



No. 1335. Vol. LVIII. No. 13.

LONDON: March 29, 1906.

Special Export Issue. 6d.

FOLLOWING our usual custom in the production of the widely-circulated Colonial issues of the *British and Colonial Printer and Stationer* we devote the first few pages to a brief summary of the history and the productions of one of the leading houses in the trades we represent. The firm we have chosen for this particular issue is that of Messrs. Kampe and Co., which is the trading style of the house that represents the British interests of Herr Karl Krause, of Leipzig, whose machines for the bookbinding, printing, papermaking, and boxmaking trades have a world-wide reputation, and whose German works employ over 1,200 workmen with an annual output of over 5,000 machines. Before proceeding to particularise the work of the London house it behoves us to say a few words as to the origin and progress of the great business that is now carried on at Leipzig, in order that readers may appreciate the important interests that are represented by Messrs. Kampe and Co. in the Metropolis.

Johann Gottfried Karl Krause was the son of a yeoman farmer, and was born on November 20th, 1823, in the Prussian village of Liemehns, close to the border of Saxony. He received his early education at the village school, and was accounted by the master one of his most intelligent and hard-working pupils. On leaving school young Krause started his working life in the establishment of a Leipzig confectioner, where he was employed as an errand boy; but being possessed of a mechanical instinct he became apprenticed to a local locksmith, where he worked hard, and soon made his way to the front. Having served the term of his apprenticeship, he went—as was the custom in those times—up and down the country, taking work in various engineering establishments, and gaining invaluable experience. He returned home after six years spent in this way, having seen about all there was that was worth seeing at the time. He arrived in Leipzig in November, 1848, and for the next few years held several responsible positions, which he fulfilled with every satisfaction. He also endeavoured to enrich his knowledge by attending evening schools and classes, etc. In 1855 he undertook the very risky task of starting in business on his own account in the manufacture of printer's chases. However, dogged perseverance and good fortune helped the energetic young man, and led him presently to open a branch of manufacture which was then in its infancy, namely, machinery for the printing, bookbinding, and stationery industries. He soon found plenty of work both in the direction of repairs and the manufacture of new

A Fine Range of Machines

A Visit to Kampe & Co.'s New Showrooms.

Some of Karl Krause Specialities at the London House.

machines, the former causing him to watch with interest the progress of the growing paper and printing industries, and to see where improvements were wanted.

His business increasing Krause removed to the Inselstrasse, and early in the seventies to the suburb of Anger-Crottendorf, where he established a foundry, which was followed in 1877 by a large factory. From that time his prosperity

to provide room for the building of the machines which are now so well known all over the world. In the early sixties his manufactures went beyond the limits of the German frontier, finding favour in Russia, Austria, Hungary, and Spain. Then in 1874 the large new factory was erected which is now occupied by the firm, and Karl Krause extended his endeavours to all engineering branches of the paper industry. These premises were

sub). Since then the business has increased by leaps and bounds, and at the present time about 1,200 hands are employed by the firm, whose reputation is world-wide. Karl Krause died on March 3rd, 1902, but the death of the founder did not affect the progress of the business, which was then in the capable hands of his partner and son-in-law, Herr Biagosch. This prosperity was, however, temporarily menaced in the beginning of December, 1903, by a fire which occurred in the night of the 3rd of that month, and destroyed half the works. But the wonderful energy and capacity for work of the chief were equal to the occasion, and overcame all difficulties, so that not a single man had to be discharged owing to the fire. In fifteen months an immense new structure arose from the ashes, replete with all modern improvements, and it is in these new works that the firm's celebrated machines are now made.

An Extensive Factory.

The principle of construction that has been adopted at the Leipzig Works provides workshops in the form of large halls with galleries running round the sides, the heavier machine tools are in-

stalled on the ground floors, and the lighter ones in the galleries. For ease in shifting heavy castings and other loads there are electric travelling cranes all over the works, and lines of railway run through the various shops, so that the handling and shifting of machines and their parts is rendered easy. The space at our disposal does not allow of our illustrating the various departments of Krause's Works, but we may note that all the departments are well shown, by half-tone reproductions of photographs, in a handsome volume published a year or two ago, on the occasion of the Jubilee of the founding of the firm, and called "The Golden Book." This handsome souvenir was a large oblong folio containing an illustrated description of the works, beautifully printed, and bound in a green and gold cover of striking design. The power is supplied by four steam engines of 870 h.p. each, and six steam boilers having a combined heating surface of 7,650 square feet, and also by a portable engine of 80 h.p. The power of these engines is transmitted to the machines throughout the whole factory by means of dynamos and electric motors. The lighting is very well effected by about 200 arc lamps, a large number of Nernst lamps, and somewhere about 2,000 incandescent lamps. Among the institutions in connection with the works there is a trained fire brigade, a sick and endowment fund, a well stocked library, a restaurant, a canteen, a choral union, etc.



Mr. Kampe in his Private Office.

increased by leaps and bounds, and the premises had to be constantly enlarged.

His Genius for Invention

quickly manifested itself in various ways, and his own ideas were very soon taken up by other factories in the same line. The works grew in importance from year to year. Customers recognised the intrinsic merit of all the machines turned out by him, the increasing demand for which necessitated the continual expansion of the business, premises having to be repeatedly deserted for larger ones in order

considerably enlarged in 1877, and again in 1880. In 1893, Krause was honoured by a visit from the King of Saxony, who inspected his factory and partook of his hospitality. A few months after this event took place, Mr. Karl Krause's son-in-law, Mr. H. Biagosch, was taken into partnership. In this same year deceased celebrated his 70th birthday, when all his friends visited him and his representatives from abroad were also present to do honour to the occasion. Next year the King of Saxony bestowed upon him the title of Commerzienrath (commercial con-

face of 7,650 square feet, and also by a portable engine of 80 h.p. The power of these engines is transmitted to the machines throughout the whole factory by means of dynamos and electric motors. The lighting is very well effected by about 200 arc lamps, a large number of Nernst lamps, and somewhere about 2,000 incandescent lamps. Among the institutions in connection with the works there is a trained fire brigade, a sick and endowment fund, a well stocked library, a restaurant, a canteen, a choral union, etc.

Some Interesting Details.

A few details of the Leipzig works may interest our readers. The machine factory has a frontage extending the whole length of two of the longest streets in Leipzig. On the right of the main entrance is the office buildings. An elegant staircase leads to the chiefs', and the technical departments, and on the third floor a large quantity of printed matter is taken charge of for advertising purposes. In the factory building, or the ground floor, is

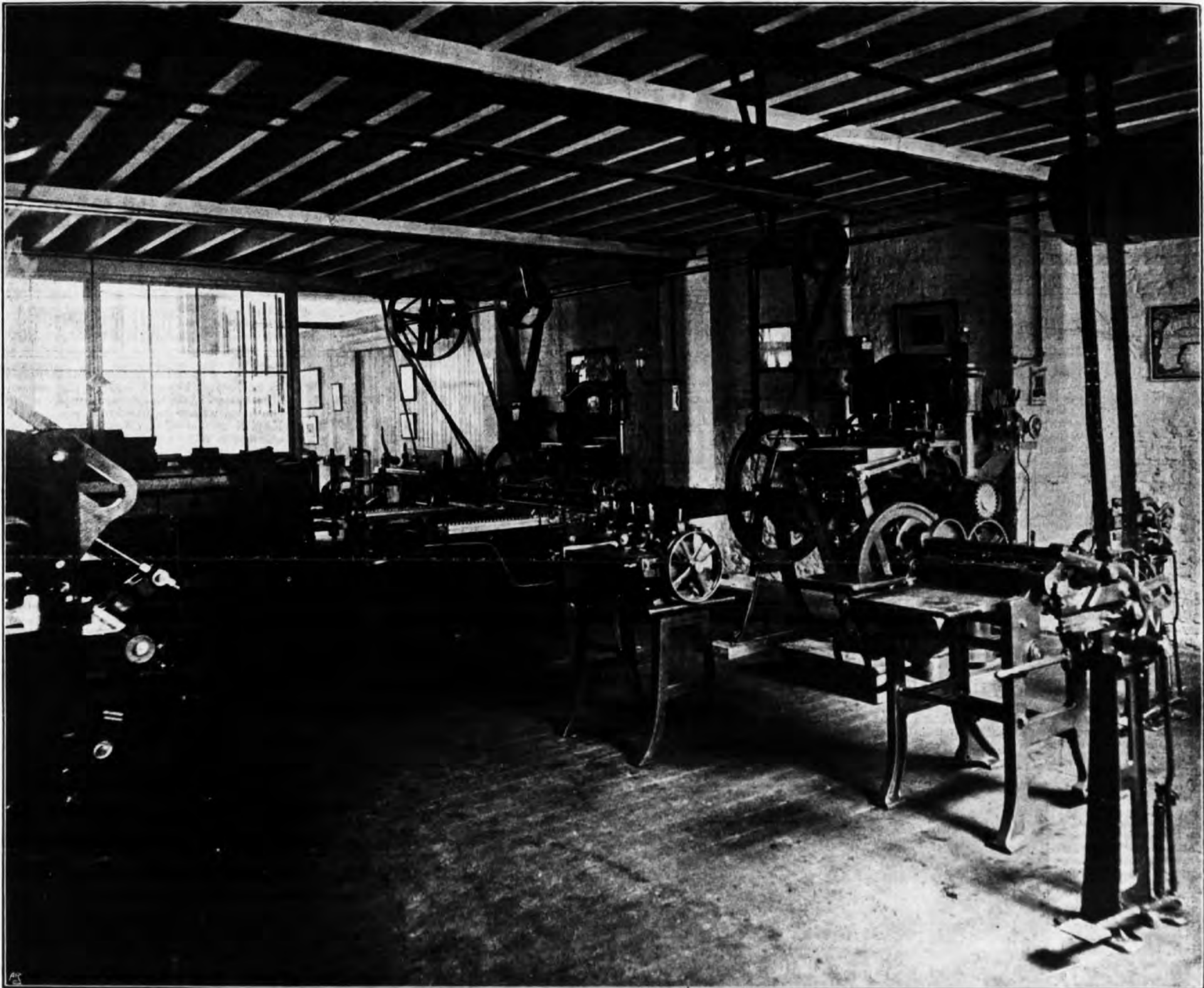
Then follow the iron furnaces, which are fitted with three boilers to supply hydraulic power, and two annealing and cleaning furnaces. The disastrous fire of December 3rd, 1903, was a warning when building the additions to the factory, in the choice of materials, and in the new works only stone, iron, and cement were used.

The London Branch.

Such then is a brief summary of the German works, from which it may be

main thoroughfare of High Holborn, and are conveniently arranged for the easy handling of the heavy machines which form the stock in the showrooms and store. The frontage has a wide goods entrance leading directly on to the ground floor, this floor containing the public and private offices of the firm at the front of the building, and, extending a considerable distance back, it has also been utilised as the principal showroom. There is an excellent light, and the various machines

every facility for its speedy repair is here at hand. Still another part of this large floor is utilised as a store for the immense wooden boxes in which the machines come over from the Leipzig works. These two large floors afford plenty of room for the firm's business and allow of a specimen of each appliance manufactured to be shown, as well as a number of machines to be kept in stock, while the firm's transit arrangements are such that any machine ordered can be had over from the



Some of Karl Krause's Machines in Messrs. Kampe and Co.'s Show Rooms.

the machine workshop, and there is another workshop in the large upper storey which extends right over the north wing. Two sheds for the storage of goods are reached through the workshops. Packing rooms are on the first and ground floors, and the loading of the goods is done direct on to the railway waggons. Passing through these departments there are immense showrooms, filled with finished machines, and further on are the showrooms of the larger and heavier machines, which are very extensive. In another wing are the planing, boring, and turning workshops, where every component part of the machines are made. To the north is a model house and model shed, one a dwelling-house for the clerks, and one a room for the materials for the smiths. Behind this comes two other houses containing the stables and hay-lofts, also a riding school, and immense coal stores. On the first floor of another building is the large cloak-rooms, on the second the show-rooms and stock room for the parts of machines, and on the third floor is the eating rooms, and further stores of machines. Between these rooms are the shower baths and warm baths, and an ambulance station. The first floor is also used as a washing room, while the second contains a reservoir of water. The north end of the west wing contains thousands of castings of the various parts of the machines. Other buildings accommodate the great grinding and polishing shops, the steel-stores, and the fire-station, with its adjoining cart houses. At the back of the front building is the huge boilers, and the stores of old machines, with further on other coal stores and raw iron stores. There is also the stores of oils and colours, the smithy with two steam hammers, one pneumatic hammer, and fifteen forges.

gathered that they are of an important character, and we now turn to the London branch, where the interests of the great firm of Karl Krause are represented by Mr. Kampe, whose connection with the Leipzig house has been long and intimate, and under whose guidance our representative was, the other day, shown round the handsome new premises which have been recently taken possession of by Messrs. Kampe and Co., at 2, Sandland-street, Red Lion-street, High Holborn, W.C. The firm of Kampe and Co.

are seen to good advantage, while a great improvement, and one that will be of importance to intending purchasers, is the electrical installation, by means of which any machine can be seen in motion, and its working tested before purchase. All of the most important of Karl Krause's machines are shown here, and Mr. Kampe informed us that several of exceptional merit, and constructed to do a class of work that is now entirely done by hand, would be shortly on view. The basement floor corresponds in size to the one

German works in a few days, actually quicker than it could sometimes be had from the provinces. A brief description of a few of the appliances on view in

Messrs. Kampe & Co.'s Showrooms

will doubtless be of interest to our readers both at home and abroad. Cutting machines for paper and book trimming form an important item in the firm's manufactures, and one, the "Four-Sided Cutting Machine," is a great labour saver, and enables work to be turned out at a very rapid rate indeed. It works entirely automatically and will cut two piles of books or magazines, or paper, placed side by side, simultaneously, on all four sides, with only one single clamping. The piles of books or paper are placed on the table side by side and clamped down by pressing down a treadle lever at the base of the machine with the foot. By means of another lever the machine is set in motion and the table revolves quite automatically after each of the four cuts, and also stops automatically after the task is completed. It will thus be seen that the attendant is enabled to keep both hands free for adjusting and holding the material after inserting it, and in fact he need not give any further attention after the two simple actions of pressing the treadle lever and starting the machine have been accomplished, but may utilise the interval, while the cutting takes place, in putting away cut piles or getting new ones ready for cutting. The machine is excellently suited for turning out work in large quantities, as the four cuts with the one clamping obviously effects such a considerable saving of time. This cutter is made in two sizes, on the smaller the minimum size that can be cut in the folded state or in book-form, is about 3½-in. by 5½-in., and the maximum about 10-in. by 18-in. The larger size has a



A Bird's-Eye View of the Krause Works at Leipzig.

was established in 1882, in premises at 76, High Holborn, which has just been vacated in favour of the Sandland-street building, and during the whole of the period which has elapsed since then have handled the Karl Krause machine specialties with much success, and introduced them into all parts of the kingdom. The new premises are situated in a central business position, close to Red Lion-square, and within a stone's throw of the

just described, and here, on a sound, firm, foundation, the very heaviest class of machinery may be put, a hatchway in the ground floor, and a crane, facilitating the lowering or hoisting of goods. A portion of the basement floor is fitted up as a repair workshop, and here the firm will execute repairs to machines of its own manufacture only. It is not often that a breakdown occurs with a Krause machine, but when such a thing does happen,

minimum of 5-in. by 6½-in., and a maximum of 18½-in. by 23½-in. Each machine is fitted with two best knives. Testimony as to the machine's speed and accuracy of working has been received from all users. There is no danger to the fingers of the operator, and the machine is supplied with an automatic gauge, which is the invention of Mr. Kampe, that rises out of the way when the work is being trimmed. A similar class of machine is the

Three-Sided Cutter,

trimming paper or books on all three sides with one clamping only. The clamping in this case requires to be done by hand, and the table has also to be turned by hand after each cut, but great speed can be attained and exact rectangular cutting is guaranteed. It is an exceedingly serviceable machine for paper mills, account book factories, and large bookbinding establishments. Note and writing paper, account, memorandum, copying and any other books manufactured in large quantities may be cut in piles up to 5½-in. high. The Three-Sided Cutter is made in five different sizes, the smallest taking work in a minimum of 2½-in. by 3½-in., and a maximum of 7½-in. by 9½-in. In the largest size the minimum is 11½-in. by 19½-in., and the maximum 19½-in. by 23-in. With each machine there are included two knives and four different sizes of clamping plates. One advantage of using cutters of the class mentioned is that even when hundreds and thousands of books, or piles of paper are cut, each one will be exactly the same size, and by the use of size plates repeats can always be made, even years after, exactly as before.

A Powerful Guillotine.

In the guillotine class of machines the "Rapid" merits attention. It is an extremely strong appliance, worked by power, and has automatic clamp and self adjustment for all heights. The ease with which the gauge is manipulated is a special feature of the machine, which is very substantially built. It is driven by

versa. Hence clamping, cutting and unclamping is effected automatically, without any interference on the part of the attendant, in exactly the same time as otherwise required for cutting only. The machine makes about twenty cuts per minute, and in the largest size cuts sheets up to 70-in. in length by 4½-in. high. It is fitted with all improvements, such as the patent friction coupling arrangement for automatic stopping when the knife is at its highest position, arrangement for

the small but useful cutter that can be attached to a work bench. But one other have we space to mention here, but it deserves a word or two of description for its general usefulness in paper mills, or large establishments where trimming in the ream is done. This is the

Ream Trimming Machine

or, as it is sometimes called the "Dead Square" cutter. This machine cuts up piles of paper, on the four sides, to any

first cut the table is withdrawn and turned round; then the second, third, and fourth cuts are made in the same manner. The handling is most simple, and even the largest sheets can be trimmed with greater ease, considerably quicker, and more accurately, than on any ordinary machine. The adjustment for different sizes can be made almost instantly. A very clever attachment enables the operator to cut exactly in half the material which has been trimmed. The cutter is arranged for power, with friction clutch, and is made in four sizes. It is very strongly built, and is most accurately finished, while its work is turned out in the most perfect manner.

Some Krause Blocking Presses.

In the manufacture of blocking presses the firm of Karl Krause stands pre-eminent, and every possible requirement of the gold blocker or embosser is met in the extensive range of presses, from the small hand press to the immense power press with several platens, and all of the best design, construction, and workmanship. There is a fine series of the "Rock" embossing presses, to one or two of which we may call attention, and the first to be noted is the "Rock" Press with revolving table. Before entering into details about this machine, we may take a look back to the action of former presses, for all progress in technics can only be well judged by comparison with the hitherto attained methods. The presses of the old style had only one table; therefore the workman was obliged to wait during a great part of his time—as long as an impression lasted. In order to obviate this great loss of time, the method of enabling him to serve a second table was introduced, and Messrs. Krause constructed a rapid blocking press with two tables, a combination of two simple presses, combined in such a way that alternately one table was under pressure, and one was open ready for placing the work. Thus the operator could prepare one table for the impression while the other one was under pressure.



The Late Karl Krause.



Henrich Biagosch.

throwing out of gear in any position, cut indicator, adjustable table, and parallel adjustment to ensure correct position of the knives after being ground. Each machine is fitted with two best knives, two cutting sticks, spanner, oil can, and lubricating plugs. There is also an arrange-

ment for accelerating and exactly adjusting the movement of the back gauge according to the width of material to be cut. A very extensive range of paper cutters is handled by Messrs. Kampe and Co., whose catalogue shows illustrations of over thirty different designs of machines, suited to all the purposes of the papermaker, printer, bookbinder, manufacturing stationer, or boxmaker, and ranging from the 70-in. "Rapid" down to



A Corner of Messrs. Kampe and Co.'s Show Rooms.

belt and endless screw and worm gear, without any further cogwheels, thus ensuring noiseless action even when working at the highest speed. The clamping is very powerful, satisfying even the most exacting requirements, and the clamp acts quite automatically for all heights. For instance, there is absolutely no need for adjustment if, after cutting two or three sheets, a pile of some four or five inches high is to be cut, or vice

ment for accelerating and exactly adjusting the movement of the back gauge according to the width of material to be cut. A very extensive range of paper cutters is handled by Messrs. Kampe and Co., whose catalogue shows illustrations of over thirty different designs of machines, suited to all the purposes of the papermaker, printer, bookbinder, manufacturing stationer, or boxmaker, and ranging from the 70-in. "Rapid" down to

down by a hand-wheel in the centre. (This pressure is only used to prevent shifting of the paper whilst turning the bed, and is not released until all the four sides have been cut.) The special pressure for cutting purposes is, however, effected by an automatic self-clamping arrangement. After adjustment, the pile of paper is pushed forward to the gauges, and the machine is started. Automatic clamping and cutting then take place. After the

This machine was followed by another construction which was also furnished with two tables, both opening out in front, and so arranged that they were going alternately under the pressure-plate on rails in oblique lines from their position, on the right and left in front of the machine, and this press too worked in the same manner as the double blocking press. Though the last two presses could be worked rapidly, it had a disadvantage,

by the construction. As the two tables were arranged one beside the other, the attendant was forced to feed at the left and right hands alternately, and on the other hand he often had to change his position, movements by which the output was decreased a good deal, and which annulled the expected advantage of double presses when large sizes had to be worked. Karl Krause was induced by these disadvan-

crosshead, and is capable of giving an enormous pressure, so that the heaviest class of work may be undertaken on it. There is a table on each side, which travels out and in under the impression platen, and on which the work is laid. Each table works automatically and independently, and can therefore be stopped or started quite independently of its fellow, while, by means of a fric-

not unlike other appliances of this class made by the same firm, the principal difference being the inking arrangements, the duct being constructed to hold a number of colours, and the rollers adapted to take these colours and convey them to the work. To effect this the rollers are cut into sections corresponding to the width of colour that is desired, and between each section there is a dividing disc of wood that prevents the colours commingling. The ink distribution is perfect, and the means employed ensure a thorough inking of the die surfaces, while a dead register is secured. In fact, the whole press is built so as to fit it for complying with the most exacting requirements of the best class of colour work, and, with the exception of feeding, to dispense entirely with handwork, and it is equally well adapted for embossing or relief printing in one or many colours, the embossing and printing being done simultaneously. As to the work done it includes book covers, embossed show-cards, advertisement cards, Christmas and greeting cards, etc., all of which can be done by one impression on the machine in a style that in the ordinary way would involve from two to half-a-dozen printings. Such a machine places a power of turning out good and attractive work in the hands of the bookbinder, printer, or boxmaker, that should be appreciated. Other powerful presses are the "Non Plus Ultra," which works with four tables, attended by two persons; the "Blitzpress," capable of stamping 34 by 26 inches at one impression, under a pressure of 400 tons. In fact there is no requirement in the way of blocking or



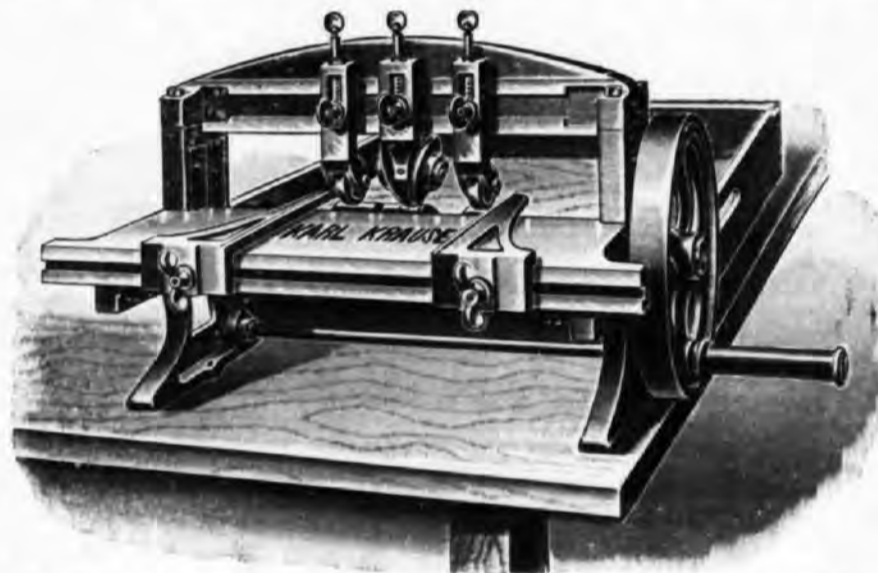
An Improved Index Cutting Machine.



The "Rapid" Guillotine Cutting Machine.

tages to pay special attention to the better construction of his blocking presses, which ultimately enabled him to turn out the press now under notice. This press differs most materially from the above-mentioned machines, by its simplicity and solidity. Its peculiarity is that both tables are combined in one round one, on which both blocking surfaces are arranged diametrically at equal distances from the centre. By turning the table round a pivot, both pressing surfaces come alternately under the pressing platen, and as they are arranged on the same table they always change their position at the same time. The rotation of the table, going on periodically in the same direction, is managed by a screw and cog-wheel gearing automatically driven from the main shaft. The press works in the following manner: The one part of the table being out, is fed with the material to be embossed, after which the table turns round a segment of 180 degs., and the prepared blocking surface comes under pressure, while the other part of table also moves round, stopping on same spot which the first has just left. The time taken up with the first impression is used by the operator for preparing for the second one. As these functions are repeated at equal intervals, the title of "Revolving Table" is correctly given for this arrangement, and in this way from 20 to 30 impressions per minute may be obtained, each giving to the work the highest pressure. This blocking press has been a great success, and the improvement will be welcomed by bookbinders and gold blockers, especially as the machine can also be furnished with a self-inking arrangement. Another useful appliance is the "Rock" Twin Gold-Blocking and Embossing Press No. 5. This machine is made double, so that two workers can be employed at one time, and thus turn out an increased quantity of work. The press is strongly built, with massive pillars and

tion clutch, the machine can, in case of accident, be immediately stopped by either of the operators. It is very silent in its working, and has but little vibration. This machine is made in four sizes, to block from 13 by 17½ inches up to 19½ by 23½ inches, respectively. The "Rock" series is a large one, and embraces power machines in various styles and sizes, and an excellent range of hand blockers of



Bending, Grooving, and Scoring Machine, specially suitable for Bending Greeting Cards, Menus, &c.

strong construction, fitted with the latest improvements.

The "Cameo" Press.

The "Cameo" Embossing and Inking Press is intended for embossing and inking at one impression, on such work as showcards, book and catalogue covers, and the like. In general appearance it is

embossing that cannot be met by one or other of the presses offered by Messrs. Kampe and Co.

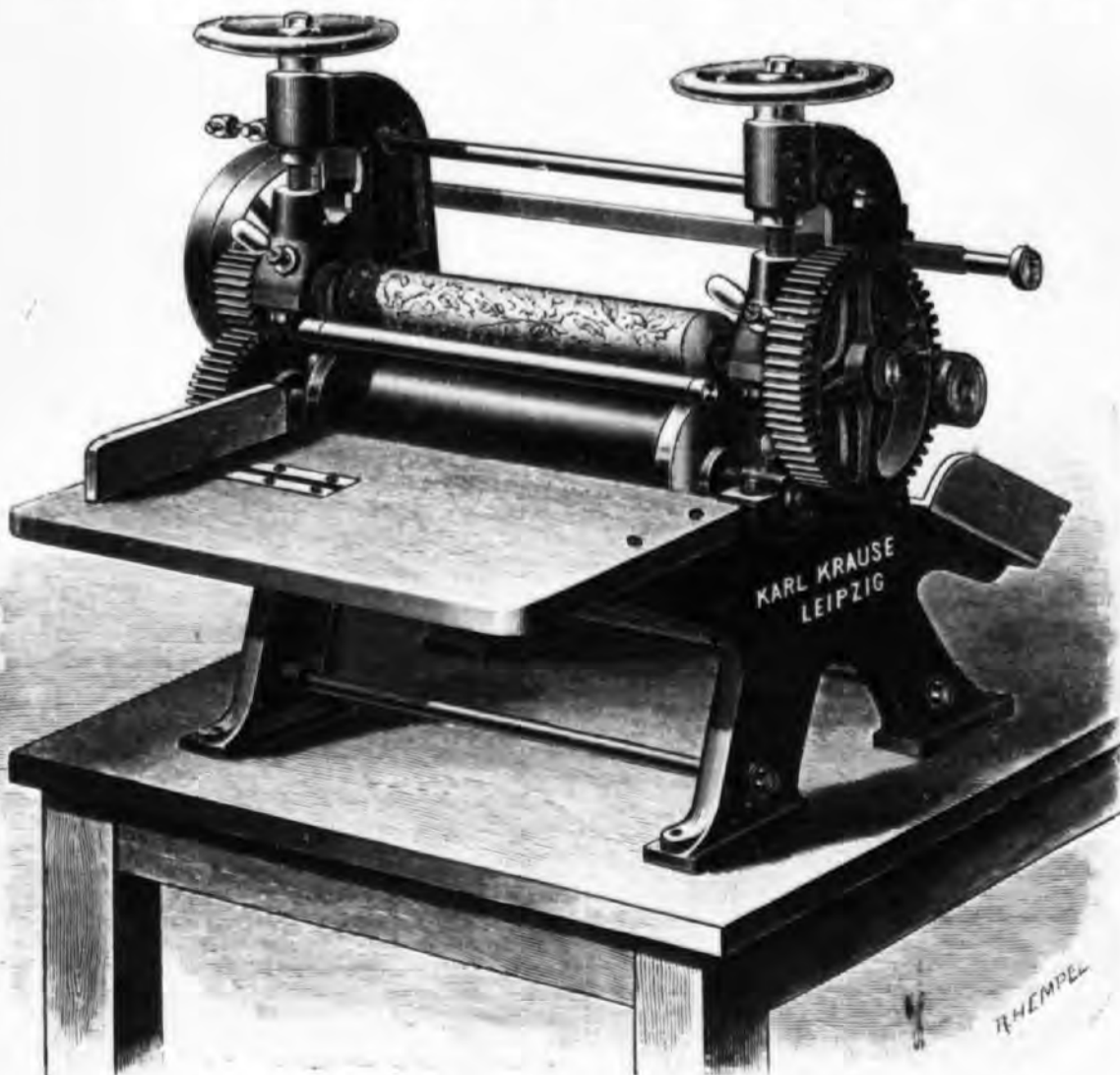
Cardboard Working Machines.

The machines and appliances used by bookbinders, boxmakers, and others for cutting, scoring, bending, and otherwise manipulating card and strawboard, as made by the Leipzig firm, and shown at the Sandland-street show-rooms, are very varied in their forms and construction, and embody the most up-to-date improvements for speed and labour saving. A

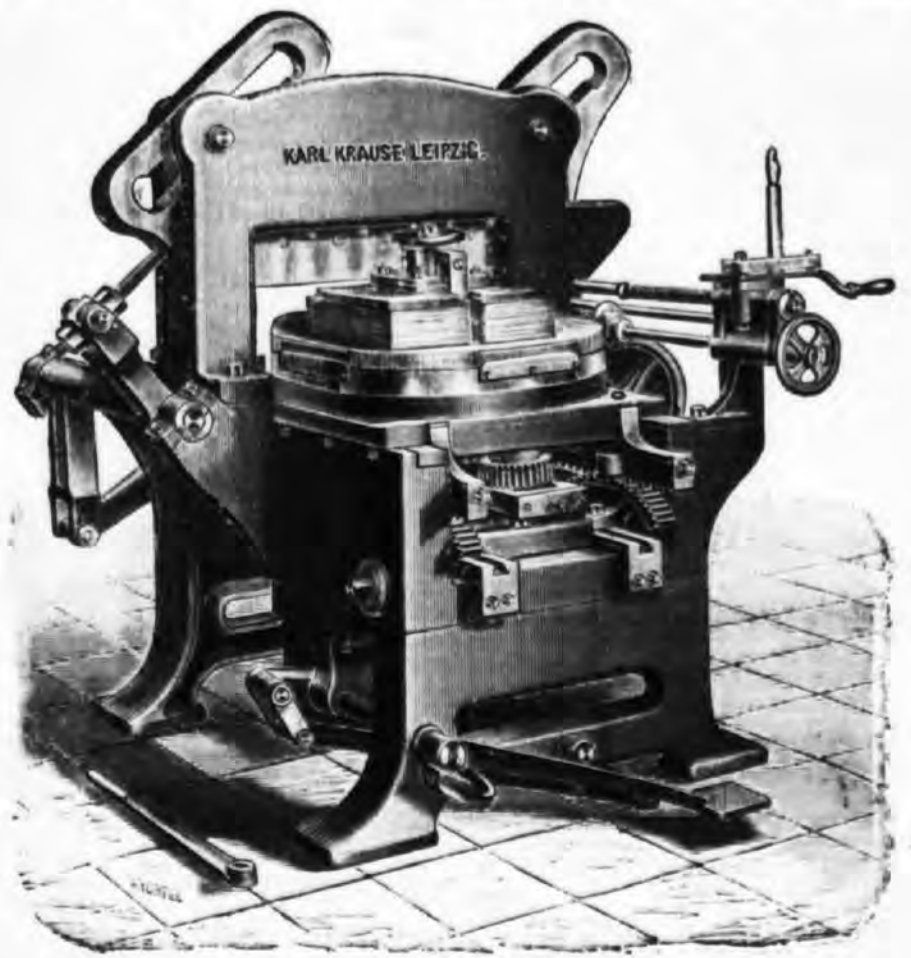
new "Rotary Bender" was on view in the showroom at the time of our visit which is a great improvement on preceding appliances. It takes the place of a scoring machine, but instead of partially cutting the board, and so weakening it, it creases along the line required and allows of the board being bent over to right angles, or further, without detracting from its strength. It does not break or disfigure the boards, and it may be used for the finest or the roughest cards with equally good results. There is also a "Vertical Bending Machine" that produces an excellent bend, and may be used for any kind of pulp boards, strawboards, or card, up to a medium thickness. It is easily adjustable for different thicknesses of material, and the change from one grade of work to another is very easily effected. Used as a power machine it is provided with friction coupling, and is arranged to stop automatically after each bend, or by a simple adjustment it may be run continuously. The starting is effected by a foot lever. This bender can be arranged for foot power if required, but not for power and treadle combined. It is made in two sizes, taking 29½-in. and 41½-in. respectively. Another bending machine will take the very heaviest material on the market and manipulate it with ease. Rotary card cutters are plentiful, and are made to suit all requirements. One fine machine is especially suitable for cutting and trimming post cards that are printed in sheets. It cuts clean and regularly, delivers the cards into trays, and throws the waste strips aside. The cutting is done by rotary knives, working in pairs, and gauges are provided by means of which the utmost exactitude of size may be adjusted. There is another rotary cutter that may be here noticed, as it is made to be fastened to a bench or table, and is listed at a moderate price, thus rendering it easy of purchase by even the smallest manufacturers. It is called the "Small Rotary Bending, Grooving, and Scoring Machine, and is especially suited for the bending of menus, dance cards, programmes, etc., as the bending done on it does not weaken the cards, and there is therefore no liability to breaking away at the folds, as is sometimes the case when they are scored too deeply. This machine will take 21½-in. between gauges, it is arranged for either hand or power, and is in all respects a very handy appliance for all the smaller classes of work.

Some Folding Machines.

Among the folding machines several are worth noting. One especially is so



Embossing and Graining Machine, for Picture Postcards &c.



Double Three-Sided Trimming Machine.

compact and accurate in its work that it should certainly meet with the appreciation of the trade in general. It is a "Section Folding Machine," for books, pamphlets, note papers, etc., and it occupies but a few feet of floor space. The paper to be folded is laid on a flat board or table, and is fed down a sloping board to gauges, exactly as in a printing machine, when it is struck down by the folding knife, and delivered, folded, into a box beneath the feed board. If required an automatic counter can be placed on the folder by means of which a bell is rung after every hundred folds have been

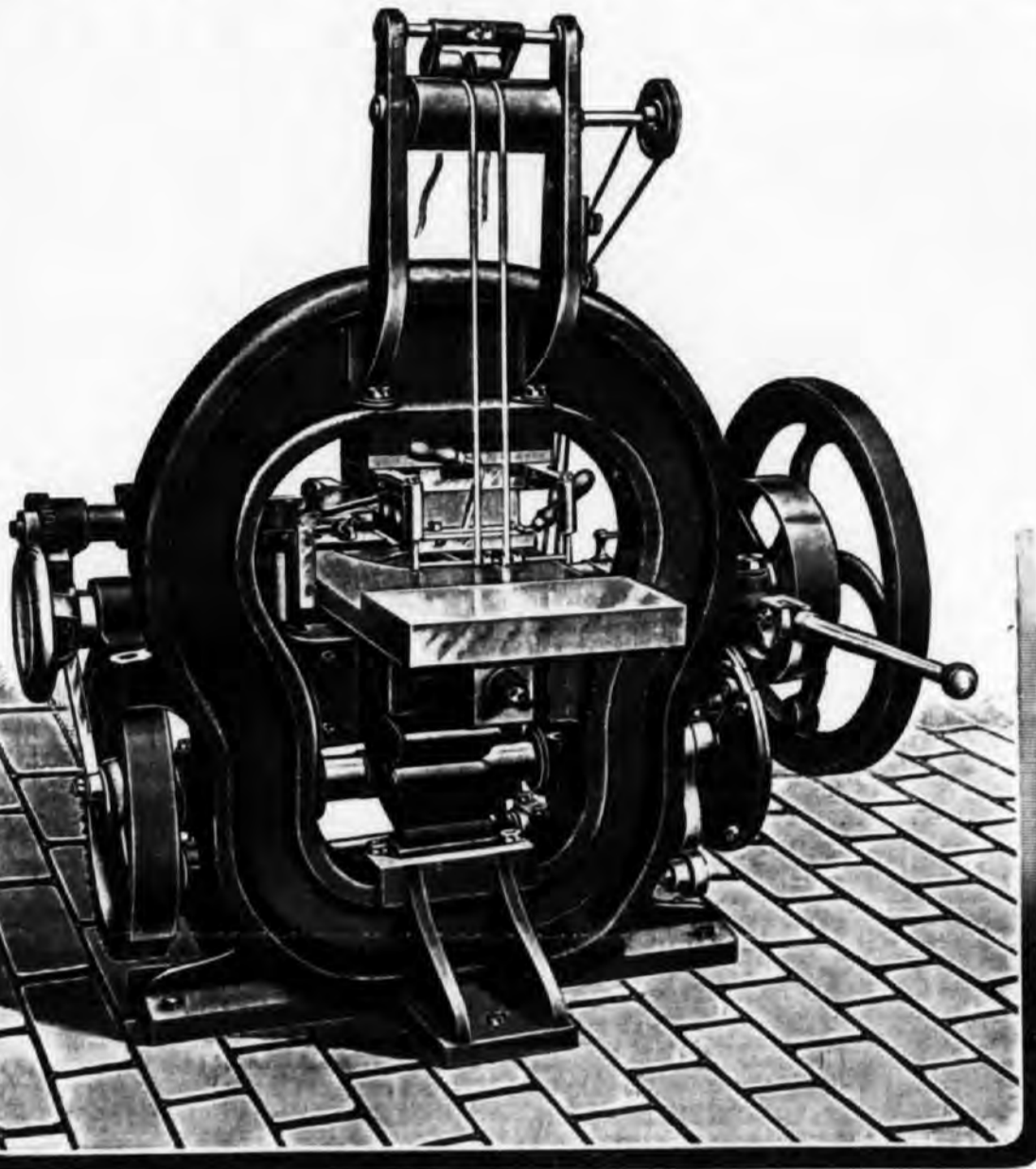
so avoiding accidents. The self-adjusting automatic sheet-straighteners are of great advantage, as they place the sheets in the correct position before the first fold takes place, thus ensuring proper feeding and true folding. The fluted creasing rollers being also self-adjusting, adapt themselves automatically to the various thicknesses of paper. One of the chief advantages of these folders is the unique automatic arrangement by which the tapes adjust themselves independently of each other, and are consequently always at the right tension under any condition, thus doing away with stretching or

vertising matter for forwarding by post, and a variety of other styles. Several of these excellent folders may be seen in Messrs. Kampe and Co.'s showrooms and they are well worth close inspection. Among the

Miscellaneous Machinery.

There are many appliances that we should have liked to have brought to the notice of our readers, but our space is limited, and so we must content ourselves with a brief word or two on a few of the newer of the machines in the Sandland-street showrooms. In the useful series of nipping presses there is a new style on view of a very powerful character, and a great improvement upon the old method

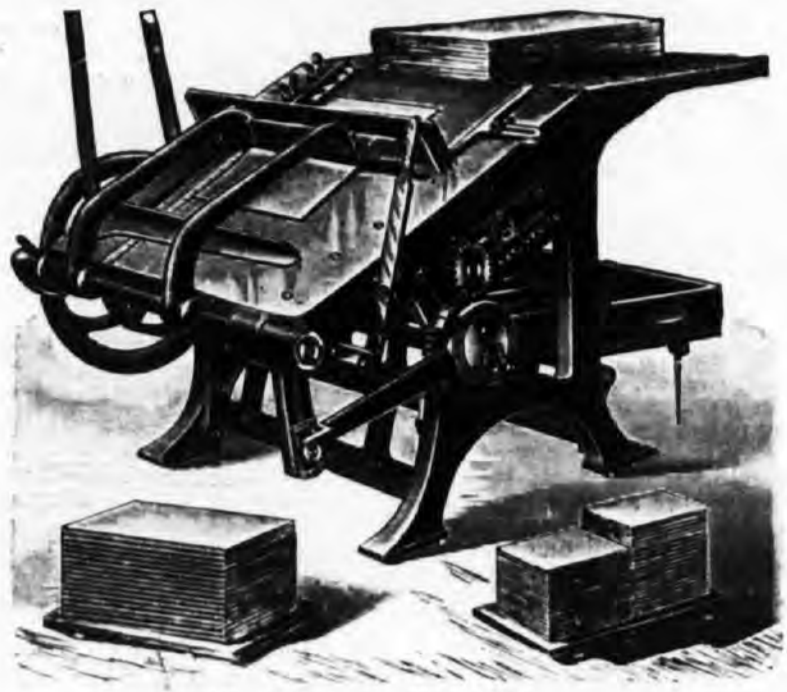
into two sections, and perforates only half-way across the sheet, a very great advantage in some classes of work, and entirely obviating the taking out of pins, with their consequently frequent breaking. All the working parts are adjustable by set screws, and the slightest wear can be taken up by the operator. The machine is made in three sizes, to perforate 20, 24, and 30 inches. Other machines on show are Rotary Bevelers for hand or power, Cloth Cover Rubbing Machines, Screw Nipping Presses, Bundling and Signature Presses, Corner Rounding Machines, Wire and Thread Stitchers, Paging Machines, Punching and Eyeletting Machines, Ruling Machines, and other appliances.



The New Blocking Press that applies Gold Leaf, &c., Automatically.

made. It is practically noiseless in action, is easily and speedily fed, and is made in three sizes, taking respectively 17½-in. by 31½-in., 26½ in. by 31½-in., and 31½-in. by 31½-in. The "Book Folding Machines," are of a high-class and combine simplicity of construction and accurate folding with many novel features which must recommend themselves to intending purchasers. The feeding arrangement is admirable, the operator's hands being always entirely away from the knife, and

stitching. The machines are made to work from one to five folds, with automatic gauges or points, and the series embraces machines for bookwork; for newspapers; combined for book and news, including, when required, simultaneous thread stitching or cutting and pasting arrangements; duplex machines for two layers-on; section folding machines for account book makers, wholesale stationers, etc.; miniature folding machines for pocket calendars, etc.; machines for folding ad-



The New Section Folder.

of screw pressure. It is called the "Lever Nipping Press," and is of strong build; the upper plate can be adjusted very quickly to admit any size within the capacity of the press, thus doing away with packing boards, and the pressure is put on instantly by means of a lever, which through a toggle joint exercises an enormous force. When the lever is pulled down and the pressure applied it may be withdrawn and taken out of the way, and the material left under pressure for as long as desired. This useful press is made in two sizes, taking respectively 19½-in. by 21½-in., and 25½-in. by 29½-in. Another appliance introduced is the "Back Rounding Machine," for bookbinders, which does away with the troublesome rounding of book backs by hammer, and does the work in half the time occupied by the old method, while giving superior results. It is very useful for account book work and may be used for the so-called "spring back." Many of the leading firms in the binding trade use this machine and express themselves as thoroughly satisfied with the results of its working. There are other backing machines made by the firm, but for particulars we must refer readers to the catalogues. Among the perforating machines there is one that is of a very useful character. It will perforate the full width of the bar, but by a simple movement of a lever it is divided

Some Coming Machines.

In addition to the Machines already mentioned, Mr. Kampe informed us that he will shortly have on view a complete range of Envelope Making Machines of the newest construction, and capable of supplying the demand for any class of manufactured envelopes, and in any size. Besides these machines there will be a Blocking Press that will revolutionise the present method of applying the gold, as it will be automatically fed from a web of the metal, and thus do away with the present system of laying it on by hand. This appliance will be specially suited for blocking on paper, ribbons, cloth, book covers, and other work, and to facilitate its introduction the firm has arranged to stock and sell the metal in web form to users.

A Handsome Catalogue.

Containing illustrated descriptions of the whole of the firm's machines has been got ready, and it is well worth perusal. Running to some 350 pages it gives one some idea of the enormous number of appliances that are manufactured at the Leipzig works, and sold in Britain by Messrs. Kampe and Co., and those desirous of knowing for themselves how well their requirements may be met by the machines it describes should obtain a copy.

Special Lines for the Colonies.

Some High-class Christmas Card Blanks.

Colonial printers and shippers on the look-out for something good in Christmas card blanks for the 1906-7 season should not miss the new collection that Messrs. Dorendorff and Co. (5 and 7, Worship-street, E.C.) have specially prepared at this conveniently early date for them. They are of a refined artistic character, the thorough good quality and good taste shown throughout being a more noticeable feature than a striving after quantity, yet there is a well diversified variety catering to all tastes and requirements, and the general range of prices is cheap. This refinement is a characteristic of this firm's productions that we have before drawn attention to in our Special Colonial Issues, and it has been evidently realised and appreciated in our Colonial markets, for Messrs. Dorendorff's export trade in these card lines is growing in a very encouraging way, last year—we are informed by the energetic manager, Mr. Stockman—witnessing a considerably increased business in the export of blank cards.

The sample book now ready is the well-known "Diamond" Series of Christmas Card Blanks, and the collection starts at 30s. per 100, and ranges through all the usual prices down to 5s. per 100. It

begins with some samples of some of the most delightful little hand-painted views on dainty white folders with plate sunk panels, and passes on to more complex designs, decorated and arranged with a happily judicious taste. Little chromo views of peaceful old-fashioned English scenery accompany little embossed floral sprays, bearing evidences of most careful and tasteful designing. And the choice of flowers depicted is by no means a narrow one, embracing some of the least conventional wild and cultivated blooms, as well as the ever-popular old favourites, the English snowdrop, the forget-me-not, the pansy and the wild Highland heather. Some of the designs look very chaste on parchment leaflets, and there is a wide selection of delicately tinted cards. Chromo or monochrom head-studies are the subject of another different class of designs, and the embossed decoration, whether in the shape of borders, fancy embellishments, or lettering is always most choice and effective. Then another variety is the cut-out centres of some parchments, taking various fanciful and pretty shapes, and framing in a most pleasing manner the pretty chromo or monochrom views that are mounted on the first leaf of the inset. A charming conceit, too, is shown in the celluloid numbers, where a soft creamy celluloid outside is delicately tinted by the bright lines of variously coloured insets showing through. Quite different to the foregoing is a card with surface entirely of silver, and having a fancy shaped cut-out

centre with embossed rococo edges, and revealing on the inset a pretty little chromo view with fine effect. A motto embossed in large artistic gold letters within a panel with gold stamped border looks very effective on a white parchment with artistic silver decoration. Then there are white parchments with white surface patterns having quite a dainty lace effect, on which naturally coloured flower designs look very chaste. There are also some highly-polished celluloids with tinted insets, and these, too, look very nice with their conventionalised floral decorations. Scottish sentiment is not forgotten in this representative little book, there being some tastefully conceived designs introducing sprigs of heather embossed in natural colours, and tartan silk ribbon to secure them at the back. Beautifully finished Masonic designs is the subject of another class of greeting card of special character. The bookish person is thought of in a quaint miniature design of an old leather-bound volume with inkstand and quill resting on the top, the appropriately expressed sentiment, "A Volume of good wishes," accompanying it. For simple daintiness the little grey cards with white embossed designs of snowdrops on them, and conveying the brief but expressive motto "Best Wishes," would be hard to beat, and they are among the 10s. per 100 cards. A semi-mourning greeting card of chaste design adds to the completeness of the collection, and quite out of the usual run is a selection of large plain

white rough-surface cards with fly-leaf and deckled edges, the front leaf merely having a large plate-sunk panel with a miniature ivy design in the top left-hand corner, embossed in gold or in green. To conclude, it may be added that there is a wide variety of white and tinted silk ribbon or cord with tassels.

Messrs. Dorendorff have also ready a new selection of wedding cards, embodying all manner of chaste and dainty designing in white and silver embossing and stamping. These run from about 8s. 6d. to 2s. 6d. per 100, and every conceivable taste, in this comparatively restricted connection, from the severely plain to the artistically decorative and ingeniously folded, seems to have been catered for in this excellent assortment.

A capital selection of business cards in great variety and admirable quality is also handled. The "Japanese Border" cards with deckled edges in red, green and blue are a very effective line, boxed in 101's at from 1s. for thirds to 1s. 10d. for large 8vo. court. The "Doric" series of grained and panelled ivory and tinted cards, at 1s. 3d. per 100 for thirds to 2s. 6d. per 100 for large 8vo. court is another attractive line. And particularly pretty are the variously-tinted "Floral" embossed border cards with raised centre, these ranging in price from 6s. per 1,000 for thirds (boxed in 101's) to 11s. per 1,000 for large 8vo. court.

A good discount is allowed, and Colonial customers will undoubtedly find their wants well attended to here.

Strong, Hanbury and Co., Ltd., 196-7, Upper Thames Street, LONDON, E.C.

Telegraphic & Cable Address: "PROMPTLY," London. Telephone No. 1924 Bank.

HOME AND COLONIAL GOVERNMENT AND RAILWAY CONTRACTORS

For the Wholesale Supply of all Varieties of PAPER:

News, in Reams and Reels. White, Toned and Coloured Printings. White and Coloured Blottings. White, Coloured and Waxed Tissues. Litho, Music, Writing, Tinfoil, Brown, M.G. Caps. Small Hands. Vegetable Parchment. Imitation Parchment. Waterproof. Greaseproof and Packing Papers.—Over a Thousand Tons are always on Sale.

Sole Proprietors of the Celebrated "COLINDIA" SERIES OF PAPERS. CARDS AND CARDBOARDS.

If you have not had Samples of our "Colindia" Series of Papers, kindly send post card and they will be forwarded by return.

Siderography Up-to-Date.

The first question that will be asked on reading the above heading is, "What is Siderography?" We believe strict grammarians define it as "writing by iron or steel." Though we do not suggest that clerks using steel pens would be styled "siderographers." Writing and printing are now a days considered practically synonymous, thus photographs are really "prints by the sun," not "writings by the sun." Strictly speaking then siderography means printing by steel, and this definition is of importance, for by it such processes as printing from electros taken from steel plates are ruled outside the limits of true siderography. The name was given by the founder of a firm of engravers many years ago to certain productions, viz., engravings printed by hand from hardened steel plates, and to such productions alone is the name properly applicable: being of the nature of a trade name, according to a principle well recognised in the Law Courts, and it is remarkable that the firm of Perkins, Bacon and Co., Limited, is still the only house of any standing in this country that produces siderography in its strict sense. A few other establishments for cheapness or speed, or to fit in with their particular system of production, print their so called "plate prints" from electrotypes or other media, or by automatic machines, the result being much inferior in quality; but it is not siderography.

And now the second question may be asked "What is up-to-date siderography?" As well might we ask for up-to-date painting or sculpture on the ground of improvements in pigments, canvas or chisels! True siderography is an art, like painting or engraving, and when we can produce work equal to Titian's or Albert Durer's masterpieces by machinery, it will be time enough to ask for up-to-date siderography. And why is the art of siderography now practically the same as when introduced into England by Jacob Perkins over 80 years ago? Because the eye and hand of the printer are the necessary means of producing the artistic result desired, just as the eye and hand of the painter is necessary to give the true artistic presentment no photograph can produce. It is supposed to require seven years for a machine minder to learn to "make ready" properly; sometimes sad to say, he never learns how to do so, and dies an inefficient workman; some compositors never rise above "bricklaying;" some of the most artistic founts may be in the cases, but they are useless in the hands of the tasteless typelifter. Out of the gutter may come a Phil May, while another man may spend years in learning to "paint," and then his candid friends will tell him he cannot even draw. A few minutes examination of the process of copper and steel plate printing will show the futility of attempting by machines to produce the effects which only intelligence of eye and hands can realise.

Take an engraved view with its variations of light and shade carefully shown by the artist; or a banknote with vignettes, portrait, whiteline, or other work in varying strengths and depths of cutting or etching; the printer, who inks the plate with a sort of dabbing, punching, and wriggling motion, punches more ink into the deep cut parts than in those lighter; in wiping he uses his artistic skill in wiping off more or less ink from different parts of the plate, according to the requirements of the picture; in fact he "makes ready" every time he inks and wipes the plate, and so produces the beautiful effects of high lights and deep shades peculiar to "taille douce," or intaglio engraving, and which no machine which inks and wipes automatically can imitate. Anyone comparing a so-called "plate" print produced by an automatic machine, with a hand printed one, can see the difference at once. There is a deplorable flatness about the machine print, almost bringing it down to the level of litho work, due to the necessity of the various kinds of engraving being brought to one level, the machine not being capable, like the hand, of giving varying inking and wiping to the different parts of the same plate.

At least 50 years ago the firm above referred to, who introduced siderography into this country, spent much time and a small fortune in endeavouring to perfect a machine to supersede hand work, but the little twist of the human hand could not be imitated, and so the machine was abandoned. The Hoe and Mulligan power presses invented in America are however on a different footing, as the final wiping is done by hand, and so the work produced is very nearly, but not quite, equal to hand work, their chief defect being in the deficiency of inking power.

The Americans are considered, and no doubt rightly so, to be the most up-to-date nation on earth. What is their "up-to-date" siderography? Practically the same as in Jacob Perkins' time, 80 years ago, with some improvements in the hardening process, and in some cases the use of the Hoe presses, in which human

COLOR AND LETTERPRESS
LITHO GENERAL PRINTING
MODERN METHODS. MODERN PLANT
Quick Despatch. Punctuality.
LOWEST PRICES AND GOOD WORK.
ESTIMATES FREE BY RETURN.
CORRESPONDENCE INVITED.
TAYLOR BROS., THE TRADE PRINTERS, LEEDS.

agency has still to be employed in the final wiping of the plate. Requiring for their banknote system the best class of work, they know better than to print from electros on automatic machines, and consequently their siderography is known all over the world as inferior to none, and they ask and obtain high prices for their productions; and as is often the case, the supply of really good and artistic work creates a demand, a fact which British printers should remember.

At this point a few words as to the preparation of steel plates may not be amiss. As practised by the firm whose work we have had the pleasure of examining, one of the chief features, and one tending to ensure great security against imitation, is the absolute identity

several hundred plates without wear, a succession of plates can be provided, all having the original engraving in exactly the same strength and position, and as a hardened steel plate will last very much longer than an electro, even when the latter is steel faced, it is not only cheaper and quicker to produce, but gives a much more economical printing surface, besides giving clearer and stronger prints. This, then, is siderography up-to-date.

Our readers, being mostly letterpress printers and stationers, will be saying, "This is very instructive, but how does it interest us?" In this way. Most of our readers, at some time or other, especially those doing any company work, have the opportunity of obtaining, or at least of estimating for, what is generally

visiting cards, or a few grocers' billheads. Steel engraving is so expensive, it may be said. Good things generally are. The firm whose work we are discussing once printed 1,000,000 sheets of the old penny postage stamps from one steel plate, the last impression being practically as clear and sharp as the first. They thought they would like to keep the 1,000,001th impression, and the Government allowed them to do so, and they have it framed in their office as a unique testimonial to the powers of siderography. Runs of half or three-quarters of a million from one plate were quite a common occurrence at the old "Sidero" house, as it was called in those days. Allowing for the cost of the original die and the transferring to the printing plates, the actual cost of the dies and plates used on the job works out at about 1/10th of one penny per 1,000 stamps—we much doubt whether postage stamp printers could produce electros for surface printed stamps as cheaply as this!

Steel engraving is so slow, it may be said again. Good work requires proper time for its execution. An electro for plate printing often requires three weeks in the batteries before it is thick enough for the purpose; in that time several solid steel plates could be laid down, and ready for printing, so siderography has not much to fear in the matter of speed competition. In durability also it scores: the jubilee of a New South Wales postage stamp plate made by the firm has just been celebrated at Sydney, and stamps were printed from the 50 year old plate in the banqueting hall during the evening. But for runs of a few hundreds the process is, of course, expensive, though even in such cases it can compete with surface printing, in which the first cost of engraving the original dies is heavy.

After obtaining from the present head of the firm—a relative of the Heath who, with Jacob Perkins and an engraver named Fairman, founded the business in 1819—the interesting and instructive information on this little known subject we have endeavoured to convey to our readers, we made the usual request for specimens, but were met with a polite refusal. "It is our invariable rule," Mr. Heath stated, "to decline to show samples which disclose the names of our trade customers without their permission, as our reputation for keeping strict faith would be imperilled thereby," and we had to admit that this was right, as the essence of trade work of this character is secrecy. So long as the firm can obtain a moderate profit on its work, they are not concerned as to the name in the imprint, be it that of the stationer in the next street, or of a printer at the Antipodes. One exception Mr. Heath consented to make, that was the name of Her late Majesty Queen Victoria, and so we have the pleasure of showing our readers an absolutely unique curiosity—a process reproduction (about one-third original size) of the 1,000,001th impression from the hardened steel plate of the old penny postage stamp issue of 1854-79 (Humphrey's re-touched die) which we have previously referred to.

Mr. Heath also alluded to several new issues of one and two-colour postage stamps, notices of which, he stated, would in a few weeks appear in the philatelic journals, the customers (in the trade) for whom the work is being executed being so pleased with the results, that they desired to mark their appreciation of the ability and attention shown by the firm by a public recognition of the merits of the stamps.

We conclude our notice of Siderography by recommending any of our readers who are interested, or who think they can do profitable business in this line, to communicate with Mr. Heath, or his able co-director, Mr. Rynd, at the address given above, when they will be afforded all information they may require on the subject, and we may add that, Messrs. Perkins, Bacon and Co., having relinquished letterpress printing on their removal from Fleet-street to their fine new works at Southwark, ordinary printers and stationers have no ground for regarding them otherwise than as their best friends.

ESTABLISHED 1840.

JACOBS BROTHERS & Co.

Are the first house in the trade for:

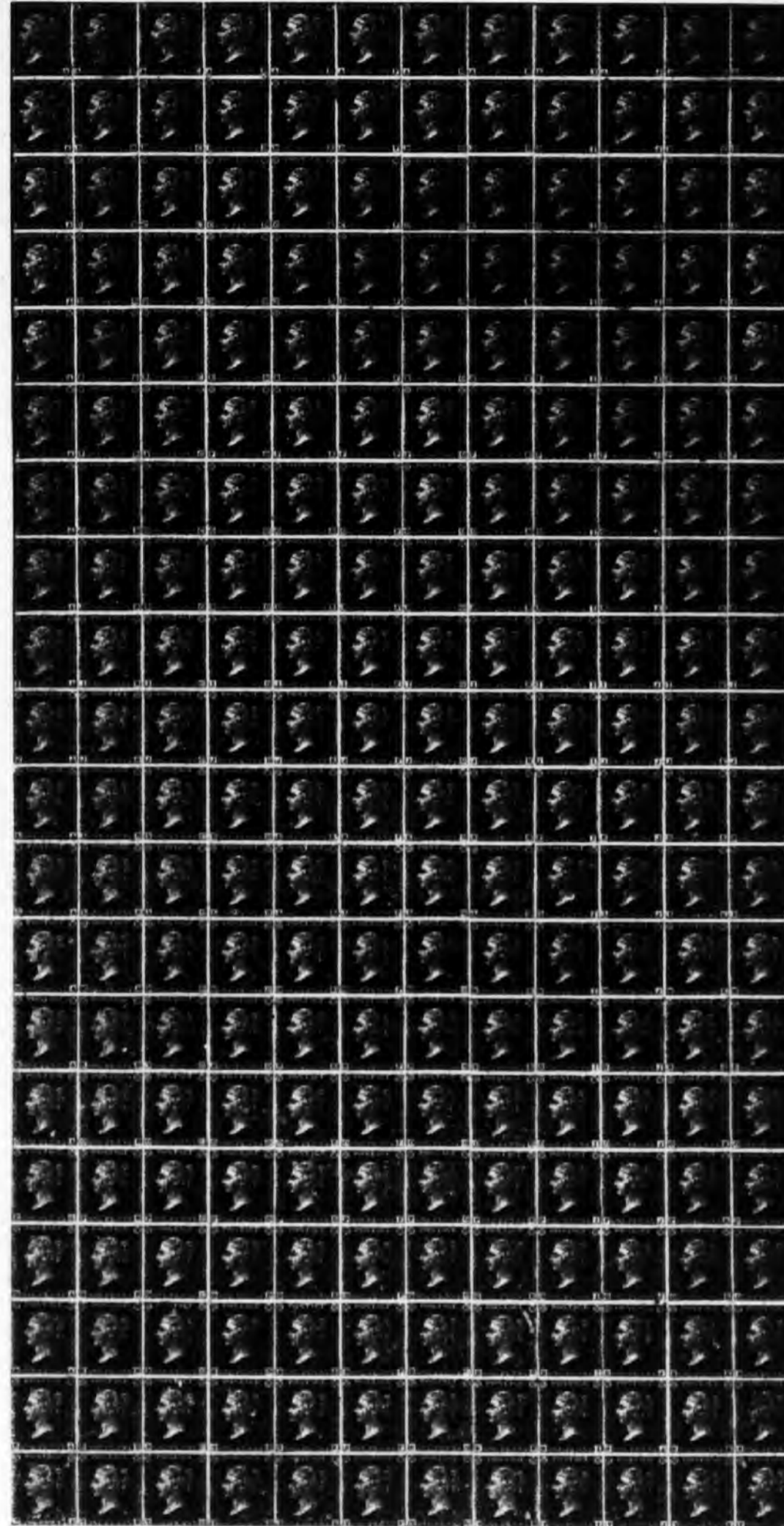
**DAMPING CLOTHS,
COTTON WASTE,
MACHINE RAGS,
POLISHING RAGS, &c.**

PRINTERS OLD BLANKETS,
OLD LEATHER BELTING.
OLD INDIA RUBBER PURCHASED.

Charlton Place, Islington Green,
LONDON, N.

Telephone 460, King's Cross.
Telegraphic Address "Whatever London".

FISHER, CLARK & Co
TAGS & LABELS.
UNEQUALLED FOR STRENGTH
QUALITY AND CHEAPNESS.
PRINTING 2 COLORS
AT 1/COLOR RATE
SEND FOR SAMPLES
AND PRICES.
BOSTON, ENGLAND.
ESTABLISHED 1850.



Impression from Steel Plate, from which a Million Sheets (1,000,000) had previously been printed.

of each plate as to the vignette, portrait, or other kinds of engraving that go to make up the whole design of a banknote, share warrant, or other document that is to be printed; so that whether 100 or 1,000,000 copies are to be printed from one plate, or twenty plates, every line will be identical throughout the whole quantity.

The Queen's head in the old red penny postage stamps, of which some billions were issued, was identically the same in 1879 as in 1840, with the exception that in 1854, the stamps being then printed in a fugitive red colour instead of a black (note here the detail that the strength of the engraving varies according to the colour in which impressions are to be printed), it was deemed advisable to have Charles Heath's original head strengthened, which was done by Humphreys. This identity is obtained by Perkins' mill and die system. The original die engraved on soft steel is hardened, and by the transferring press the design is impressed, but of course reversed, on to a soft steel roller. This in turn is hardened and the design again impressed on the printing plate, being of course again reversed, so that the engraving on the printing plate is an exact replica of that on the original die, and the roller being capable of impressing

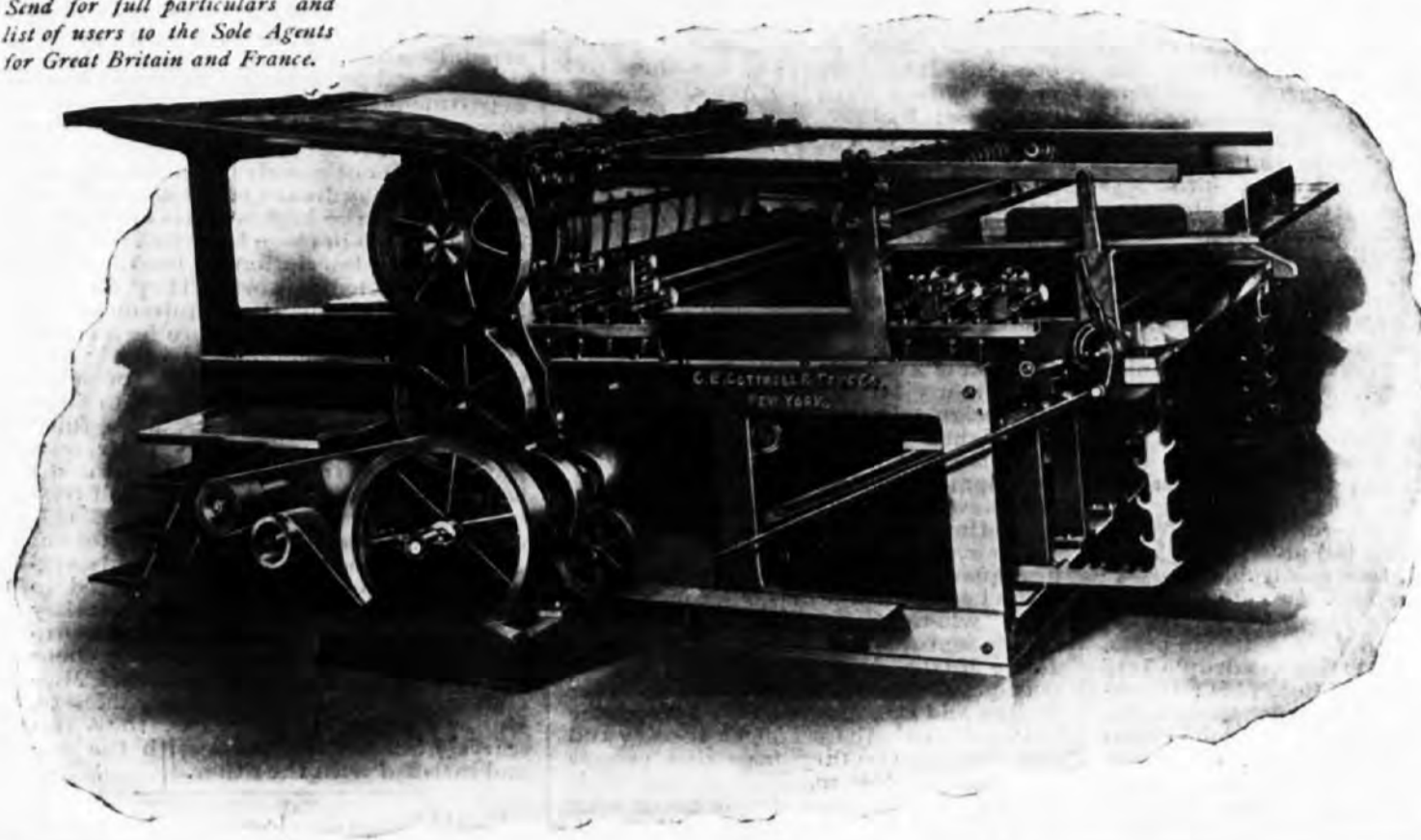
termed "plate printing," which they probably have not facilities for executing; they, therefore, do not trouble about it, saying "it is not in our line." Now we would point out to such that everything in the way of printing is in their line that brings a fair profit, and when an old-established house like Perkins, Bacon and Co., Ltd., the introducers of siderography into this country in 1819, are ready to execute trade orders from printers for this class of work, and indeed in their new works at Southwark-bridge-buildings, have laid themselves out especially for trade work, it is a pity to let opportunities pass of obtaining orders of this sort, merely because one of the three or four big engraving houses that make a speciality of the trade may be quoting direct to the customer. The firm we refer to can undertake the whole job, from the preliminary, sketch to the complete share warrant, banknote, or postage stamp; while an ordinary letter heading (and steel plates are used for the die presses) does not come amiss to its varied capacity for assisting the trade.

And what are the advantages and disadvantages of siderography? For he remembered that as it is not economical to employ a steam hammer to crack a nut, so it is not a paying operation to engrave a steel plate to print a packet of

SIX GOOD LINES.

The New High-Speed Two-Revolution Cottrell

Send for full particulars and list of users to the Sole Agents for Great Britain and France.



Among some of its special features are:

- CONVERTIBLE DELIVERY.** Delivering sheets printed side up or down, change made easily in three minutes.
- UNIVERSAL SIZE ROLLERS.** Enabling form rollers when too hard to be utilised as distributors, thereby doubling their period of usefulness, with consequent reduction in roller bill.
- HINGED ROLLER FRAME.** One man at one operation can lift form rollers from form and riders from form rollers.
- REVERSING MECHANISM.** Allowing the operator by pedal pressure to back the press from a fraction of an inch to full form size at one-third the speed; a boon in the "making ready."
- PATENT AIR SPRING.** Permits of press running at top speed without noise or jar.
- DEVICE** for controlling momentum, ensuring at all times perfect register.
- DURABILITY.** We can quote machines to-day on High-Class Magazine Work that have been in use night and day for nine years. All metal chemically tested, and every part of the best quality and workmanship.

Some Users of Cottrell Presses:

Barclay & Fry, Ltd.	Hudson & Kearns.
Ballantyne, Hanson & Co.	Hudson, Scott & Sons, Ltd.
Butler & Tanner Frome.	Lever Brothers
Blacklock & Co.	Port Sunlight.
(Manchester).	McCorquodale & Co., Ltd.
Cassell & Co., Limited.	Spicer & Sons.
W. Clowes & Sons, Ltd.	Thom & Co. (Dublin).
R. Clay & Sons, Ltd.	Tillotson & Son, Ltd.
Alf Cook (Leeds).	(Bolton).
Chorley & Pickersgill	London Colour Printing
(Leeds).	Works.
Eyre & Spottiswoode.	University Press (Oxford).
Hazell, Watson & Viney.	Waterlow & Sons, Ltd.
Ltd.	

The Best and Cheapest in the World.



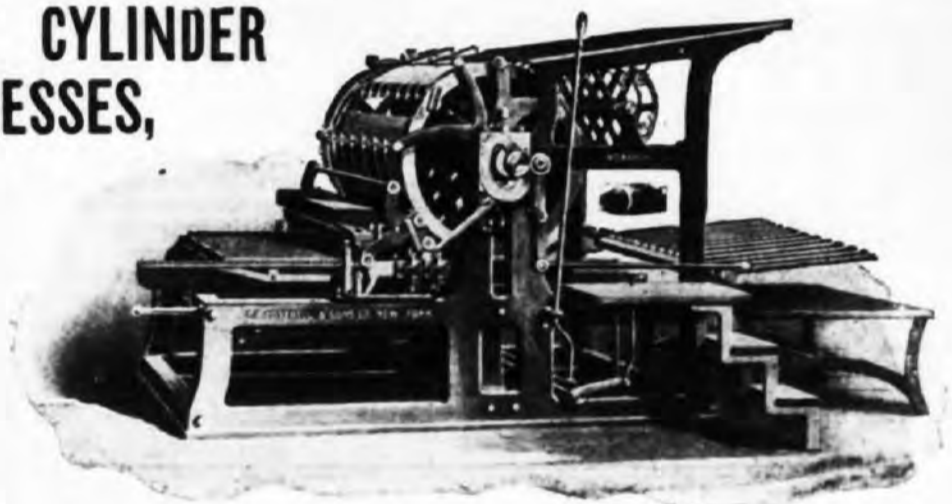
THIS is a STRICTLY FIRST-CLASS HIGH-GRADE ROUTER. Bed 22 by 22.

WE HAVE 12 STYLES OF ROUTERS.

Pedestal Routers straight line and radial arm combined.
Combined Flat and Circular Plate Routers.
Pedestal Curved and Circular Plate Routers.
Curved Plate Routers
Milling Routers.
Bevelling Machine (with or without white line attachment).
 IN VARIOUS SIZES AND STYLES with COUNTER-SHAFT IF SPECIFIED.

DRUM CYLINDER PRESSES,

FOR High Class Work AT High Speeds.

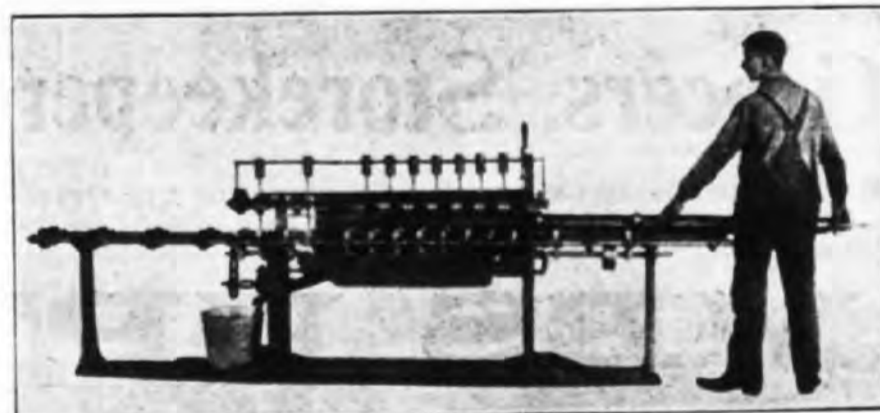


MODERATE IN PRICE.

Perfect in Register and Impression, Noiseless in Operation.

PRINTER'S DEVIL Roller Washing Machines

A unique time and money saver. USED BY SUCH PROMINENT HOUSES AS



Messrs. Hudson & Kearns 2 Machines.
 Tillotson & Son 3 Machines.
 David Allen
 Thomas Nelson
 Spottiswoode & Co.
 Co-Operative Wholesale Society, Manchester 2 Machines.
 Bibby & Baro etc.

Will wash rollers from 2 to 4 1/2 in. diameter, and of any length. The longest roller is cleaned in 30 Seconds.

Perfectly Clean & Dry.

No Rags Required.

Two gallons of solvent will wash rollers for ten presses for two or three weeks. A big economy. Can be rigged on castors. Requires 1/2 h.p. Keeps rollers good and true.

THE Eclipse Jobbing Folder

LOW PRICE HIGH GRADE.



Automatic Side Register. Back Retarder. Steel Gauge. Spring Cushion Roller Boxes. Unstretchable Tape. Milled Steel Rollers. Individual Tape Stands. All Modern Improvements.

Two Sizes, 12 by 18 to 25 by 40. 22 by 30 to 36 by 48. GUARANTEED A HIGH CLASS MACHINE.

For full Particulars and Prices apply:

Canadian-American Machinery Co.,
 8, BOUVERIE STREET,
 LONDON, E.C.

Where all these Machines can be seen in Operation.

GALLY UNIVERSAL PLATEN

INK FOUNTAIN is perfectly under control, and WITH ITS SPECIAL ATTACHMENTS FOR COMMENCING THE ROLLING OF FORMS FROM BOTH TOP AND BOTTOM is peculiarly adapted for



FINE OR LARGE TINT WORK
 HALF-TONE, AND
 THREE COLOUR PRINTING,
 AS ALSO FOR
 SHOW CARD AND BOX LID,
 EMBOSsing AND STAMPING,
 CASE PRINTING,
 BOOK-COVER INLAYING,
 WOOD PRINTING,
 CUTTING AND CREASING.

Progress in Press Building.

THE BIGGEST MACHINE IN THE WORLD.

Messrs. R. Hoe and Co.'s Extensive Orders, Addition to their Works.

There has just been shipped from the New York Works of Messrs. R. Hoe and Co. the largest and most expensive printing machine ever constructed. It was consigned to the *Boston Post* and required ten large freight cars to carry it, all of which were well filled. The total weight of this machine, which is known as a "double-octuple and colour combination press," is 371,170 pounds. When erected and running in the press-room of the *Post*, it will not only produce newspapers of any number of pages up to forty-eight at the rate of 96,000 twelve-page papers per hour, but also be capable of turning out fine colour work at a high rate of speed.

Messrs. Hoe and Co. have at present, either in course of construction or on order, over one hundred web perfecting presses of varying capacities in hand, and so great is the demand for these improved machines that the firm are now building a large seven-storey addition to their New York works which, when completed, will give an increased floor space of over 2½ acres, and thus enable them to cope with the rush of orders.

They have also recently erected a new engineering shop in London, where they employ between 650 and 700 men, and are working day and night most of the time. With these additions, the "Hoe" shops in New York and London will have a total floor area of over twenty acres.

Among the orders recently taken in the New York works for web presses for leading newspaper and other offices in the United States, Canada, and New Zealand, are the following:—

Massachusetts: *Boston Herald*, two double-sextuple presses, with colour cylinders, and a sextuple and combination colour quadruple; *Lawrence Eagle and Tribune*, thirty-two-page supplement press; *Fall River Globe*, two-roll press; *Lowell Courier-Citizen*, one quadruple press and one electrotype web perfecting press. New York: *New York Daily News*, double quadruple-octuple press, with extra colour cylinder; *New York Herald*, decks for several quadruple presses, converting them into sextuples; *New Yorker Volkszeitung*, three-page-wide stereotype press; *New York Evening Bulletin*, single-roll stereotype press; *Rochester Post-Express*, quadruple press; *William Green*, New York City, sixty-four-page electrotype web perfecting

press, with extra colour cylinder; the *Frank A. Munsey Company*, New York City, two ninety-six-page magazine presses; *P. F. Collier and Son*, New York City, six-cylinder electrotype multi-colour pictorial combination web perfecting press; the *Success Company*, New York City, thirty-two-page electrotype pictorial web perfecting press and folder. California: *San Francisco Chronicle*, sextuple and combination colour quadruple press, also two decks, converting two sextuples into quadruples; *San Francisco Bulletin*, colour deck for quadruple, converting it into a colour sextuple; *San Francisco Examiner*, sextuple press; *Los Angeles Examiner*, sextuple press; *Los Angeles Times-Mirror*, deck for quadruple press, converting it into a sextuple machine. Indiana: *Richmond Palladium*, single supplement press. Ohio: *Cleveland Leader*, quadruple press, and two decks, converting two quadruples into sextuples; *Cleveland News*, sextuple press, with colour attachment; *Toledo Press*, quadruple press. Illinois: *Chicago Tribune*, six decks, for converting three double-quadruple octuples into three double-sextuples. Michigan: *Kalamazoo Gazette*, two-roll press; *Jackson Citizen-Press*, two-roll press. Pennsylvania: *Harrisburg Patriot*, quadruple press; *Philadelphia North American*, deck for quadruple press, converting it into a sextuple; *Philadelphia Bulletin*, one sextuple press and eight decks for converting eight quadruples into sextuples; *New Castle Herald*, two-roll press; *Johnstown Journal*, two-roll press. Maryland: *Baltimore Sun*, two quadruple presses; *Baltimore American*, two double sextuples; *Baltimore Herald*, quadruple; *Baltimore News*, double sextuple press, and a deck for converting quadruple into a sextuple. District of Columbia: *Washington Times*, double quadruple-octuple, with extra colour cylinders; *Globe Printing Company*, Washington, almanack and book web perfecting press. Tennessee: *Memphis News Scimitar*, four-roll press, with extra colour cylinder; *Memphis Commercial*, four-roll press, arranged for colours. New Jersey: *Paterson Guardian*, twenty-four-page supplement press; *Newark Advertiser*, quadruple press. Texas: *Beaumont Enterprise*, two-roll press, with colour cylinders; *Dallas News*, sextuple press; *Houston Chronicle*, four-roll press. Virginia: *Norfolk Virginian-Pilot*, thirty-two-page supplement press. Louisiana: *New Orleans Times-Democrat*, double sextuple; *New Orleans Picayune*, another quadruple, with four-roller distribution. Kansas: *Wichita Beacon*, twenty-four-page supplement press. Utah: *Salt Lake Herald*, three-roll press; *Salt Lake Tribune*, one quadruple press. Washington: *Tacoma Daily News*, four-deck press with colour attachment. Canada: Toronto

Telegram, sextuple and combination quadruple press, also one deck for a quadruple press, converting it into a sextuple; *Toronto Star*, quadruple press with extra colour cylinders; *Montreal Herald*, quadruple press; *London Free Press*, three-roll press, with colour cylinder; *Winnipeg Free Press*, combination sextuple and colour quadruple press; *Victoria Colonist*, two-roll press; *Victoria Times*, two-roll press, with extra colour cylinders; *Vancouver World*, two-roll press, with colour attachment; *Vancouver News-Advertiser*, sixteen-page supplement press. Australia: *Melbourne Age*, one sextuple and combination colour quadruple press; *Sydney Sunday Times*, one four-roll press; *Sydney Herald*, one four-roll press; *Sydney Telegraph*, one three-roll press; *Sydney Evening News*, one four-roll press; *Sydney Town and Country Journal*, one four-roll press; *Australian Star*, one thirty-two-page quadruple press; *Perth Herald and Enquirer*, one twenty-four-page supplement press. New Zealand: *Christchurch Times*, one four-roll press; *Christchurch Press*, one four-roll press.

Lengthy though this remarkable list is, it does not exhaust the current demand for Messrs. Hoe and Co.'s machines, as in their New York works there are also a great many large machines under way for foreign countries, among them being the eighth newspaper web perfecting press made within the past few months for shipment to Paris, the fourth machine for a newspaper in Milan, and others for Argentina, Japan, and elsewhere.

The activity shown in the New York headquarters has its counterpart in the firm's London works in the Borough road, S.E., where they have under weigh double-sextuple and other presses for the *Daily Mail* and *Evening News*; double-sextuple and two-colour bill machines for Hulton and Co., Manchester; two-colour bill machines both for *Lloyd's Weekly* and the *Tribune*; rotary magazine presses for printing Messrs. Hulton and Co.'s *Ideas*; additional quadruple presses for the *Glasgow Record* and the *Daily Mail*, Manchester; additional double-supplement press for the *Westminster Gazette*; additional single-roll machines both for the *Darlington and Stockton Times* and the *Birmingham News* and several other offices, as well as stop-cylinder and two-revolution presses for Messrs. Unwin Brothers and other leading printers. They are also at present engaged in erecting additional presses in the *Glasgow Citizen*, *News of the World*, *Birmingham Post*, and *Midland Evening News* offices, and are very busy in the electrotyping and stereotyping departments, having under construction for different offices six outfits of their new improved casting furnace, to which are attached their horizontal casting boxes (recently patented).

A Manchester Engraving Firm.

If the progress and enterprise that provincial photo-engraving houses have shown during the past two or three years is continued on the same lines, it may be at no distant date that the palm for work of this description will be wrested from London. Indeed, some of the results shown already rival anything that can be done in the metropolis.

A prominent North of England house in this line is that of Messrs. E. Hulton and Co., Ltd., Withy-grove, Manchester, a firm which has already many years' reputation behind it in connection with printing and publishing. A process work department has lately been added, and a specimen book submitted to us shows that Messrs. Hulton and Co. are not content to turn out merely line and half-tone blocks of the ordinary character, but also aim at doing the highest class of engraving attainable in these branches, suitable for the best description of book, magazine, or catalogue work. They do not, however, overlook the requirements of the ordinary printer, more especially the newspaper printer, and having had themselves a wide experience of what this class of work requires in the direction of process blocks, have fully utilised that experience in their own process department, and claim to be among the pioneers of half-tone blocks for rotary machines in this country. So far as the samples before us go, they are sharp and clear, cleanly vignettted and thoroughly well adapted to the particular purposes for which they were designed. Printers who have process orders to give out—particularly those in the Lancashire, Yorkshire, and Midland districts—should send for Messrs. Hulton's samples and prices, they can scarcely fail to be pleased with the one and satisfied with the other.

To aid in the development of a system of commercial education in accordance with the local requirements, the Sunderland Higher Education Committee, in conjunction with the Sunderland Chamber of Commerce, has decided to introduce the scheme of commercial examinations drawn up by the London Chamber of Commerce, the Sunderland Technical College being the centre for the local examinations.

A RATHER distinguished Russian Jew has just arrived in London in the person of N. Sokolov, the famous Russian journalist. Mr. Sokolov who has come on an important mission on behalf of his co-religionists, is the editor of the Hebrew daily paper, the *Hazeffrah*, which has recently been suspended by the Russian Government.

Do you supply — CHROMO ALMANACKS

To Grocers, Storekeepers, &c.?

IF SO, SEND FOR SAMPLES TO

JAMES UPTON

CHROMO
ALMANACK PRINTER,

Cambridge Street, BIRMINGHAM,
ENGLAND.

The Designs are Numerous, Choice and Saleable.

Postal Address:

James Upton,

Established over
Half-a-Century.

Telegraphic Address: "BASKERVILLE, BIRMINGHAM."
Telephone No. 64.

Cambridge Street, BIRMINGHAM.



The latest and most improved **LABOUR-SAVING MACHINERY** for the

Allied Trades. Full particulars furnished on application.

Telegraphic Address: "Slogan," London.

Telephone: No. 9,176 London Wall.



Multiplex Power Punching and Round Cornering Machine, No. 339.

Is the best small machine made for any kind of Punching or Round Cornering. Fitted with one-piece Punch Heads, and all cutting parts are made of the Best Tool Steel.

HOBBS M'F'G. CO.

beg to announce that they have removed to more convenient and commodious — premises at —

21-27, Hatfield Street,

GOSWELL ROAD,

where a full range of

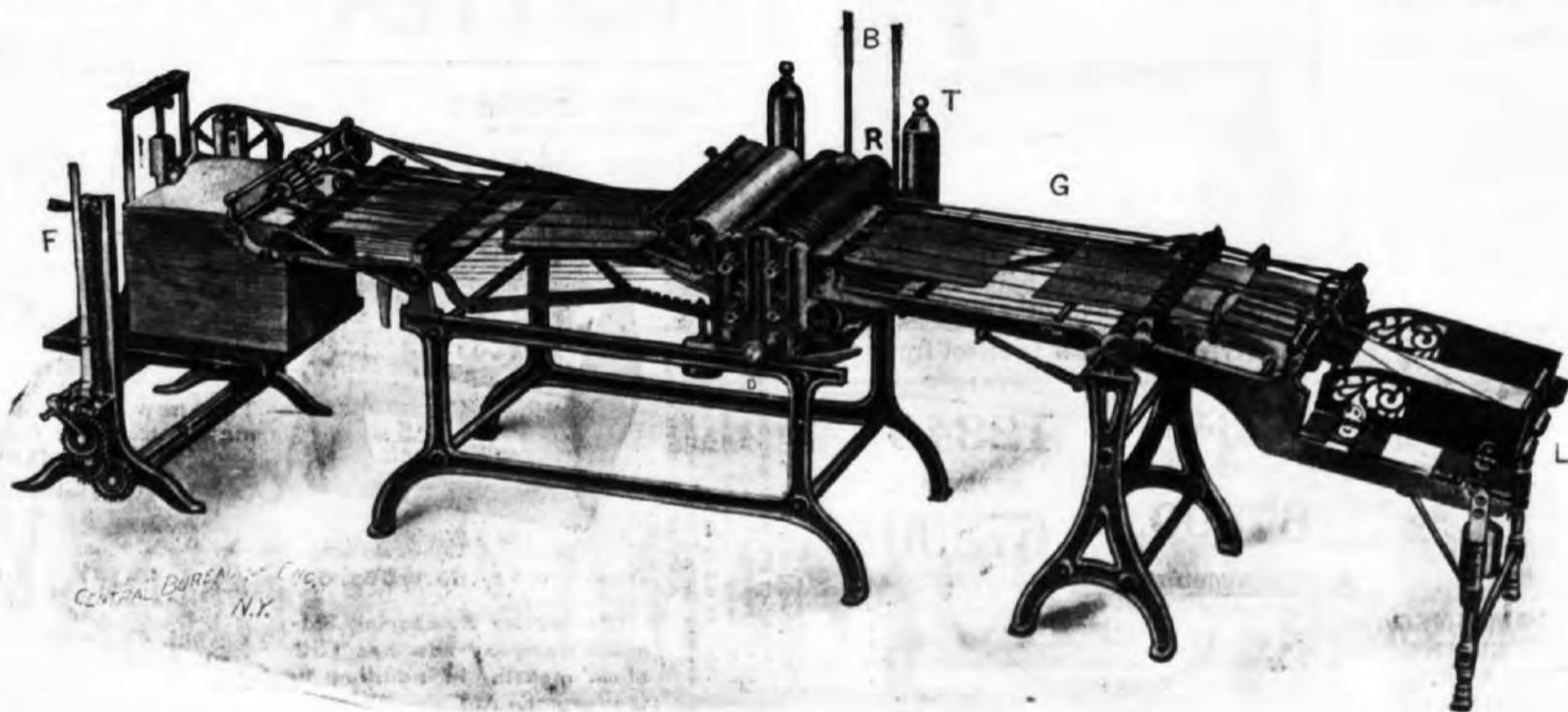
PRINTERS' AND STATIONERS' MACHINERY

is on Exhibition in their Showrooms, and where they will be pleased to receive a visit from the trade.



"Progress" Wire Stitcher, No. 239.

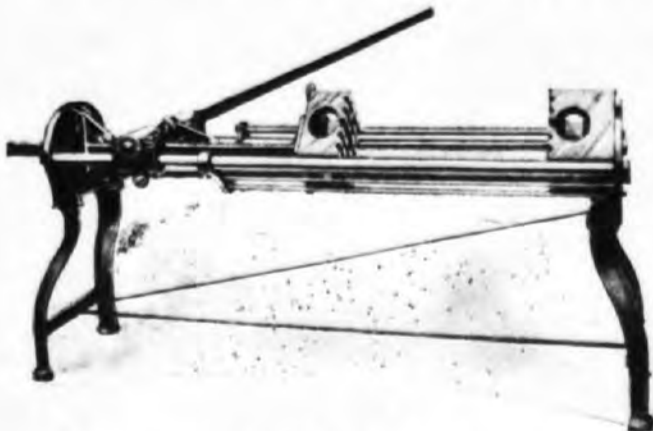
A combination of all the latest ideas and improvements in Wire Stitching Machines. Suitable for all classes of work. Simplicity is the keynote of this Machine.



The "McAdams" Double Disc Faint Line Ruling Machine. No. B. 275

This Machine is unequalled for output of High-Class Work. It will drop 125 sheets of 28-in. Paper in the box per minute.

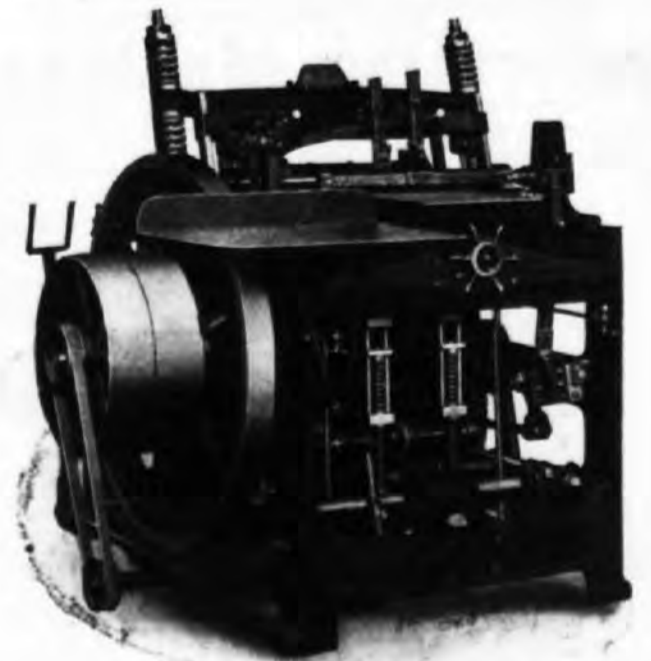
Our new Adjustable Disc Rolls are readily adjustable to any pattern without removing the discs from the rolls, as no spare rings are used. These Rolls are suitable for both short and long runs, and are not liable to get out of true. Is now in use in the principal Blank Book Factories in the United States, where it has earned a high reputation; and since its introduction in this country several repeat orders have been obtained.



Crawley Bundling Press, No. 358.

For Compressing and Tying-Up Printed Folded Sheets, so as to store in minimum space and protected from dirt. Has many advantages over the Power Bundling Presses; it costs nothing to run except wages of Operator; occupies less space and weighs less.

TELEPHONE OR WRITE WHEN YOU ARE REQUIRING ANYTHING IN LABOUR-SAVING MACHINERY.



Crawley Rounding and Backing Machine, No. 357.

This Machine is in use in all the Principal Binderies throughout this country and America, and is too well-known to need description.

HOBBS M'F'G. CO.,

21-27, Hatfield Street, Goswell Road, London, E.C.

A Unique Paper Trade Celebration.

Messrs. D. and S. OCKLESTON'S
MILL BANK PAPER MILLS.

Their Past History and Present Progress

1756-1906.

Although a paper mill—the first of which there is any historical record—was in operation in England (at Hertford) as early as the last decade of the fifteenth century, but very few of the mills in existence at the present day can trace their ancestry back to even the eighteenth century. Two or three, such as St. Neots and Frogmore, can boast of a century of uninterrupted connection with the trade, and a few more, including the now deserted mill at Two Waters, are known to have been in use as paper mills in pre-machine days; in which category may also be included the mill at Maidstone at which the "Whatman" papers are still made, although it is not, we believe, on the same site as the original one.

But, as a general rule, the British paper mills of the twentieth century are a very modern lot, and thus we think we are correct in describing the celebration of the 150th anniversary of the foundation of one as a unique event.

The establishment in connection with which the festivities in question were held, at the Saracen's Head Hotel, Warburton, on Saturday, December 23rd, is the Mill Bank Paper Mill, now in the occupation of Messrs. D. and S. Ockleston, and situate in the rural district of Parlington, Cheshire, a few miles south-west

various title deeds of the property. He made a series of extracts from these and other papers and had them transcribed, in 1844, into a large 4to volume, containing about 150 leaves of "Whatman" wove paper, with printed rule borders round every page. About a third of the volume is occupied by the extracts just referred to, which are beautifully written in a large copperplate hand, with title-page complete, and form a fine example of the writing master's art of sixty years ago. In fact the book, which is in a contemporary binding of maroon morocco, blind tooled, is a very interesting item in the history of the British paper trade.

The first event in the life of the Mill Bank Mills took place on July 22nd, 1755, when the piece of land on which the first mill was erected, and which contained only 297 square yards, was purchased by Mr. Ellis Crompton from its previous owners, the Old Quay Navigation Co. This latter concern was in existence as early as September, 1732, when it acquired from a Mr. Barratt 38½ perches of land for the purpose of making Ullart's Nest Lock and a weir across the River Mersey, which stream, along with its tributary, the Irwell,—that meets it near Mill Bank—were rendered navigable about that time. It was a portion of this land that Mr. Crompton bought, and for which he paid the trifling sum of £2 18s. As this gentleman intended erecting a paper mill on his bit of ground, it was of course necessary to make some provision with regard to water power, and so on December 29th, 1755, he arranged with the Old Quay Co. to have the privilege—in consideration of a yearly water rent of £5—of boring some tunnels underneath two vacant plots of land which bordered his own on the

character of the turn-out is still largely on the old lines.

Not much is known about Mr. Crompton, but the circumstances under which, through him, the ancestor of the present owners of the mill came to be connected with the place are sufficiently curious to call for some detailed mention.

In the early part of the eighteenth century one Henry Greaves, a member of a family of good standing in Lancashire, was living at Chester and had two sons, Thomas and Henry, born respectively in 1738 and 1742. The parents died whilst their children were still quite young, and thus the care of them, and of the property left in trust for their benefit, devolved on an executor. This individual seems to have acted the part of the wicked uncles in the "Babes in the Wood," as he applied the boys' property to his own use and bundled the children off to sea. Probably he knew enough of the hardships of a boy's life at sea in those days to feel tolerably well assured that the chance of their ever returning to claim their rights was only a very slender one. The younger lad, Henry, did in fact die at sea in 1766, whilst on a voyage from Jamaica to Liverpool. He had by that time attained the position of chief mate, and his log book and quadrant were sent to his brother at Mill



Title Page to the MS. History of Mill Bank.

decided to pass him on to someone else.

The turning point in his life was not long in coming. One day, Mr. Ellis Crompton, the papermaker, who then (1752) had a mill near Bolton, called at Leather's place on his way to Liverpool with a number of pack horses laden with paper, intending to bring back his raw materials or other goods in the same manner, railways being then unknown, and other means of transporting goods nearly so. "Mr. Leather asked Mr. Crompton if he wanted an active lad, for he had one too sharp for him (telling him the story of the colt), it was agreed upon that Thomas Greaves should go with him, whom he served faithfully as it will appear." The first employment of Thomas Greaves was driving six pack horses with paper to market, and materials back, for which he received one penny per day (allowed for his expenses). It is satisfactory to find that notwithstanding the extravagant nature of his remuneration, and the temptations consequently put in his way, Thomas Greaves decided to follow the paths of virtue, and not to spend his ample means in riotous living. He had now attained the age of fourteen years, and his first care was to save up his money to buy a Prayer Book, which, the chronicler records, "took every penny he had in the world." This book was preserved at Mill Bank after its owner's death, "and shown to all the growing-up members of the family as an example and fact that from such Care all the family's present prosperity proceeds." We are then told that "Thomas Greaves served as an apprentice to Mr. Crompton, near Bolton, till (extremely careful, never going to Public houses, or spending any useless money except—if useless money it may be called—buying strings for his fiddle) he was removed to the New Mill at Mill Bank, where he acted as foreman for Mr. Crompton, till (1762) he sold the mill to Mr. Abraham Tittley, whom he served in the same manner, till (1773) when Mr. Lyon bought the whole of Mill Bank." In the meantime he had married, in September, 1762, Mary Devenport (1745-1801).

Mr. Crompton appears to have got into some financial difficulty soon after his new mill was erected, as on December 29th, 1757, he mortgaged it to Lady Dorothy Grey for £300. Abraham Tittley, to whom he ultimately sold the property for £855, was a member of a family to which the Greaves were allied, and was the son of a Mr. Thos. Tittley, who in 1748 had bought from the Mr. Barratt who was the original owner of all the neighbouring land, a piece of ground on which he built slitting and rolling mills, close to the site of the Paper Mill, and of which Abraham Tittley was also the proprietor. The latter erected the structure afterwards called "The Old Building," with the finishing room and lofts over, and built a dwelling house for himself, laid out gardens, etc. He also "erected a small Summer House, and made his will, 5th May, 1770." The wisdom of this latter proceeding was evidenced

* The quaint and curious phraseology of the writer of the volume of extracts already alluded to is one of its most interesting features. It is of a much earlier date than 1844, and possibly represents the language of some older records of the events dealt with. One of these earlier documents still exists, written on a double sheet of foolscap in a hand of 70 or 80 years ago, and has been carefully copied by the writer of the MS. history, who however gives no hint—possibly was not in a position to—as to its authorship.



Photos: J. Ingham and Sons, Sale.

The Late Jas. Greaves, Esq.

The Late Thos. Ockleston, Esq.

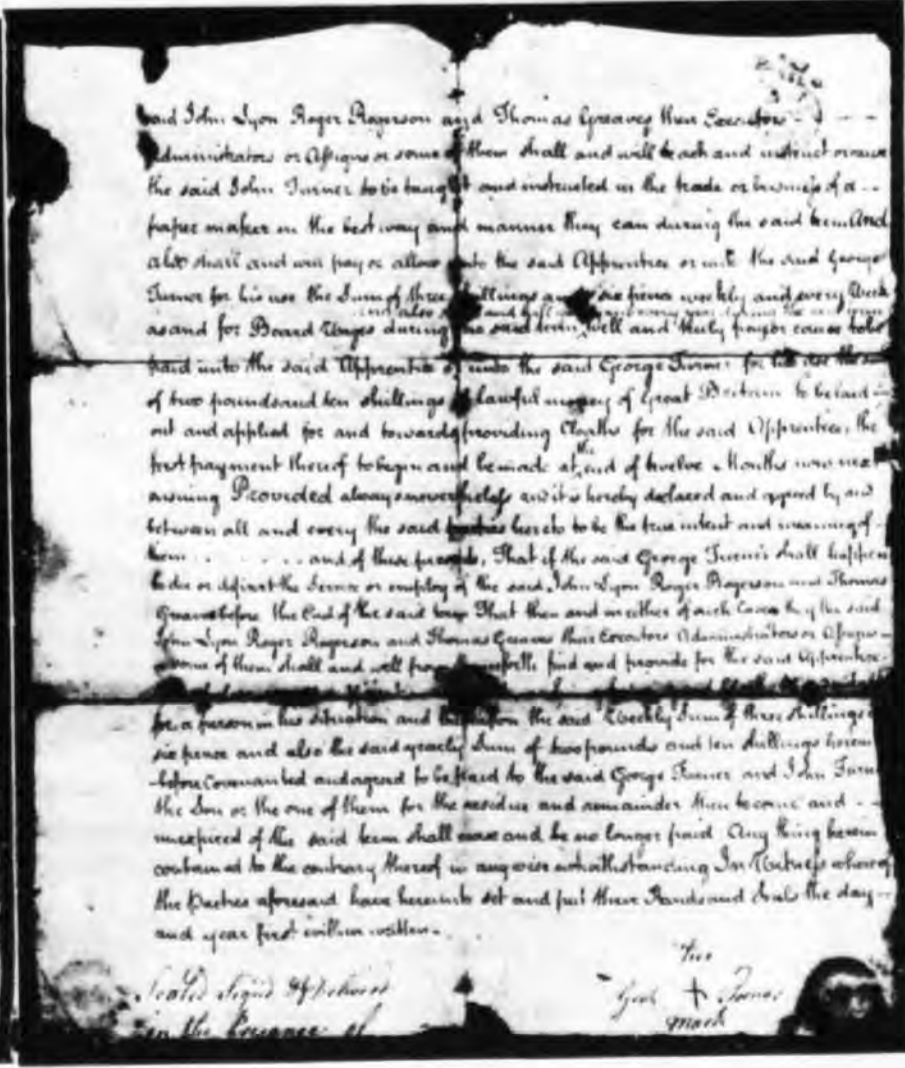
of Manchester, and in close proximity to the Ship Canal.

Though it was not founded by the Messrs. Ockleston, the present owners of that name are members of a family which has had the place in its possession for 98 years, and has been connected with it for 150 years. Particulars about the past history of an old-standing industrial concern, though always of interest, are unfortunately but seldom available. In the present case, however, one of the former owners, James Greaves (1778-1855), evidently took an interest in the place, and appears to have carefully preserved all the documents relating to it which he could lay his hands on, including the

west and north sides, by which means he gained access to the water of the canalised river. The mill, which appears to have only consisted of a single building, was probably completed in the course of the year 1756, and it is on record that a portion of it was partitioned off in order to serve as a four-roomed house for the manager.

Mr. Crompton built the mill for the purpose of making rope browns, which were then, as now, a staple product with English mills, and this has continued to be the specialty of the Mill Bank Mill down to the present day, a century and a-half later. The means of production have of course greatly improved, but the

possible between himself and the blood-thirsty cook. His opportunity soon came, as one day he was sent ashore with a bucket (!) to fetch meat for the ship's company, and having left his keys in the cabin, ran away to a relation of his, Mr. Leather, a farmer at Gatacre, near Liverpool, who took him in and with whom he lived for some time. But his nautical instincts were of too active a nature to suit a farming life, and after having upset one of Leather's colts on its back in the mud, by taking a quick turn of its halter round a post on the occasion of a little difference of opinion between himself and that quadruped, his relative seems to have



Facsimile of Apprenticeship Indenture, Mill Bank Mill, Dec. 24, 1777.

by the fact that he died within three years afterwards, when (May 2nd, 1773) his executors sold the slitting, rolling, and Paper Mills, together with his house, land, and some other property, to Mr. Thomas Lyon for £3,500. This gentleman, described as a "low man, in a light blue or bottle-green coat," came to reside at Mill Bank, raised the dwelling house another story and took down Titley's summer house. He then built a new house for his foreman, Thos. Greaves, who had for the previous eighteen years made shift with the four rooms attached to the original mill building. Lyon also put a "Weather Cock on the top of the mills, on the vane of which is marked or gilt 1773," which remains (on the gable-end of the present building) to this day. In the same year,

Greaves' long services at Mill Bank were rewarded with a partnership in the concern now formed to work it, which also included, besides Lyon, one Roger Rogerson, of Warrington, who had had business transactions with the younger Titley. These three carried on the slitting as well as the paper mill until Mr. Lyon's death in June, 1781. This event extinguished the partnership arrangement, and the property then passed to Mr. Lyon's sister, Elizabeth, who had married a Mr. Walter Kerfoot, and who then became owner of Mill Bank. During Mr. Lyon's time an occurrence of some interest, even at the present day, took place. On December 24th, 1777, a lad named Turner, the great-grandfather of Mr. Joseph Turner, managing director of the Turner Paper Mill Co., Ltd., Rawcliffe Bridge, was bound apprentice to Messrs. Lyon, Rogerson and Greaves, in order to learn the art and mystery of papermaking. The indenture is still in existence, and in the possession of Mr. Joseph Turner, whose great-great-grandfather, Geo. Turner (the father of the apprenticed lad) was a papermaker at Mill Bank from the time when it first started in 1756. We give herewith a reproduction of this interesting document, a small portion of which is missing at the bottom.* The apprentice had a son in later life, Joseph Turner, who also worked at Mill Bank, leaving it when the neighbouring Throstle Nest Mill was started by Messrs. Smith and Ingle, at which establishment the present Mr. Joseph Turner's father (John Turner) was apprenticed.

Mr. Kerfoot appears to have conducted the Mill Bank Mill on his own account for about half-a-dozen years, at the expiration of which time Thomas Greaves again obtained a partnership interest in it, as the result of an event detailed thus in the MS. chronicle from which we quote:—

* Mr. Turner informs us that the indentures of all his ancestors in the paper trade, dating back as far as the commencement of the seventeenth century, were in the possession of a member of his family until a few years ago, when they were destroyed as useless! It is thus that a good deal of valuable historical material disappears.

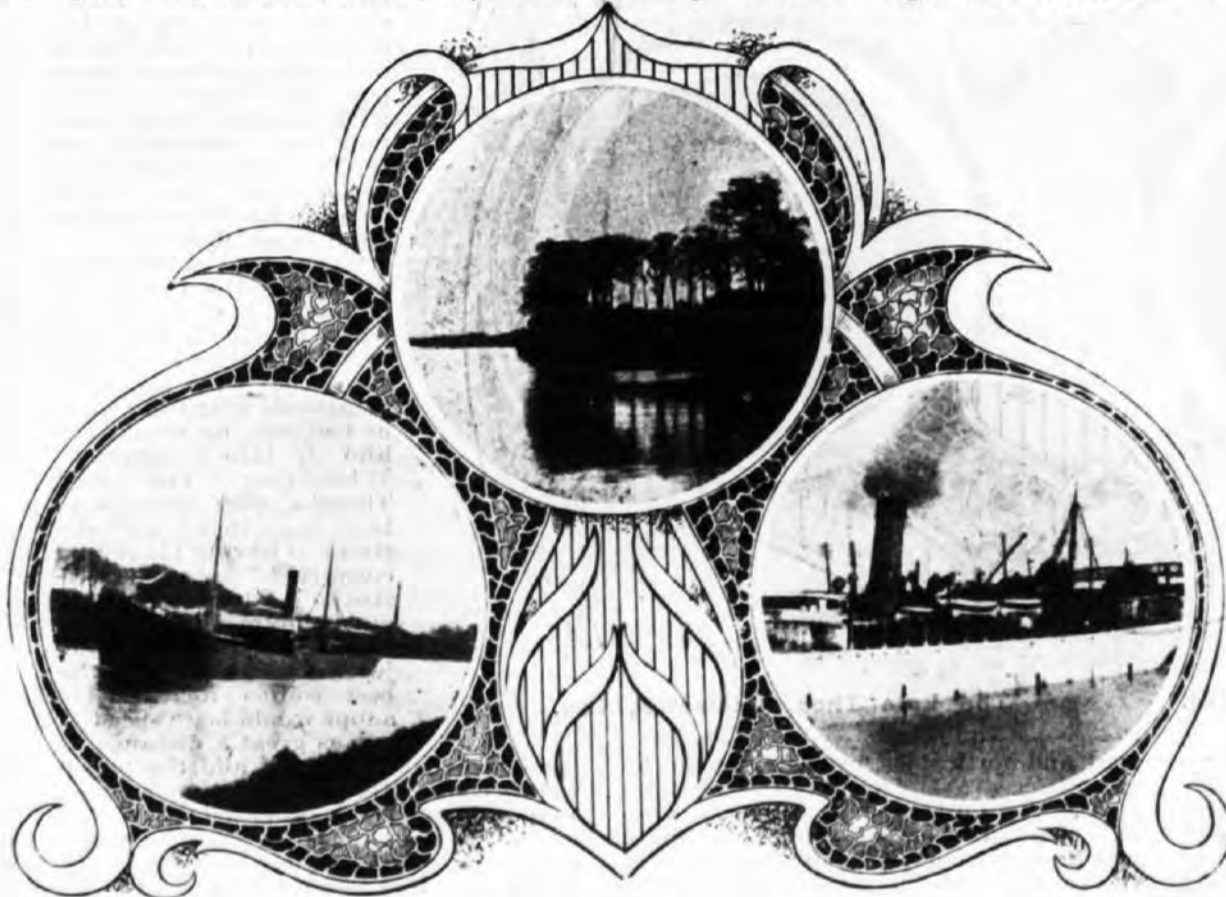


Mill Bank Mills in 1810, showing the Weir, Lock, Tunnel, Etc.

"Thomas Greaves, being requested by Mr. Walter Wilson, of Lymp, and Mr. John Pemberton, of Warrington, to go to Mr. Kerfoot and try to purchase from him both mills; on his pressing Mr. Greaves to tell him who would find the money to pay for them, Mr. Greaves told him, and when he mentioned these two gentlemen's names Mr. Kerfoot said, 'Well, if it be worth their while to join you, it will be worth mine, so you and I

(i.e., the slitting and rolling and the paper) mills being vested in Mr. Greaves, who rented them from Kerfoot at the rate of £140 per annum, of which £80 was for the paper mill. At the same time a new vat house, with some rooms over it, was built. The year 1787 was also signalled by the fact that a silver medal was then awarded to Greaves by the Society of Arts, for some samples of "Paper from raw vegetable," which he

some of the samples seemed to be of very good quality, the Society resolved to have a fair trial made of some of the refuse vegetable matters hitherto considered of little value, in order to see if they could not be utilised in the manufacture of paper, an article of which the consumption, and consequently the price, was daily increasing. Accordingly, in 1787, a premium of ten guineas was offered "To the Person who should make the greatest quantity, not less than ten reams, of the best and most useful Paper from vegetable substances not previously made into Cloth." The subject interested Greaves, perhaps as the result of a visit paid him in the summer of 1786 by a Mr. More (who seems to have been connected with the Society), in company with a Mr. Wilkinson. They suggested that he should try his hand at making paper from the bark of "Withins" (i.e., willow twigs?) He did so, and after a good deal of trouble, loss of time, and expense, was able to despatch to Mr. More, early in August, 1787, a ream of the paper thus made, which was mostly rather stout, owing to the tenderness of the material when ground in the engine. As the parcel—which was sent by waggon from Warrington and was expected to take ten days on its journey to London—did not quite come up to the Society's expectations, either as regards quality or quantity, that body did not award Greaves the 10 guineas, but decided instead to bestow upon him their silver medal, principally in view of the fact that, in their opinion, the finer portion of the lot, i.e., eight quires made from the bark only, appeared "likely to answer some valuable purposes hereafter, when the mode of working raw vegetable materials shall be better understood." The process Greaves adopted in the preparation of this paper was as follows:—The bark or peel was stripped from the "Within" twigs in September, when such twigs were usually cut for use in basket making. He obtained about 6 cwt. of this bark, etc., of which some 4 cwt. was "heckled" in a similar manner to flax or hemp, and then sun-dried, which reduced the weight to about 1 cwt. The remaining 2 cwt. was dried with the leaves in its green state, as stripped from the twigs, and thereby reduced by one half. The stuff chest and vat being thoroughly cleared, he chopped up the first cwt., and with the roller and plate quite dull, and as smooth as possible, set the engine to work and produced sixteen or seventeen quires of paper, of which the eight just mentioned formed a part, the other cwt. of rougher stuff producing a little over a ream of a stouter make, there being thus a trifle over two reams in all, though had not the first lot of 4 cwt. been "heckled" and cleaned, Greaves thought he could have easily made ten reams out of the whole quantity. There was no mixture of any other fibre, and he considered that paper could be made in this way at half what it would cost to make it from ropes or rags, if the bark and leaves were used in a green state, without being dried. It would be interesting to know whether any other similar experiments



Distant View of Mill Bank Mill from the Canal.

View of Canal near Mill Bank.

Steamer Cooling in the Canal Basin, Partington.

will join co-partnership," which they did with great satisfaction and comfort.

The chronicler does not record whether these feelings were shared by Messrs. Wilson and Pemberton. The partnership deed was executed on August 1st, 1787, and was for 21 years. It appears to have provided for the management of both

had submitted to them under the following circumstances.

Some years previously, the Society had received from one of their corresponding members, Dr. Jacob C. Schaffers, of Regensburg, two volumes containing a great variety of specimens of paper manufactured from raw vegetables. As

follows:—The bark or peel was stripped from the "Within" twigs in September, when such twigs were usually cut for use in basket making. He obtained about 6 cwt. of this bark, etc., of which some 4 cwt. was "heckled" in a similar manner to flax or hemp, and then sun-dried, which reduced the weight to about 1 cwt. The remaining 2 cwt. was dried with the leaves in its green state, as stripped from the twigs, and thereby reduced by one half. The stuff chest and vat being thoroughly cleared, he chopped up the first cwt., and with the roller and plate quite dull, and as smooth as possible, set the engine to work and produced sixteen or seventeen quires of paper, of which the eight just mentioned formed a part, the other cwt. of rougher stuff producing a little over a ream of a stouter make, there being thus a trifle over two reams in all, though had not the first lot of 4 cwt. been "heckled" and cleaned, Greaves thought he could have easily made ten reams out of the whole quantity. There was no mixture of any other fibre, and he considered that paper could be made in this way at half what it would cost to make it from ropes or rags, if the bark and leaves were used in a green state, without being dried. It would be interesting to know whether any other similar experiments



General View of Mill Bank Paper Mill.

THE RAPID PHOTO PRINTING CO.'S REAL PHOTOGRAPH POST CARDS.

MATT OR BROWN GLOSSY.

PRICE 2d. EACH.

THEY SELL ON SIGHT.

Thousands of Designs to select from.

We stock all the Celebrities.

Send us a Trial Order. You will sell the Cards and want more.

It is easy to sell THE BEST. We supply nothing else.



New Designs Published Daily.

Samples and Catalogues sent POST FREE on application.

Send us your Name and Address by next post.

Royalty, Politicians, Christian Names, Animals, Birthday
Actresses, Children, Views, Greeting Cards, Greetings,
Christmas Post Cards and Cards.

YOU WILL GET WHAT YOU WANT FROM

The Rapid Photo Printing Co., Ltd.,

WHOLESALE and EXPORT: 4 and 5, BRIDGEWATER SQUARE, BARBICAN,

WORKS: Hampton Hill, Middlesex.

LONDON, E.C.

BRANCHES: MANCHESTER: BIRMINGHAM: BRISTOL: GLASGOW: BELFAST:

JOHN DICKINSON & Co., Ltd.

PAPER-MAKERS & WHOLESALE STATIONERS

Manufacturers of PRINTINGS & WRITINGS of every description.



NEW . . . COMPRE- . . . HENSIVE . . . SAMPLE . . . ISSUES . . . NOW READY

ENVELOPES.

NOTE PAPERS.

BOXED STATIONERY.

ACCOUNT BOOKS.

CARDS PASTE &

PVLP BOARDS . .

CHROMO ART & SVRFACE PAPERS & BOARDS.

LONDON, E.C.: 65. Old Bailey & Upper Thames Street.

TELEPHONE Numbers 1341 & 1342 HOLBORN & 9376 CENTRAL

TELEGRAMS "COMMILES, LONDON"

THE LARGEST LONDON & MILL STOCKS OF . . .

COATED ART PAPERS IN WELL-KNOWN RELIABLE QUALITIES.

LIGHT HANDLING HIGH BULKING BOOK PAPERS IN STOCK IN STANDARD SIZES and WEIGHTS WRITE FOR SAMPLES

MILLS: CROXLEY: APSLEY: NASH: HOME PARK: HERTS.

CALCUTTA: BOMBAY: MADRAS: RANGOON: NEW YORK:

CAPE TOWN: JOHANNESBURG: SYDNEY: NSW:

Business Specials.

The Charge for inserting Name and Address, &c. (Two Lines only) is Two Guineas per year of 52 insertions, to commence at any time. Fresh Headings are inserted when necessary. Extra Lines 41 ls. per annum each.

BIRKBECK BANK

ESTABLISHED 1851.
Current Accounts. 2% Interest allowed on minimum monthly balances when not drawn below £100.
Deposits. 2½% Interest allowed on Deposit Accounts. Advances made. Stocks and Shares bought and sold. Apply Secretary, Southampton Buildings, High Holborn, W.C.

Book-Sewing and Stitching Machines.

BREHMER, Aug., 12, City-road, London, E.C. Also machines for Paring Edges of Leather. 3046

Box Machinery of All Kinds.

PATENT METAL EDGES. Actien Gesellschaft für Cartonagen Industrie, Dresden. Sole Agents, Hugh Stevenson and Sons, Ardwick, Manchester. 6921

Durable Printing Rollers.

THE DURABLE PRINTER'S ROLLER CO., Limited, Charles-street, Hatton-garden, London, E.C. Manager, E. T. Marler

India-Rubber Endorsing Stamps.

RICHFORD, E. M., Manufacturer & patentee of Metal Bodied Rubber Type, the "Effective" Self-Inking Pads, Machines and entire plant for Rubber Stamp Making.—Established 1868, 9, Snow-hill, E.C. 5521

Paper Makers' Engineers.

BENTLEY & JACKSON, Ltd., Lodge Bank Works, Bury, Lancashire. 256

Preserved Paste for Printers & Stationers

LONDON PASTE COMPANY, Arlington-street Works, New North-road, London, N.

Printers in Foreign Languages.

WERTHEIMER, LEA and Co., 46, 47, London Wall, and Clifton House, Worship-street, E.C.—French, German, Russian, Hebrew, and all foreign languages.

Printers' Engineers.

RATOLIFFE, John and Sons, Junction Foundry, Wortley, Leeds. 2025

Printers to the Trade.

MERRITT & HATCHER, Ltd., Printers to the Trade in the City of London more than half-a-century. Litho and Letterpress; prompt delivery; moderate charges. Works:—167, 168, and 169, Upper Thames-street, E.C.; 2, Grocers' Hall court, Foultry, E.C.; 33 and 35, Moor lane, E.C.; 6, to 14, Blackheath-road, Greenwich, S.E. Telephone Numbers 5,818 and 708 (Bank), 5,626 (Central), and 1 (Deptford).

Printers to the Trade.

LONDON COLOUR PRINTING Co., Ltd., 4, Exmoor-street, Notting-hill, W. Rotaries, all-size, black and colour; Perfecting, 2-colour, English, American and French flat-bed Art Presses; Monotypes, Electrotyping, Stereotyping.

Printers.

WYNDHAM and Co., Ltd., Bolo-lane, Acton, W. PRINTERS—Letterpress, Lithographic, Colotype and Process. (Telephone No. 75 Ealing). 10330

Process Engraving.

ART REPRODUCTION Co., 3 and 4, Plough-court, Fetter-lane, E.C. Finest Half-tone Process Blocks. 6146

Steel Pens.

MITCHELL, William, 44, Cannon-st., London, and Manufactory, Cumberland street, Birmingham. 6528

Siderographic Engravers

and Printers to the Trade.

PERKINS BACON and Co., Ltd., Southwark Bridge-buildings, S.E. (late 69, Fleet-street). Bank-notes, Postage and Trading Stamps, Cheques, Bonds, Share Warrants, Die Press Headings; also Litho and Surface Printing.

Ticket Boards.

GLOBE CARDBOARD CO., Newton Mills, Hyde Park or coated, 4 sheet to 16 sheet. Large stocks, a sizes, A1 quality. Low Prices.

Typesetters' Engineers.

R. F. BANNERMAN (Established 1885), Northampton Works, 12, Cannonbury-grove, N., maker of Latest Model Type-Casting Machines, Non-Rubbing Moulds and Matrices. All Tools and Gauges used in the Typefoundry.

WOOD MILES & Co., 27, Bower-road, White-post-lane, Hackney Wick, N.E., manufacturers of Improved Type-casting Machines, Moulds, Matrices, Typefounders. Largest house in the Trade. Highest awards Printers' Exhibition, 1904.

Zanetic Copying Book Manufacturers.

PENCARBON Co., Ltd., 134, London-road, Leicester. Makers of the Patent Letter and Invoice Copying Books, enabling loose memos and invoices to be copied while writing. Duplicate books of all kinds. Samples of Zanetic paper free.

Zinc Plates.

A. LAUE & Co., Chaussee Strasse 22, Berlin, N., Germany.—Zinc Plates for Lithography, in all sizes, up to 4 by 6 ft. Zinc Plates for Process Work. 11964

Zinc and Copper Plates.

P. D. RASPE SONS, Solingen 2, Germany, for every process of reproduction, Cliches, Autotypes, Photo Engraving and Lithography. 12134

Over 2,500 are now in use and giving PERFECT SATISFACTION. ESTABLISHED 1876.
First in 1876. Foremost in 1906.

AUTOMATIC STRIKER RULING MACHINE

ALL THE LATEST AND NEWEST IMPROVEMENTS ATTACHED.

Supplied to the South African, New Zealand, and Cyprus Governments, and in all the Leading Houses in Great Britain and Ireland, one Firm alone using nearly 100 Machines.



Every Machine made of best material and workmanship and fully guaranteed THE HIGHEST STANDARD OF EXCELLENCY.

PRICES, Etc., of
John Shaw & Sons,
Striker Ruling Machine Works,
Honley, Huddersfield.

SOLE AGENTS FOR AMERICAN STRIKER PENS. The New "Gold Alloy Durable" Striker Pens. Will last a lifetime. Finest and best made. Prices and Samples Free.

Write for Particulars of our Combined Striker Machine, for Ruling and Striking with Pens and Discs. Also of our New "Imperial" Iron Disc Machine, for Faint Lining and Striking both sides of Sheets, with Automatic Feeder and Layboy.

APPOINTED AGENTS IN ALL COUNTRIES.

These Machines receive SPECIAL ATTENTION for Export. All the Wood-Work, Rollers, etc., being made of Specially Seasoned Materials, and then "Kiln Dried," in our Own Special Hot Kiln, to prevent any possibility of Warping. Iron is also substituted for Wood wherever possible.

W. R. BALLS & Co.,

WHOLESALE

Account Book and Portfolio Manufacturers

Miscellaneous

Bookbinders,

NUMERICAL PRINTERS & PERFORATORS.

SEND FOR PRICE LIST.

362, Gray's Inn Rd., King's Cross, London, W.C.

13, ROSE ST., NEWGATE ST., E.C.



THE BEST OF ALL.

TO THE WHOLESALE & EXPORT TRADE.

BLANKETS

LYE BRUSHES

FOR PRINTERS

PICK BRUSHES, LUBRICATORS

LEATHER LACES, GUT BANDS, HOOKS & EYES

AND BELTS

OIL FEEDERS

W.G. MONNERY
10, SHOE LANE, LONDON, FLEET ST.

Notice to Employees

The BRITISH and COLONIAL PRINTER and STATIONER is supplied at HALF PRICE (FIVE SHILLINGS PER ANNUM, or 2/6 FOR SIX MONTHS, payable in Advance), to BONA FIDE EMPLOYEES ONLY, in the Printing, Stationery and Allied Trades. Persons desirous of taking advantage of this arrangement must state in their application where, and in what capacity, they are employed.

ALEX. SEGGIE & SON,

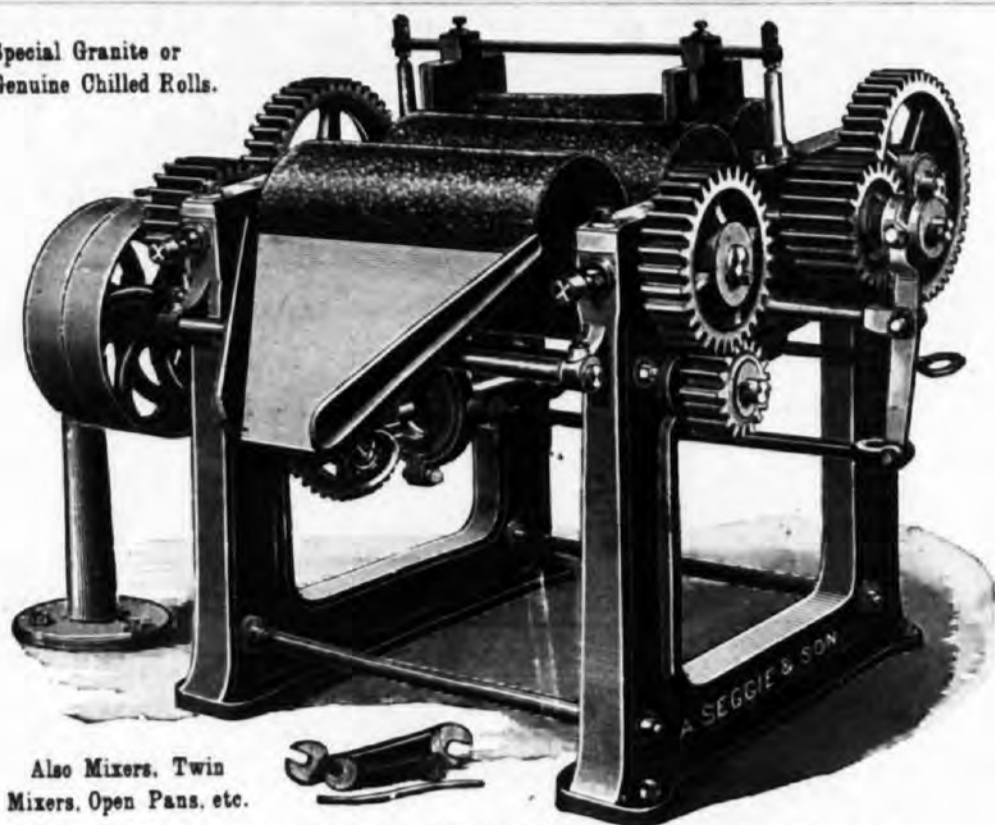
Patentees and Contractors to
Ordnance Survey, Indian, N.S.W.,
Westralian and Japanese Governments.
Established 1848.

Edinburgh.

YARNISHING, GUMMING, and SIZING MACHINES, with Automatic Hydrostatic Well, etc.

"Your 'ART EXTRA SWIFT' is the Best Machine we have ever seen."—SMITH, ANDERSON & Co.

Special Granite or
Genuine Chilled Rolls.



Also Mixers, Twin
Mixers, Open Pans, etc.

ILLUSTRATION OF PATENT No. 2 MILL WITH ROLLS 24 in. and 22 in. by 12 in.

M LAGAN CEMING (2); MACFARLANE (2); KINROSS (2);
NIMMO (2); RITCHIE (2); MORRISON GIBB; BAXTER;
GLASGOW BAIRD (3); MERRISON, THOMSON;
ABERDEEN CORNWALL (3); ROBE, AVERY; UNIVER-
SAL 41.

Varnishing and Gumming Machines.
Automatic hydrostatic well, strike,
glossed surface, drying less space, boards.
HUDSON, SCOTT AND SONS, Carlisle.—"Well pleased."

"Art Extra Swift" Letterpress.

Saves type and plates. Economical on any
class; durability, quick getting ready.
Coin balances while machine runs.

If printers compare ordinary machines,
with expensive foreign makes, the more
expensive tool more efficient.

R. TAYLOR & Co., London, St. Albans.—"Almost
entirely three colour work, our satisfaction and
our customers' also." (3).

SMITH & BIRCHIE, Edinburgh, 29-35.—"Demy 10, A.X.S.
latest, up-to-date as specification."

McLAREN, Edinburgh.—"All desired for 3 color."

INDIAN GOVERNMENT.—"Quad-Crown doing good work."
DAVIDSON & SONS, London, Aberdeen.—"Demy Folio
satisfactory 3,000; requisite quantity and quality for
good average day's work apprentice. Have run 3,600
Repeat.—Dble. Crown 2,000, 2,300, 2,500.

LEGAT BROS., Glasgow.—"Quad-Demy block, 3-colour."
Repeat order—Double Crown, 1,500 to 2,500.

WATSON SONS, Glasgow.—"Royal 2,200 two-color, larger
output than Wharfedale, most profitable."

INDICATOR Co., Redditch.—"Demy Fo., 3,000."

TOWNSEND, Exeter.—"Running at 26-2,700."

DENNIS, Scarborough.—"3 color satisfactory, 1,800 per-
fect register, double work from Wharfs."

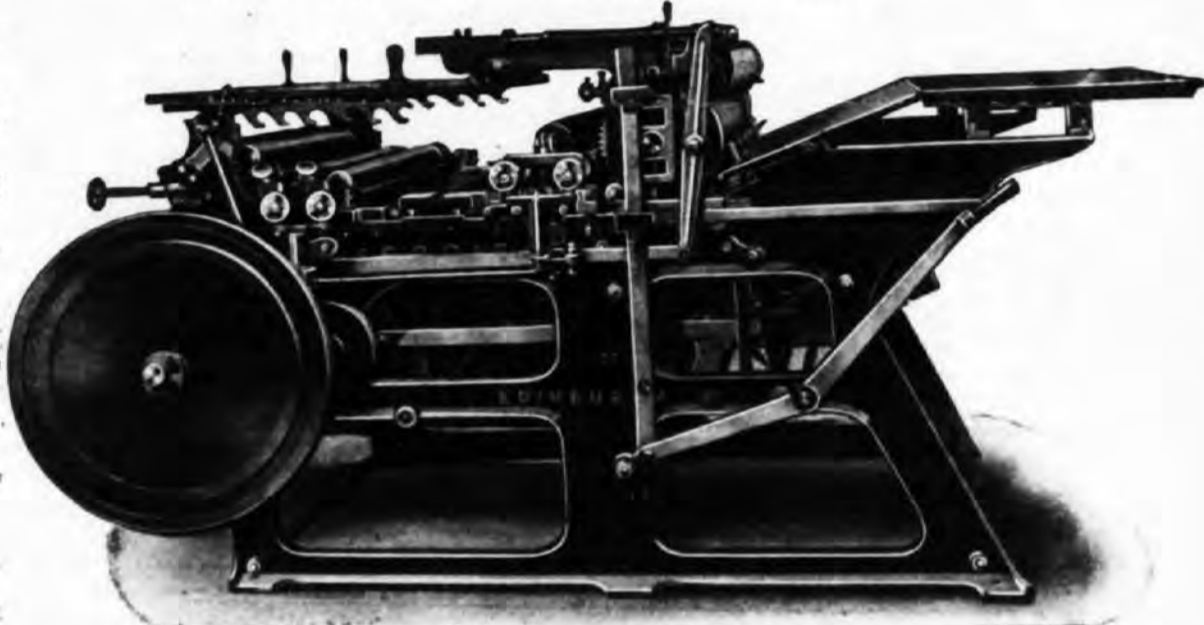
FROD C. L. WEIGHT, Glasgow.—"Two D. Crowns satis-
factory. Well-made, carefully built, 2,400 per hour."

HARMSWORTH, Lavington-street, London.—"Dble. Crown,
colour register, 2,400 per hour."

SMITH, ANDERSON, Leslie.—"Best ever seen, 2,800."

ELPHICK, Biggleswade, VOIRIN, Paris (2); SMITH, New-
castle; REED, Perth (2); COOKE, Melbourne (2);
WILLIAMS, Liverpool (2); CENNINGHAM, Alva; MAX-
WELL, Blackpool; BARRIE, Portsmouth; PITMAN,
Bath; DOWNING, Bradford; PETER, R. Birmingham;
TERPICH (2); TROSKY, Leeds (2).

ART EXTRA SWIFT PRINTING MACHINE.



ALL SIZES. DOUBLE CROWN, 1,800 to 2,700. Demy Fo. 3,500.
For Ordinary and Three-Colour Work—See Lists.

LEGAT BROS., Glasgow.—"Decidedly superior to one
we had of another make."

JAS. TOWNSEND AND SON, Exeter.—"Entire satisfaction."

GEN. STARK AND CO., 151, Reid Street, Bridgetown,
Glasgow.—"Saving 15 per cent. liquid material."

C. DAVIDSON AND SONS, Aberdeen.—"Quite satisfactory."

DUGGAN, NEEL, McCUM, London.—"Never had
Mill capable such fine work, little power, half our
other Mills require (2)."

ROBINSON, Bristol.—"Repeat.—"Put in hands duplicate,
24 by 12, guaranteed genuine chilled, No. 2."

BANKS & Co., Edinburgh.—"Repeat." 15-05.

WITHOUT APPARATUS

"Second dusting not required following
on with colour Printing."



"What hand cleaning can-
not do, the Machine can
do."

**Jas. Watson & Sons,
MANCHESTER.**

**See
Users.**



**Bronzing,
Burnishing,
Dusting,
AND
Back-Dusting.**

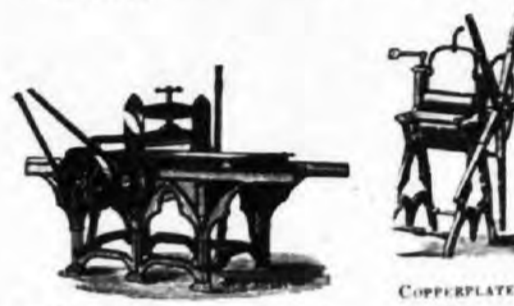
4 MACHINES IN ONE.

More made than all others put together.
SHEFFIELD: Pawson and Brailsford.
GLASGOW: Miller and Lang, &c.
Stone Grinder & Polisher!
Variable Speed Friction
Apparatus, No. 2.
LONDON: Britannia Folding Box Co.—Barclay
and Fry (5); Sir Jos. Causton (4); Waterlow (9);
Drake, Driver and Leaver, Kellher, Salvation
Army, Masawattee, Ordnance Survey.

Burnishing Machine
Printed work. Inappreciable expense,
work given brilliance.



COMBINED ROTARY CUTTER.
No. 1 LABEL CUTTER. No. 2, WITH ORBLING PLATES,
AND SIDE FRAMES. For large
envelopes.



DOUBLE MASSIVE TRANSFER PRESS.
COPPERPLATE PRESS.

SEE SECOND-HAND LIST.

Bronzing Machines.

HOME OFFICE COMMITTEE.—"Only Stanley and Seggie
accomplished both processes at one operation."

JAS. WATSON & SONS, Manchester: Bronzer satisfactory:
Rubs in, polishes, cleans both sides, economical,
no waste, works smoothly, work-room free from
dust. No second dusting following on with colour
printing. What hand cleaning cannot do, the
machine can."

HUDSON, SCOTT AND SONS, Carlisle.—"Well pleased." (6)

LEGAT BROS., Glasgow.—"Superior to other Bronzers
we have been working." (3). Also 5 Machines.

ARMITAGE AND INCHTON, Bradford.—(6) "Satisfactory."

LONDON: ALEX. COWAN & SONS (4); BARCLAY FRY (2);
BRITANNIA BOX CO.; GOODALL; CHAMBERS, Finchbury
(2); JACKSON MAZAWATTEE (3); RUTHERFORD (2); EYRE,
SPOTTISWOODE; CAMPBELL (2); GLOVER BARNES (2);
DICKINSON (2); ENDREY, Ripley (2); VINOLIA;
SANDS McDUGGALL; EXETER; TOWNSEND, BIRM-
INGHAM; DOUGSON CROWTHER; KIRBY BEARD; JEN-
NER; TABLET; BUTCHER; BOOTH; HUDSON; WHITE-
HEAD CAMBRIDGE; DEBROE; LEICESTER MIT-
CHELLS; PVE; GRIMSBY NEWS.

MANCHESTER: CARTWRIGHT RATTRAY (2); FRAGAN;
SNOW (3); COLLINS KINGSTON (2); PORTER (2);
CHORLTON KNOWLES (2); EVANS; HAYWOOD (2);
SCINER; JAS. NEEL; BLACKBURN; DEARBLY;
NOTTS; ELWIN; PRIESTLEY SWANN; FORAN (2);
STORER (2).

BELFAST: McCAW, STEVENSON, OER (3); NELSON, KNOX;
CARSWELL; BAIRD (3). EDINBURGH: BANKS (2);

400 Bronzers Made.

**PATENT FAN
AND
BRONZE DUST
COLLECTOR,
WITH
PERFECT
SEPARATION
AND
VENTILATION,**

fitted when desired.
One of these Apparatus
has been at work on
one of our Machines
for about four years.

Nothing Succeeds Like Success.

PARALOID

Patented at Home and Abroad.

ANTI SET-OFF LIQUID and POMADE.

Declared by all who have used it to be
**THE BEST FOR ALL CLASSES
OF WORK EVER PUT UPON
THE MARKET.**

Flat-Bed Perfecting Machines and Rotary Web Machines using PARALOID require no set-off reels, it proves equally effective on the finest art or calendered, as well as the commonest qualities of printing paper.

ADVANTAGES: Saving of Time in Printing (no set-off reels to break and readjust). Much cheaper than Set-Off Reels. Work turned out cleaner.

PARALOID IS NOW USED REGULARLY BY THE FOLLOWING LONDON FIRMS:

ALEXANDER & SHEPPEARD, LTD.	CLEMENTS PRINTING WORKS.	W. P. GRIFFITH & SONS, LTD.	W. SPEAIGHT & SONS.
AMALGAMATED PRESS, LTD.	W. H. & L. COLLINGRIDGE.	HARRISON & SONS.	SPOTTISWOODE & CO.
BALLANTYNE HANSON & CO., LTD.	HORACE COX	HAZELL, WATSON & VINEY, LTD.	SULLY & FORD, LTD.
BRADBURY, AGNEW & CO., LTD.	EYRE & SPOTTISWOODE.	LONDON COLOR PRINTING CO. LTD.	TEMPLE PRESS, LTD.
CASSELL & CO., LTD.	GILBERT & RIVINGTON, LTD.	LOVE & MALCOLMSON, LTD.	UNWIN BROS., LTD.
R. CLAY & SONS, LTD.	L. UPCOTT GILL	ROBERTS & LEETE, LTD.	WALBROOK & CO.

WITHERBY & Co., and many other Provincial Houses.

PARALOID is designed solely for the prevention of "SET-OFF" on machines of the perfecting class. We receive many letters daily from printers who evidently confuse it with a preparation for preventing "CAST-OFF" on printed sheets when they are printed on a single cylinder machine, one side at a time. PARALOID is not meant for that purpose, but we hope very shortly to put upon the market a preparation, to be mixed with the ink, which will get over that difficulty as effectually as PARALOID solved the Set-Off on Perfecting Machines.

SPECIAL QUOTATIONS given for Contract Quantities.

Further Particulars from the Sole Manufacturers and Patentees:

DUNCAN & Co., 28, St. Mary's Street, EDINBURGH.

NOTE—PARALOID is Protected by 5 British Patents.

Telegraphic Address: "ENLIVENER, LONDON." Telephone Number: 4786 HOLBORN.

Manufacturers of Black & Coloured Inks
For the Finest Letterpress and Lithographic Printing.

Normal Inks for 3-Colour Work a speciality.

Black Inks for Rotary Machines at exceptionally low prices for quantities.

CULROSS & CO., Ltd.,
18a, St. Bride Street, & 16, 17 & 18, Harp Alley, LONDON, E.C.

PRINTING INK MANUFACTURERS.
Sole Agents for BURBANKS' EMBOSSE COMPOSITION.

ALSO Dry Colours, Varnishes, and Roller Composition

of the Best Quality supplied at the Lowest Prices.

SPECIMEN BOOK of NEW COLOURS sent free to any Printer on application.

BULLETIN-JOURNAL des FABRICANTS de PAPIER.

Published on the 1st and 15th of each month. The French Journal for the Paper Trade. Being an amalgamation of the "Journal des Fabricants de Papier," founded 1854, and the "Bulletin des Fabricants de Papier," founded 1884. A Practical and Technical Organ for the Paper and Allied Trades, having the Largest Circulation on the Continent of any similar Trade Paper. It is published under the direction of a society composed of Engineers and Papermakers, contains Illustrated Articles on Trade Subjects, Mill News, Prices of Raw Material, Machinery, etc. Annual Subscription rates: France, £1; Abroad: £1 4s. post free. Advertisements: 1 franc (94d.), and 2 francs per line. Special Estimates and Specimen copies furnished on application to the Sole Agents for the United Kingdom, W. John Stonhill and Co., 58, Shoe Lane, London, E.C.

ANNUAL DIRECTORY OF FRENCH AND FOREIGN PAPER AND BOARD MANUFACTURERS.

(Guide-Annuaire Officiel des Fabricants de Papier et de Cartons Français et Etrangers).
Advertisements: £4 per page (Space for matter 7 by 4 inches). This work, arranged on an entirely new plan, with the active co-operation of Papermakers and Paper Mill Managers, contains (in French) a list of Papermakers, with the number of machines in each Mill and the class of paper made; also a list of Paper Merchants, Booksellers, Publishers, and a number of Illustrated Articles on Technical Subjects connected with the Paper Trade. The work is sub-divided into sections, and contains, among other information, the following:—
Raw Material, with Tables of Prices, etc.
Paper Mill Management and Accounts.
Alphabetical Table of French Papermakers.
Ditto, in Departments.
List of Railway Stations in France adjacent to Paper Mills, with the distance from Paris.
List of Foreign Papermakers.
Bleaching.
Preparation of Wood Pulp.
Sizes and Classification of Papers.
Old and New Customs Tariffs on Goods connected with the Paper Trade.
Prices of Papers.
Lists of principal Contracts for Paper placed during the year, &c.
Large div., bound in crimson cloth, gilt lettered, with numerous illustrations.

The 1905 Edition is now Ready, POST FREE 9s. 3d.

SOLE BRITISH AGENTS—
W. JOHN STONHILL & Co., 58, SHOE LANE, LONDON, E.C.

R. T. TANNER and CO., Paper Merchants and General Agents, Salisbury Sq., London, E.C.

Hold very large stock of Papers for all Trades, such as Writings and Printings, Drawings, Loans, Bank Note and Bills, Account Book Papers, Colours and Browns.

News Printings—Plate, Litho, and for every class of work. News of every quality, in Reams or Reels.

Writings—Hand-made and Machine Writings, Drawings and Account Book Papers.

Colours—Coloured and Tinted Writings and Printings, Enamelled, Surface, Marbles, Filints, Duplex, and Fancy Papers.

Browns—Middles, Small Hands, etc. Every kind of Wrapping Papers.

Tissues—Copyings, Blottings and Cartridges.

NEW SAMPLE BOOKS of ALL PAPERS NOW READY and will be FORWARDED on APPLICATION.

Boards—Mill Boards of every quality. Straw Boards and Wood Pulp.

Cards—Cards, Card Boards, Paste Boards and Mounting Boards. Photo Mounts and New Designs in Fancy Cards.

"**Scrivia**" Art Coated Papers—high Quality.

"**Scrivia**" Tinted Writing Papers.

Envelopes—Regular Series in Stock. To make to design and Paper.

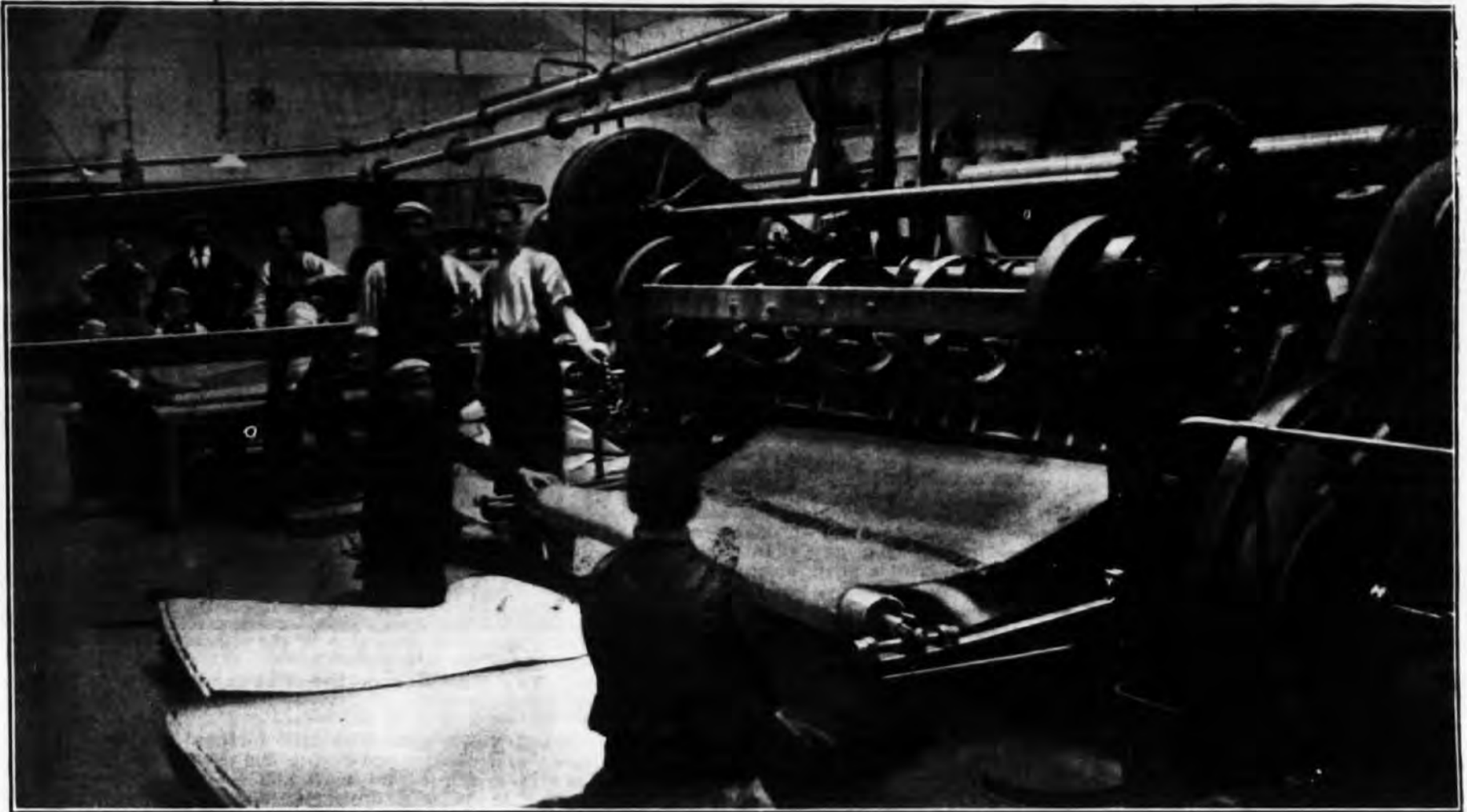
Tab-Sized Writings—Watermark "**Salisbury**."

Engine-Sized Writings—Watermark "**Scrivia**."

have been made with the substance Greaves used. One curious fact may be mentioned in connection with the matter, i.e., that the MS. History of Mill Bank contains no reference at all to it, although compiled by the son and successor in business of the medallist.

In the early part of 1792 Greaves was one of the signatories to an agreement entered into between a number of local paper-makers with regard to the prices at which their products should in future be sold, probably in order to prevent any "cutting" tactics. The document runs as follows, and it will be noticed that the names of several members of the Crompton family appear in it, including Ellis Crompton, who was possibly the founder of Mill Bank Mill:—

"MEMORANDUM OF AGREEMENT MADE this 3rd day of January, 1792, Between us within named, to sell our Papers at the Prices annexed each of them.



Cutting and Reeling Room, Mill Bank Paper Mills.

NAMES OF PAPER.	Price	Price
	per ream.	per lb.
	s. d.	d.
All Manchester White Papers...	12 0	9½
Printing Demy for Calenders...	12 0	—
All Manchester Sackings...	—	4
All Parceling Papers...	—	3
Brown Sugar House Papers...	—	2½
Large Nivance Casing, 45 by 28 in...	32 0	—
" " " cut off, 45 by 24 in...	30 0	—
Small Nivance Casing, 38 by 27 in...	30 0	—
Large Romall " 38 by 24 in...	24 0	—
Small " 34 by 24 in...	22 0	—
Large Twist " 37 by 23½ in...	21 0	—
Leeds Casing...	19 0	—
Elephant Casing...	15 0	—
New ½ Casing, 44 by 22 in...	16 0	—
Large ½ Casing...	15 0	—
Small ½ Casing...	14 0	—
Royal or Large Pin Casing...	10 0	—
½ Ell Casing...	9 0	—
Double Two pound Rope...	10 0	—
Nine Nails Rope...	7 0	—
Elephant or ½ thick Rope...	16 0	—
Sheathing Paper...	—	—
Box Paper...	—	—
Demy Sky Blue...	12 0	—
Pin...	16 0	—
All Blue from Checks...	—	8
Dyed Blue Demy...	11 0	—
Sugar Leaf Blue...	—	4½
½ Ell Purple Blue...	11 0	—
Demy "...	10 0	—
Pin "...	14 0	—
All Purple Paper from Sacking...	—	6
Demy Flat Papers...	8 0	—
Boxing "...	15 0	—
½ Ell Cap "...	9 0	—
Nine Nails "...	8 0	—
Double Two Pound Com. White...	6 6	—
Double " " Blue...	7 0	—
Double " " Gray...	5 6	—
Nine Nails " White...	6 0	—
Nine Nails " Blue...	6 6	—
Demy Stamping "...	9 6	6

Signed in the real agreement by Ellis Crompton, James Appleton, Thomas Greaves, John Crompton, James Crompton, Robert Seddon, John Livesey, Adam Crompton, James Appleton, jun., James Meredith."

Perhaps the last structural work undertaken in the time of Mr. Kerfoot was the making of Butchersfield Weir, about three feet in height (it was raised still further in 1836), which was done by the Old Quay Co. and was against the working of the wheels that served as

motive power to the paper mill. Previous to its erection, the bottoms of the tunnels were above the water level, and in 1785 the wheels ran free of water and had four or five feet of air space above the water level, so that considerable power was derived from them. By the creation of the weir, however, things were changed, until by 1844 there was five feet of "dead" water in the tunnels, so that a small flood filled them, and for want of free currents of air and water they were in this condition for an average of fourteen weeks per annum, and the power was greatly reduced. Those who are acquainted with the present condition of the water-courses in the neighbourhood of the Manchester Ship Canal will perhaps be surprised to learn that salmon were often captured in these tunnels in days gone by. When the mills were working, the salmon shot upstream, a gate was then closed at the bottom end, the mills stopped, and the salmon

In 1793 an engine house was erected at Mill Bank and a steam engine placed in it, an early example of the adoption of steam power in a paper mill. The house and plant cost £800, but after running for ten years the engine was sold to a Mr. Whitley, of Warrington, for £300, with which amount a new rag engine and vat were put down.

Mr. Thomas Greaves, who had been the moving spirit at the mill ever since the start 43 years before, died on January 19th, 1799, in the 61st year of his age, and was buried in Carrington Chapel, a couple of miles north east of Mill Bank, his wife following him to the grave three years later. There can be no doubt that he principally contributed to the success of the mill in its early days, steadfastly continuing his connection with it through all its many changes of ownership. It is worth noting, however, that the records of the place bear witness to the fact that there was at least one other man who

of service in a paper mill which we should think it would be hard to beat in either past or present times, although some of those working at the mill to-day can remember when paper was made there by hand. In fact the establishment seems to be an excellent training ground for



Medal Awarded to Thos. Greaves

papermakers, and the late Mr. Thos. Wrigley, of Bury—who, as one of the largest papermakers of his day, well knew what he was talking about—said on one occasion that he always liked Mill Bank men, as they were all-round papermakers, and could do anything.

At the death of his father, James Greaves, then in his 21st year, took the management at Mill Bank, and continued in that post until the death of the owner, Mr. Kerfoot, in 1808, when young Greaves bought the Paper Mill, the general aspect of which at this period will be gathered from the facsimile we give of a water-colour drawing, representing the establishment as it appeared in 1810. He also acquired an interest in the adjoining premises, formerly used as slitting and rolling mills, but since 1796 as corn mills, the slitting and rolling establishment being removed to Liverpool (where the elder Greaves, Kerfoot, and a Mr. Bateman carried it on), as it was found too expensive to convey the iron from Liverpool to Partington. The corn mills were burnt down in 1796, but at once rebuilt, and from 1803 carried on by

Kerfoot, the younger Greaves, and a Mr. Marshall. On the death of the first-named his share was sold to a Mr. McNiven, who thus took his place in the partnership. In 1810 the mills were again burnt down and Mr. McNiven subsequently tried to induce his partners to sell out to him, but without success, as James Greaves considered that his paper mill might be materially injured if he disposed of his share in the other property. McNiven proved very obstinate in the matter, and applied to the Court of Chancery to compel Greaves and Marshall to sell out. A very expensive litigation, lasting for some years, was the result, and ended in a compromise, the three partners agreeing to let the premises at an annual rental, which Greaves fixed at a price he was convinced nobody would pay. This seems to have actually happened, and after the deaths of McNiven and Marshall the place got into a very ruinous state.

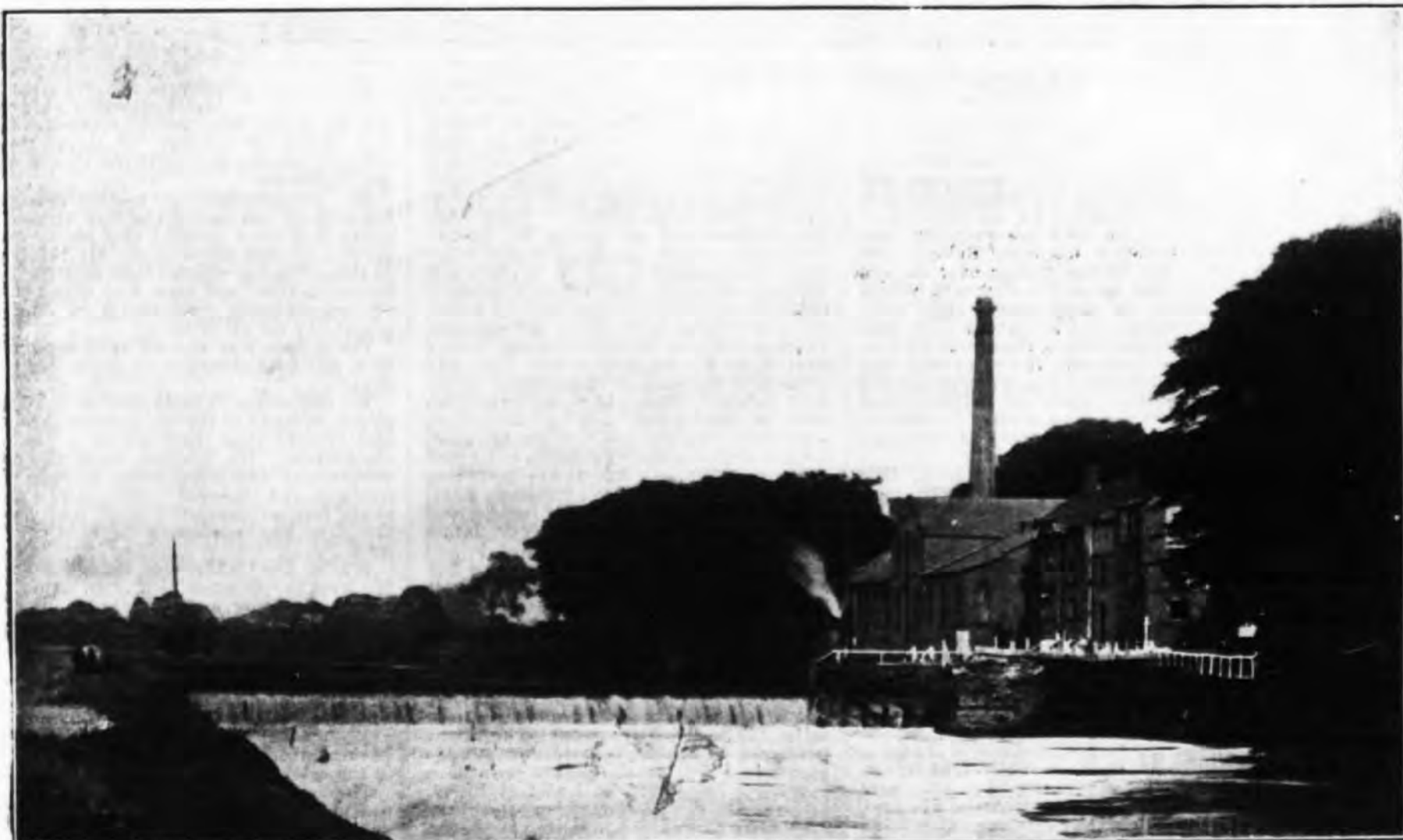
We now return to the paper mill, which was carried on by Greaves alone for many years, though subsequently he took his nephew, Mr. Thos.



Coin Discovered in Foundation of Old Mill.

thus left dry on the rock, when the men killed them with the beaters used for washing the felts. A memo. in one of Thomas Greaves' books recorded the fact that on a certain morning he caught 208 lb. of salmon in the slitting mill tunnel!

had an even longer connection with the mill, longer than perhaps anybody else, viz., John Pollard, who, born in 1760, entered the service of Mr. Titley at Mill Bank thirteen years later, and was still working at the mill in 1844, seventy-one years afterwards! This is a record



Mill Bank Mills from the River, showing the Weir, Lock, &c. (An Old View, taken prior to the construction of the Ship Canal.)

Ockleston, into partnership. This gentleman was the son of a currier and tanner at Mere, Cheshire, whose family had been in that trade there since the time of Queen Elizabeth, and was possibly descended from the Ocklestons, of Ocklestone, a village near Middlewich. Thos. Ockleston continued to be a partner in the tanning business after he came to be proprietor of the paper mills, and built a new tannery and bone manure works at Massey Brook, Cheshire. Thus towards the close of his life he worked the two paper mills at Mill Bank, two tanneries, and two farms. He divided his time between his well-kept-up establishments at Massey Brook and Mill Bank Hall, the latter being at present unoccupied and so dilapidated that it is rapidly going to ruin. With reference to this place, it will have been gathered



Messrs. Ockleston's Trade Mark.

from what we have said in the earlier part of this article that Mill Bank was looked upon by former owners of the property as an excellent residential, as well as manufacturing site. Mr. I. Blackburn made considerable alterations and additions in 1793, at which time he married Miss Kerfoot, and it is also recorded that a vinery was built in 1778. The establishment maintained by Mr. Blackburn was evidently considered locally to be a very large one, as full details are given of the number of male and female servants kept, etc.

James Greaves died in 1855, when Mr. Ockleston took over the mills

those days, was sufficient to mark him out as a man different from most of his fellows. Indeed he seems to have been not so much of a worker as either his father or his nephew and successor, being more addicted to a life of leisured ease, and to seeing that his own private establishment was well kept up. He lived in what some people call the bad old days of Protection, when the paper trade flourished and paper men grew rich, foreign competition being practically unknown.

It must have been about this time that some beam work was put up for carrying the beating engines over the two water wheels, a job that was carried out by Mr. Makin, the present senior partner in the firm of Wm. Makin and Sons, steel tool manufacturers, Sheffield, who worked as an engineer in Manchester until he was about 24 years of age. Mr. Thos. Ockleston bought the site of the corn-mill just alluded to and built a paper mill on it, spending a large amount on enlarging the old tunnels and putting in some big new water wheels. He also put down a 90-in. machine, considered a very large one in that day. In fact, this 90-in. Fourdrinier M.G. machine serves all their requirements at the present time, though, of course, it has been thoroughly overhauled of late years, new cylinders having been added, new double engines put down for driving purposes, etc.

Mr. Thos. Ockleston died in 1866, the day after the present managing partner of the firm, Mr. T. S. Ockleston, was born. The old gentleman went up to see the mother (who had been a Miss Greaves) and said, "Well, Anne, so there is another little papermaker!" Soon after returning from the office next day he was seized with apoplexy, and died in a few hours. He was a very upright and honest-dealing man, though very exacting. The prosperity and ease of his predecessor in the ownership of the mill did not entirely fall to his share, although he left a good deal of property at his decease. Notwithstanding that he was a Churchman, he rebuilt the Wes-



Photo, J. Ingham & Sons, Sale.

The Mill House, the Residence of Mr. T. S. Ockleston, who is standing by the Motor Car.

premises, which have been still further altered and modernised during the past 12 years. While the workmen were engaged in pulling down a part of the old place, the silver coin of which we give a facsimile was found among the foundations. It is a doubloon struck in the reign of Charles III., "King of Spain and the Indies," and by a curious coincidence is dated 1778, the year of the birth of James Greaves, the founder of the present firm. The water-power was sold to the Manchester Ship Canal Co., whose works were then in progress, and a new motor was put down, in the form

The latest development of Messrs. D. and S. Ockleston's business is the manufacture of "kraft" papers, instituted two years since, with the view of providing an efficient English substitute for the imported varieties of this well-known kind of wrapping paper, hitherto largely made in Scandinavia. In addition to these, the output of Mill Bank Mill, some 65 tons per week, includes, besides rope browns of all descriptions, pure rope cutlery papers, glazed and unglazed, yellow grocery browns, tough mill wrappers, small hands, envelope, reel and bagpapers, and jacquard middles. Though not exactly an ideal spot for foot passengers to stroll out to, Irlam being the nearest passenger station, the mill is well situated as regards facilities of carriage for raw materials and finished paper. The Ship Canal is close by, from which Manchester and Liverpool (on any points between), and from either of them practically all parts of the world, are easily reached by water. We give illustrations of some typical ship canal views, taken in the vicinity of the mill. In case of urgent despatch, goods can be sent by rail from Heatley station, on the London and North-Western Railway.

In conclusion, we may give a brief account of the festivities alluded to at the commencement of this article, which were presided over by Mr. T. S. Ockleston, who was supported by Dr. Jago, Messrs. Geo. W. Worthington, Anderson, and J. Worthington. A capital meal was served, and as the dishes were handed round, Mr. Ockleston was the recipient of hearty congratulations on the firm's splendid record, and numerous wishes for its continued prosperity.

On behalf of the employees, Mr. W. Ackersley proposed a vote of thanks to the firm for their generosity, and asked all present to show their appreciation by giving three cheers for Mr. Ockleston.

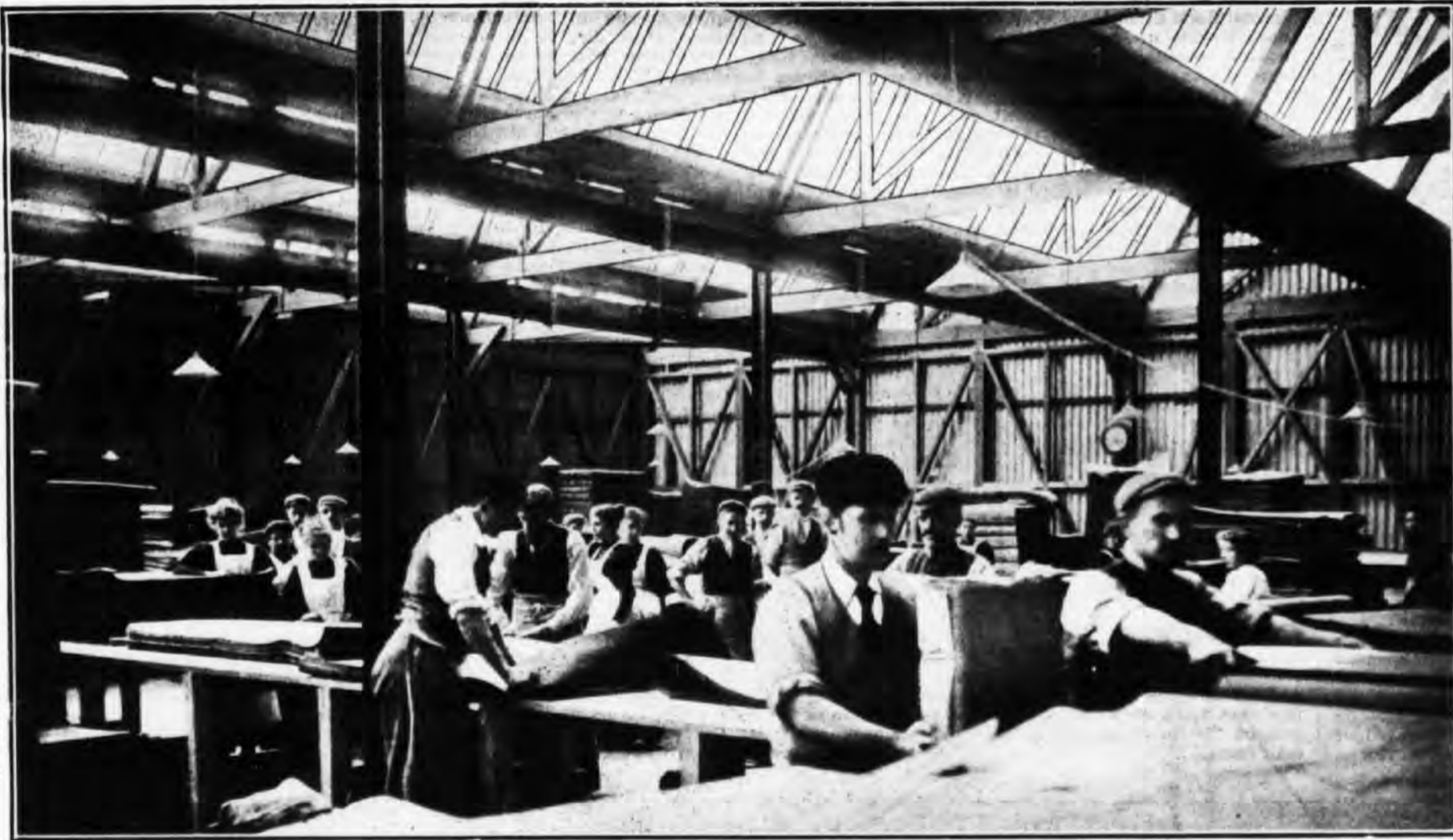
Mr. Jones seconded the motion, remarking that he had known the firm for many years, and more upright and better employers he had never met. He referred to the amicable relationship existing between master and man, and hoped that the approaching year would be one of prosperity for all of them.

The motion was carried with acclamation, and loud cheers were given for the firm.

Mr. Ockleston, in reply, said he rejoiced to see so many of the workpeople present and trusted that they would all enjoy themselves. He touched upon the developments which had taken place in the business, and observed that in spite of the acute foreign competition of late years the firm had succeeded in holding its own.

Whilst the table was being cleared the workpeople assembled in an adjoining field to witness a pyrotechnic display, after which a return was made to the room. During the evening songs were interpreted by the employees of the firm. Dancing followed, Mr. J. Howarth Ryder, of Altrincham, presiding at the piano. The proceedings were of a highly enjoyable character, and the occasion will long be remembered by those who participated in the celebrations.

The firm have since received many congratulatory letters and telegrams from various sources, including one from P. Egerton Warburton, Esq., of Arley Hall, Northwich, the Lord of the Manor in which the Mill Bank district is situated. This gentleman always displays a kindly



A Corner of the Salle, Mill Bank Paper Mills.

entirely, by arrangement with the trustees of the will, who were empowered by its provisions to deal with the business in such way as they thought fit. We reproduce herewith, from a pair of oil paintings in the possession of the present owners of the mill, portraits of both these gentlemen. Greaves, although himself a childless widower, left several brothers and sisters, two of the latter being married to members of the Ockleston family, owing to which alliances the grandfather of the present owners became possessed of the property, which has ever since remained with his descendants. We had occasion to mention just now the long periods of service enjoyed by some of the hands employed at Mill Bank, and there were evidently many workpeople, at the time of James Greaves' death, who had been with him for a number of years. He did not forget these, as his will provided for the payment to all such as had been in his service twenty years or upwards of the sum of twelve guineas each, whilst those who had been with him from ten to twenty years got eight guineas each, and all the rest four guineas each. There were also four specific legacies of £50 each to old employees, and forty relatives profited by his demise. James Greaves had the reputation of being a rather autocratic personage. He owned all but a small part of his own particular corner of the world, and when the fragment that he did not possess came into the market he bought that too. Somebody asked him why, to whom he drily remarked that he intended to be "Cock of his own dunghill." He, however, twice refused a county magistracy, a fact which, in an aristocratic county like Cheshire was in

leian Chapel in the neighbouring village of Partington. Mr. T. S. Ockleston, in his earlier days, took the Sheffield round of the firm, and well remembers the respect and esteem in which his grandfather was regarded by all who knew him. When he died his property was divided between his sons Robert and Thomas, the former taking over the old mill and the latter the new one, which he worked in partnership with some other persons. Later on the new mill was burnt down, when Thomas Ockleston and his partners sold the ruins and site to Mr. Robert Ockleston, who rebuilt the works. This done, the old mill was shut down and used as a store. In 1892 it shared the fate of its one-time neighbour, being destroyed by fire.

Mr. Robert Ockleston had been, like his father, bought up in the family tannery at Mere, and served a pretty drastic apprenticeship, his position as a member of the family not preventing him being expected to go to the tan pits at 5 a.m. on winter mornings for the purpose of breaking the ice and turning over the hides, etc. He was only 19 when he came to be apprenticed at Mill Bank, and the change from hides to moulds, wet felts and hydraulic presses, must have been a change indeed. Of a rather adventurous turn of mind, he was fond of planning boating expeditions on the neighbouring water-courses, and it is remembered that on one occasion he and another apprentice shot the weir when the water was a little too low, with the result that his companion went overboard, though young Ockleston managed to right the boat and pull him in. After the fire of 1892 he once more undertook a complete renewal of the whole

of a horizontal tandem engine, by Messrs. Scott and Hodgson, of Guide Bridge, with a 24-in. h.p. and a 36-in. l.p. cylinder, from which most of the driving is done by ropes. Gas lighting gave way to the electric light early in 1894. Soon after the completion of the works, Mr. Robert Ockleston retired, spending many years abroad (he is still living in Wales), and leaving his sons, Mr. Charles Duncan Ockleston and Mr. Thomas Stuart Ockleston (the present partners) in the business. These gentlemen have since made further alterations and improvements, and have uniformly pursued a thoroughly up-to-date policy. Thus, old though the business is, the plant and methods are absolutely modern, and find employment for about 100 hands. In 1898 a good deal of fresh plant was put down, including a 10-ft. drying cylinder by Messrs. Bentley and Jackson, of Bury, a ripping and winding machine by Messrs. James Milne and Son, Ltd., of Edinburgh, and a boiler, with a working pressure of 200 lbs. per square inch, by the Oldham Boiler Works Co., Ltd. Two paper-bag making machines, by Messrs. Strachan and Henshaw, Bristol, were also put in, though as a general rule Messrs. D. and S. Ockleston prefer to sell bag papers to makers of that line of goods, rather than manufacture the bags themselves. A new salle, 135-ft. by 70-ft., was also built, the basement of which is used for storage purposes. During the past 3 months a revolving boiler, 26 feet by 8 feet, by W. Lord, of Bury, with a working pressure of 140 lbs. per square inch, has been put down. We give a general view of the mill from the waterside, and also one of the Mill House, the residence of Mr. T. Stuart Ockleston.

consideration for the tenants of the Manor, a feeling which, on the present occasion, the firm recognised by sending him a congratulatory address. In his reply, Mr. Warburton expressed the hope that the celebration had been a pleasant one, that might often be repeated.

We trust so, too, though, of course, it would be looking rather far ahead to now anticipate the next, or fourth, jubilee of the foundation of the mill. In any event, however, we feel sure that our readers and the trade at large will join us in tendering hearty congratulations to Messrs. D. and S. Ockleston on so interesting an event, and in wishing them an uninterrupted course of prosperity in the future.

A New Rapid Letter Copier.

Time and Trouble Saved a Hundredfold.

Your old copying press and letter book must be discarded now if you wish to be abreast of the times and go one better than your competitor. To accomplish more work at a less expenditure of time and trouble is the aim of all progressive and successful businesses, and in no department will a minimising of the time spent on the necessary minor duties be better repaid than in the clerical office. The means being now provided for accomplishing that daily essential, the copying of letters, a hundred times faster than hitherto and at less cost, it is obvious that the old process will quickly be cast into the limbo of antiquated things, to be superseded in every up-to-date office by this new money-saving apparatus.

The "Quadruplex" Rapid Rotary Copy Letter Press, as it is termed, is a compact little machine, measuring 12 by 12 by 14 inches only, really taking less space than

with the ability to produce ten times the output in one-tenth the time at less cost, as is claimed for the Quadruplex Copier, it will soon pay for itself in a clerk's time and money saved. A good investment like this for either large or small concerns makes it an excellent novelty for the printer and stationer.

The Quadruplex Rapid Copy Press has just been brought out by the Quadruplex Company, of 14 and 16, Scrutton-street, London, E.C.

Advertising Calendars for 1907.

A sample set of advertising calendars for 1907 reach us from the well-known Aberdeen firm, Messrs. Paterson, Mitchell and Dawson. There is considerable variety, and plenty both in attractive novelty and good finish at low prices to induce a large trade.

Among the wall pockets No. 100 is an oblong card (13 by 11 inches) with oak design embossed in green and gold, and surrounding a large pocket in the centre of which are mounted assorted beautiful three colour pictures. The next number is an upright design (12 by 7½ inches), the pocket occupying the lower half, on the front of which the advertisement appears, and in the upper space is an oval head study of a beautiful woman, excellently printed in three-colour half-tone. Plain embossing adds a nice finish to the calendar. Another upright calendar (14½ by 8½ inches) is decorated with an artistic floral design printed in green on a toned card, a pocket being fixed at the base with a shaped top edge, and in a frame in the upper half are either of the following high-class half-tone pictures:—"The Village Shoemaker" (trade picture), "So near and yet so far" (trade picture), "Music hath charms," "Good Night," "Redding

Telephone: 761 Holborn. Telegraphic Address: "Wiborg, London."

ALL BLACKS

The MOST and BEST

ARE MADE BY

The AULT & WIBORG Co.,

4 & 5,

ST. JOHN'S SQUARE,
LONDON, E.C.

From News Black at 3d. per lb.

CLEAR ALONG THE LINE TO

Finest Proving half-tone Blacks

at 21/- per lb.

We specially recommend our

INDEPENDENT JOBBING

at 6d. per lb. in Casks,

LESS QUANTITIES HIGHER IN PROPORTION.

Farringdon Book = = 11d. per lb.

Magazine Half-Tone = 1/3 "

King " = 1/9 "

Country Life " = = 2/6 "

Factories also at:

CINCINNATI. NEW YORK.

CHICAGO. ST. LOUIS. TORONTO.

BUENOS AIRES. MEXICO.



The "Quadruplex" Rapid Rotary Letter Press.

a screw copying press. It is even more simple to operate, for there is no brush, no oil sheets, and no rags, and by the mere turning of a handle it accomplishes its work without blurring, and necessitating no indexing of letter books. No preparations of any kind are necessary, it being always ready, and letters can be run through it at any time singly or in batches. It will copy from almost any size of paper, from a post card upwards. The letter, no matter whether typed or written with pen or indelible pencil, comes out copied perfectly, neither blurring the copy nor the original. Indeed, the pressure is so even and light that it allows of one to six copies to be taken from a single original, while hectograph ink and ribbons will produce twelve copies and more. As to the speed copies may be taken at the rate of 20 in a minute, without spoiling the original.

No skill or strength is required to work the Quadruplex Copier, a boy or girl being able to do it single handed. All the operation necessary is to feed the letter into the rollers and then turn the handle. The paper, which is in the shape of a roll underneath the machine, becomes practically dry as soon as it comes out of the press. A cutter severs it into sheets of any desired size, and it may then be filed away with the correspondence, thus saving trouble of indexing a copy-letter book, and at the same time making reference easy. These copying paper rolls are supplied 600 feet long, equalling a 1,000 sheet copy-letter book. The paper is extra strong and tough, so that it can be handled without tearing, and it takes the ink up instantly without blurring or spreading.

Now with regard to cost, the price of the machine is £4 17s. 6d. net, with a guarantee of good quality and workmanship, and the purchaser's right to return it within six days if it will not do the work claimed for it. The paper is priced at 3s. 6d. per roll of 600 feet, or 40s. per dozen rolls, buff or white, a considerable reduction on the cost of a copy letter book. Altogether it will be seen that

the Line," "Dolly's Washing," and "The Happiest Night." Another oblong design (12½ by 9½ inches) with shaped top, has mounted in the upper part, amongst other good half-tone pictures, one entitled "Robin Tamson's Smiddy," and others called "The Lazy Horse," and "Toss."

Other good novelties include a blotter (11 by 8½ inches) with artistic cover and assorted pictures. An effective panel encloses the advertisement and inside the cover is postal and general intelligence and standard weights and measures. There is a fine assortment of flat printed calendars in oblong and upright designs and in various sizes. Some have plate sunk mounts with good half-tone pictures in three-colour or monotone, and some have photochrome views of local scenery. It may here be mentioned that the firm can supply views of scenery of every county in the United Kingdom, and as far as possible endeavour to comply with customers wishes in this respect without binding themselves however to supply any particular view. A good trade calendar in two colours is No. 111, an upright design (9½ by 7 inches), with the arresting word sat the top, "What to Buy and Where to Buy it." There are also shaped and mirror designs, blocked in silver or gold, as well as a good selection of gold and silver blocked desk calendars, in all manner of shapes, sizes and attractive designs, with either monthly tear-off slips or slip in date cards. Among these is a useful little pocket mirror calendar (3½ by 2½ inches) covered in cloth, with lamp-lighting table, and effectively stamped in gold.

Those interested in these widely-selling advertising novelties should send to the firm for their list, which gives the prices of each article, which are subject to 25 per cent. discount. Samples will be sent carriage forward and charged for, but allowed if £5 business is done per set. It may be added that the firm have a job line of advertising calendars, being remainders from previous year's issues, which they are offering at less than cost to clear, but orders for these should be placed at once to avoid disappointment.

THE Lewisham Guardians have accepted the tender of Messrs. E. T. Berryman and Sons, of Greenwich, for the supply of printing, stationery, and Local Government books for the ensuing twelve months, subject to the firm signing a declaration as to the payment of fair wages.

CHROMO ALMANACS, 1907

Large Variety. Choice Designs. Sample Set (to take orders with 15/-, allowed when £5 business is done.

TAYLOR BROS., THE TRADE PRINTERS, Leeds

Estimates free for work of all kinds. Enquiries Solicited.

THE Latest in Real Photo Post Cards.

To their well-nigh exhaustless collection of picture post cards in the shape of the best of real photographs, new cards presenting new subjects, or fresh variations of a popular old subject, are continually being added by the Rotary Photographic Co., Ltd. A recent visit to their London show-rooms at 12, New Union-street, Moorfields, E.C., revealed to our representative many admirable novelties, chosen with a judicious eye for the

Gaiety girls fishing. A leading actress of many charms in different poses as "Cupid" is decidedly attractive, as also are the photographs of Miss de Vere, a popular French actress. Marion Winchester is the subject of an addition to the actresses, and there are many new poses of Marie Studholme, Gabrielle Ray, and the sisters Phyllis and Zena Dare, which are three of the best sellers, and naturally are the most numerous represented. There is an interesting photograph of Mrs. Walter de Freece (better known as Vesta Tilley) and her husband. A new photograph of Ellen Terry will be sought after by her many admirers, and other new photos of popular actresses in-

NEWCASTLE-ON-TYNE PRESS BOWLING CLUB.—There was a large attendance of members at the annual meeting of the Newcastle Press Bowling Club, at the Black Bull Inn, Barrack-road, the other evening. The chair was occupied by Mr. E. Hilton, and the proceedings were of an enthusiastic character, which it is hoped will eventuate in the club making a better show this season in the Crawford Smith Cup—the blue riband of the Wednesday afternoon players—the possession of which the "Press Gang" have not as yet acquired; but, previous failures notwithstanding, they have determined to make a bold bid for it this time, Messrs. R. Bond, G. Metz, R. Atkinson,

tions by members adopted. Mr. R. Redpath (manager, *Journal*) was again unanimously elected president. It was agreed that the number of competitions be the same as last year. The election of officers for the ensuing year resulted as follows:—Chairman of committee, Mr. E. Hilton; secretary, Mr. H. Moore; assistant secretary, Mr. J. Elrod; treasurer, Mr. W. F. Armstrong; committee, Messrs. R. Cummins, R. Common, E. J. Dixon, W. Bond, J. Horsley, H. Scott, G. Lyall, G. Kent, and P. Know; handicapping committee, Messrs. T. Rodger, C. Smith, and R. Atkinson. We note the very lengthy title of the young and vigorous trade society, the



1639 P MISS PAULINE CHASE. ROTARY PHOTO. E.C.



L3 LONDON, BIG BEN. ROTARY PHOTO. E.C.



1971 A ROTARY PHOTO. E.C. MISS PHYLLIS DARE

Some of the Rotary Photographic Co.'s Post Cards

public taste, and it should be remembered that the firm have unique opportunities for gauging the popular demand with their very representative collection, embracing as it does every possible subject that could be photographed, and circulating as their cards do everywhere—north, south, east and west. Customers would be well advised to take the firm's advice, when laying in stock, as to what are the best selling lines at that particular time, for public taste is a somewhat fickle thing, changing with the suddenness and in the seemingly unaccountable manner that the weather has lately given some remarkable examples of. The other day it was those beautiful, soft, artistically effective "matt" cards that were all the vogue. Now they are taking second place in the public appreciation for a time, and the showy "glossy" cards are decidedly engaging public attention. Both styles are equally good from the photographic point of view (the latter may perhaps be better dust and dirt resisters by reason of their shiny, polished surface), and nearly all the same subjects may be had in both. However, just now attention is riveted on the "glossy," and so the "glossy" we will refer to in the following brief particulars of a glance through several huge volumes of an overwhelming number of specimens of these interesting photo studies that a patient young lady kindly displayed to the bewildered gaze of the writer. It would be impossible to enumerate, in the space at our disposal, even all the subjects that are dealt with in this monster collection. It must suffice to point to one or two characteristic lines, and particularly those to which new photographs have just been added. Of course, actresses and actors are *facile princeps* in this firm's productions, their collection being second to none either in quality or representativeness. They may be had as single photographs, pair photographs (among which are celebrated Theatrical Sisters), triple series, fivefold series (five poses of the same actress), and groups of a still greater number of actresses on one card. Some of the latter are very artistically arranged with floral ornamentation, and accompanied with a very puzzling question to an admirer of feminine charms, such as "Which is the sweetest?" or "Which one do you like best?" "Which smiles the sweetest?" We should imagine the average young man would reply to the query, "Which takes your fancy?" with the expressive monosyllable "all." These are the cards that are bringing custom to the retailers' counters. A smart card is a group of

clude Gaynor Rowlands, Mary Moore, Evelyn Millard, Gertie Millar with Edmund Payne in the "Spring Chicken," Mabel Love as she appears at the Coliseum, Millie Legarde, a very nice portrait of Mrs. Kendall, Evie Greene in "The Little Cherub," Lilly Flaxmore (posing in some remarkable contortions), Lily Elsie in "The Little Cherub," a special series of Zena Dare cooking, Camille Clifford, Pauline Chase in "Peter Pan," Eva Carrington (who recently attained extra notoriety by marrying a peer), etc. Among actors there are some capital studies of Bransby Williams in various Dickens' characters, and some extremely comical portraits of Little Tich. Vocalists and musicians have additions in a fine new portrait of Clara Butt, and of Marie Hall. The Houses of Parliament, interior and exterior, are finely portrayed in a series of six views of each, and there is an interesting selection of portraits of Members of the new House of Commons, those of John Burns snapshotted in his official uniform are delightfully characteristic of a busy Minister. There is a new portrait of the King, as well as an historic one of the King and Queen opening the new thoroughfare, Kingsway. There is an admirable and extensive selection of children studies. "Sunbeams" is the appropriate title for some pretty little pictures of babies heads. Then there are nursery rhymes on the days of the week, and on the five senses, all appropriately accompanied with a child study. There are a lot of new greetings out, taking various forms, those accompanying views of different towns being attractive lines. The alphabetical sets with miniature heads of actresses on block letters are very tastefully arranged. And the cat and dog studies are a large and charming series. The firm have produced a fine collection of birthday cards in new designs, as well as some ingeniously conceived Easter designs. Their selection of Christmas photo post cards sold well last season. A quite new style just introduced is a packet of "River and Seascapes," in the form of little photographic studies with large white borders. In conclusion we would point out that in addition to the matt and glossy styles in black and brown, there are aluminium bromides, red and blue carbonotypes, both very effective, the latter being quite a new colour, and some very daintily hand-tinted glossy and matt photos, as well as some strikingly attractive red and green coloured glossy portraits, and a selection of designs in tinsel. Retailers should not delay to write for the firm's comprehensive catalogue.

and T. Rodger being elected as skips for the competition. The secretary's report showed that there was already an increase in the membership compared with the previous year. Various amendments of rules were made, and several sugges-

"Machine Rulers', Vellum Binders', Letterpress Bookbinders, and Cloth Workers Overseers' Association" has been shortened to the "Machine Rulers', Bookbinders', and Allied Trades Overseers' Association."

Years Ago The LINOTYPE

established its reputation in the Newspaper Offices of the WORLD, and maintains it.

To-Day The LINOTYPE

has established a reputation amongst Book and Magazine Printers.

Every Class of Matter

All Faces, and all Sizes, set at Minimum Cost and Maximum Efficiency.



ONE MAN and ONE MACHINE do ALL the work.

Linotype and Machinery Ltd.

Offices: 188 & 189 FLEET STREET, E.C.

TELEGRAMS "LITHO, LONDON."

LITHO. PRINTING TRADE.

Up-to-date Plant
Modern Methods
Engraving, Copper Plate Printing, &c.

TOM BROAD, 76-78, Clerkenwell St. LONDON, E.C.

TELEPHONE: HOLBORN 381.

A NOVELTY in printing for blind people has been brought out by the Braille Printing Co., Edinburgh, in the form of books made of thin aluminium sheets, instead of paper, embossed in the usual manner. It is claimed for these books that they are easier to read than paper books, especially by those who have become blind late in life, or those whose fingers are not very sensitive.

RAPHAEL TUCK & SONS'
New Postcard Competitions
£ 5,500 IN PRIZES
DEALERS INCLUDED

PARTICULARS
will be announced next Month

ARTISTIC SERIES

THE MOST WELCOME, ARTISTIC, and UP-TO-DATE.

Splendid new lines of "TUCK'S" Post Cards are now being issued for the Season.

An unprecedented range of highly original Christmas and New Year Cards, Calendars, Toy Books, and Novelties will be ready early in May.

Every up-to-date dealer will make a point of seeing our productions before making his selection.



Complete Lists will be sent on application to:—

RAPHAEL TUCK & SONS, LTD.,
 Raphael House, CITY, LONDON.

FINEST STEREO MOUNTING BOARDS
 IN MAHOGANY KAURI PINE AND OAK
 PRICE IS RIGHT SEND FOR LIST
J.R. THOMPSON & CO.
 HIGH COURT LANE LEEDS.

MASON'S 8-to Pica, 7d. per lb.
ACCURATE 6 to Pica, 5d. per lb.
LEADS.
 4-to Pica, 4d. per lb.
 Established '50.
 5, DOCWRA'S BUILDINGS, KING HENRY'S WALK, BALL'S POND, N.

Telegrams, "LETTERPRESS, LONDON."
 Telephone No. 852 HOLBORN.

DALZIEL'S
 Fine Art Hard Metal Stereotypes
 AND
DALZIEL'S
 Patent Twin-Clamp Stereo Blocks

Price Lists, Samples, Estimates, and all further particulars on application to
DALZIEL FOUNDRY, Ltd.,
 2a, Plough Court, Fetter Lane, E.C.

HUGH IMLAY & Co., Ltd.,
 Envelope Manufacturers,
 WHOLESALE, EXPORT, AND
 MANUFACTURING STATIONERS,
 PARK ROAD WOVEN, ABERDEEN.

ENVELOPES
 In all Sizes & Grades, Shapes & Qualities,
 Folded by Special Steam Machinery.

Wholesale for Large Quantities, Samples & price free | Telephone Address: ENVELOPES ABERDEEN | Colonial Agents: Through usual Merchants

G. & T. CARLYLE, LTD.
 MANUFACTURERS AND CONTRACTORS TO HIS MAJESTY'S STATIONERY OFFICE.

CARBONICS Excel All Others. **MANIFOLD COPYINGS** Transparent and Tough.

OILED ROYALS, Thoroughly Well Seasoned. **TRACINGS.** Strong and Transparent. Manifold Writers, Manifold Pens, Duplicate Books, Agate and other Styles. Oiling done for the Trade.

CARLYLE'S Registered **T G M** THICK GLAZED MANIFOLD. For Permanent Manifold Writing and Copying it Handles Like a Bank or Loan Paper.

DRYING ROYALS Of Special Strength. Colonial & American Agencies invited. Information & Samples upon Application. Sole Inventors and Manufacturers of BLUE BLACK CARBONI PAPER—a perfect substitute for Good Black Ink.

G. & T. CARLYLE, Ltd, 116, Duke Street, LIVERPOOL. SHIPPERS & WHOLESALE HOUSES LIBERALLY DEALT WITH.
 London Address: 138, UPPER THAMES STREET, E.C. WHERE STOCK IS KEPT.

H. SILVERLOCK,
Electrotyper and Stereotyper,
 92, BLACKFRIARS ROAD, LONDON.

Electrotyper of Bookwork, Periodicals, Music, Woodcuts, Newspaper Headings, mounted on Wood or Solid Metal, Electro Blocks, extra thickness for Bookbinders. Silver, Brass and Nickel Facing Engravers' Metal. Matrices.

ESTABLISHED 1874
G.H. MADDIN & CO. LTD.
 PATENT & BLOCKING FOILS & BLOCKING PAPERS
ARTISTS ENGRAVERS AND DIE SINKERS
 FOR PUBLISHERS
 BOOKBINDERS GOLD BLOCKERS BOX MAKERS STATIONERS ETC.
 METALLIC PAPERS FOR SHOWCARDS ETC.
 ELECTRIC WORKS
 10 & 11 MIDDLE ST. LONG LANE ALDERSGATE ST. LONDON

YOU CAN BUY A WILLIAMS No. 2 FOR 5d. A DAY.

Write for Particulars or call and try the Machine.

Head Office: 57, HOLBORN VIADUCT, LONDON.

THE AQUATYPE PATENTED

TO PUBLISHERS AND PRINTERS.

The publication of pictures of natural views and objects, printed in black only, is not new in accordance with the growing taste of the Public, who prefer prints that appear more closely to the original in colour. Up to the present time the application of colours to pictures printed in black has been a costly and troublesome process, and it has been reserved for M. Orsoni, the founder of the *Petit Eclair de Male*, the most extensively circulated fashion journal in the world, to invent a machine which applies water-colour tints mechanically.

THE AQUATYPE Patented is the machine in question, which is capable of applying, in an hour, practically any number of colours to from 500 to 1,000 sheets of paper or cards of any ordinary size, being thus suitable for newspaper, print, or post-card work.

Full particulars, together with prices of machines, may be had on application to:—
M. P. ORSONI, 7, rue Lemaignan, Paris.
 Catalogues and specimens of work forwarded per return post.

THE BEST PUBLICITY IN THE MIDLANDS!

If this is what you seek use the **Birmingham Evening Despatch**
 85,000 COPIES DAILY.
 Famous for Excellent Results to Advertisers
 Exceptional Display.
 Maximum Publicity. Minimum Cost.

Length of Column, 22-in.; Width, 2½-in

Communications to Adv. Manager.

THE WORLD'S
Paper Trade Review
 IS PUBLISHED EVERY FRIDAY AT
 58, Shoe Lane, London

For Bookbinders and Printers.

From time to time we have noticed in these columns the popular and up-to-date machines that are offered to the printing, bookbinding, and allied trades by the Hobbs M'fg. Co., late of 37, Featherstone-street, but now removed to 21/27, Hatfield-street, Goswell-road, E.C., and so need make no apology for bringing a few more of the firm's specialties before our readers, and in the latest model of the "Crawley Rounder and Backer" that is offered to bookbinders we have a machine that possesses many advantages, among which are uniformity of product, economy of space, a large saving of time and labour, and the ability to do perfect flat-back work or flexible cover work, rounded but not backed. Each book is rounded and backed by one continuous action of the machine, and without labour on the part of the operator, save putting in and taking out the books. The machine, while made heavy and strong enough for any books within its designated range, is very compact, requiring a floor space of 4½ feet by 4½ feet and room for the operator. As all books are returned to the operator to be removed, "dumping" and injury incident thereto is avoided, and each book may be inspected as finished. At the backs the signatures are turned both ways evenly from the centre, without mashing or straining the sewing;—the result is a book without "starts" that will keep its shape; and absolute uniformity. The power required to drive is about one horse. These machines are in use in all the largest American binderies, and nearly all edition binderies of the United States, Canada, England, Scotland, and some scattered over other parts of the world, so their merits have been established by a long, practical test. Messrs. J. Burn and Co., of London, use six, and Messrs. P. F. Collier and Son, of New York City, use five. Three sizes are made, covering nearly all the requirements of the book-binder.

Another Crawley specialty is the "Bundling or Signature Press" which has a large range of work, and takes sheets from 3 by 4 inches up to 9 by 12 inches, or larger, if boards are used against the heads on each side of the bundle. The length of the trough for the sheets is 36 inches. By the use of the "slotted heads" any size of signatures may be tied in the middle while in the press. The apparatus is very strongly built, is easy to work, the pressure being applied by the pull of a lever. The following are a few of the uses to which the "Crawley Bundler" may be put: compressing and tying up printed, folded sheets so as to store in minimum space and protect from dirt. Squeezing swell out of printed folded sheets to prevent head or back bulging. (Result quicker and better sewing or stitching and better books, catalogues or the like.) Presses out "press marks." When the press is placed next a folder or folding tables all sheets are forwarded tied and so protected against frayed edges, dust and dirt. Holding under pressure for gluing up or padding. Pressed sheets are easier to handle at the trimming machine. These presses are favourites wherever used, and they are in use in all parts of the world.

"McAdam's" Double-Disc Faint Line Ruling Machine is another of the Hobbs M'fg. Co.'s lines in labour-saving machinery. It is a thoroughly modern machine taking up very little floor space, and in its construction is free from any mechanical complications, being so simple that it can be operated by any person of ordinary ability. The paper is simply passed through the machine, and it is capable of dropping 125 sheets of 28-inch paper in the box per minute. In changing from one job to another but little time is lost, as one set of rolls has but to be lifted out and a fresh set put in. The adjustable disc rolls that are used in this ruling machine are readily set to any pattern without removing the discs from the rolls. No space rings are used, and the rolls are not liable to get out of truth. The tablet counting device is a feature of the machine that should prove very serviceable,

it counts the paper off into tablets as it passes into the layboy, and marks the count, so that it can be readily separated before or after jogging, and it may be regulated so as to count any number of sheets. If desired, an automatic feeder can be supplied. The "McAdams" ruler is a great favourite in the principal blank book factories in the United States, where it has a very high reputation, while in Great Britain it is establishing itself as a first favourite, and many repeat orders have been taken. Several medals have been awarded at exhibitions, including the World's Columbian Exposition, 1893, and the St. Louis Fair, 1904, at which latter the award was a gold medal. Four sizes are made taking respectively, 30, 34, 38, and 44 inches.

In the "Progress" Wire Stitcher we have an appliance that is especially adapted for printers, bookbinders, blank-book manufacturers, lithographers, or others who have wire stitching to do. The machine combines all the latest and most up-to-date improvements and is capable of taking almost all classes of work. It has a continuous roll feed, with automatic guide, which does away with all kinking of the wire, and instead of being shot across an open space the wire is carried positively to the proper place. There is also an automatic gauge indicator and scale, which adjusts for thickness, gives the size of pad, and enables the operator to tell at a glance the amount of wire required. The tension spring releases just enough wire for one staple and prevents all unwinding of spool or wire bending. The cutting blade operates independently of any other part of the machine, is adjustable, and is so balanced that its movement is always accurate. The keynote of the machine is simplicity, it has but few working parts, and the best of material and labour has been embodied in its construction. Five sizes of this stitcher are built, taking from a quarter of an inch in thickness in a No. 1 machine, up to seven-eighths in a No. 5 machine.

In the matter of round cornering machines, the Hobbs Manufacturing Co. offer to the trade the "Multiplex" Power Punching and Round Cornering Machine, which is suited for any kind of punching or cornering. It is fitted with one-piece punch heads, thus preventing breakage. The punches and dies are interchangeable and adjustable, from an inch and a

quarter to twelve inches, and the open hole or special punches and dies are adjustable from two inches to twelve inches. The corner cutting attachments have adjustable gauges and an automatic clamping device which holds the work in position while being cut. The "Multiplex" is supplied in two forms, one for working by foot, the other for power, and in four sizes.

There are many other interesting machines on view in the company's show-rooms, and those interested should either call, or, stating their requirements, send for illustrated circulars.

Dry Plates for Process Engraving.

Notwithstanding the facilities offered by the use of the commercial dry plate, the photo-engraver is very slow to appreciate its economy and usefulness in the production of negatives for line and half-tone work, and this, in spite of the many good plates that have of late been put on the market. Here and there we find an enterprising firm that has thrown aside the traditions of the trade and adopted the dry plate, instead of clinging to the wet plate process with its messiness, and the difficulties that attend the keeping of the silver bath in proper order. True the objections to the dry plate are often given that it lacks the density giving power so necessary in a line negative, but this is so very much a matter of exposure and development that it may be put aside by the practical dry plate worker; and, besides, it is quite possible to obtain a dry plate that will give any required amount of density, while at the same time the lines remain clear glass, and this is to be found in the Ortho Process Plate for photo-mechanical work that has been put on the market by Messrs. Wellington and Ward, of Elstree, Herts. During the past few days we have tested a number of these plates on line and half-tone work, and have found them all that could be desired. There is no difficulty in securing the necessary density with the absolutely clear lines that are so admired by process workers in line work, while for half-tones there is an excellent gradation that is entirely under the control of the operator who can secure by a

modification of the developer any quality of negative desired. A special feature of these plates is their better rendering of colour values, and when used with the light filter that is specially prepared by the firm, excellent results may be obtained from coloured subjects. In testing the plates we made exposures on a line subject in several colours, and upon a coloured picture, and the relative values of the colours were well brought out in the negatives. The developer used in the tests was pyro-soda—hydroquinone may be substituted, if desired—and we found no difficulty in obtaining perfect results. These Ortho Process Plates are well worth a trial by process engravers, and we have no doubt that their merits will be appreciated by up-to-date workers. Price lists and full particulars may be had on application to Messrs. Wellington and Ward at the address given.

ESTABLISHED 1870.

Cooper & Budd,

THE PECKHAM Ltd.

Specialists in
Half-Tone and
Three-Colour Work.

TRADE - - PRINTERS.

PRINTERS' PRICE LIST.
Royal 32mo, 32 pages, Paper Covers, 1/- post free.
Cloth Boards, interleaved, 2/- post free.

McDERMOTT ROAD, PECKHAM, S.E.

TELEPHONE: BYDENHAM 124.
TELEGRAMS: COOPER BUDD, PECKHAM.

PROMOTION

The new magazine for go-ahead business men. Shows by example the value of fine printing in advertising. New and better ways of doing things are shown—attractively. PROMOTION is beautifully printed. Full of helpful ideas, brightly set forth; it brings success near you. 5/- per annum. Specimen copies free.

PROMOTION, 6-8, Plymouth Street, Cardiff.

GOOD METAL produces GOOD WORK.



These Slugs were cast from Jubb's Metal which had been in daily use for six months.



These Slugs were cast from unsuitable Metal which was not Jubb's.

Write for Quotations and Samples of
**Stereotype,
Linotype,
Monotype,
Electrotype
Metals**

No Bad Casts

WHERE

**JUBB'S
METAL
IS USED.**

Telegrams: "METALS," Leeds.
Telephone: 15x, Leeds.

ADVERTISING CRICKET FIXTURE SHEETS

(Double Crown and Royal Sizes).

ROYAL FOLIO CRICKET CARDS AND DOUBLE
DEMY CRICKET POSTERS.

A large variety of designs now ready. Illustrated list free on application.

TAYLOR BROS., THE TRADE PRINTERS, LEEDS

Estimates free for work of all kinds. Enquiries solicited.

London Representative:—

GLEN STEEL, 64, Chancery Lane, W.C.

Telephone: 5275 Central, London.

T.G. & J. JUBB, Jack Lane, Hunslet, Leeds.

P. LAWRENCE Printing Machinery Co., Ltd.,
57, SHOE LANE, LONDON, E.C.

Sole Agents for

John Thomson Press Co.'s "COLT'S ARMORY" PLATEN PRESSES
For Printing, Blocking, Embossing, and Cardboard Box Cutting and Creasing.

F. Wesel Manufacturing Co.'s MACHINES for Photo-Engravers, Electrotypers, Stereotypers, and Engravers.

Huber "Celebrated" PRINTING PRESSES.

Job and Book, Sheet Perfecting, Two-Colour, and Aluminium Rotary Litho Presses.

Lawrence's GLUEING MACHINES.

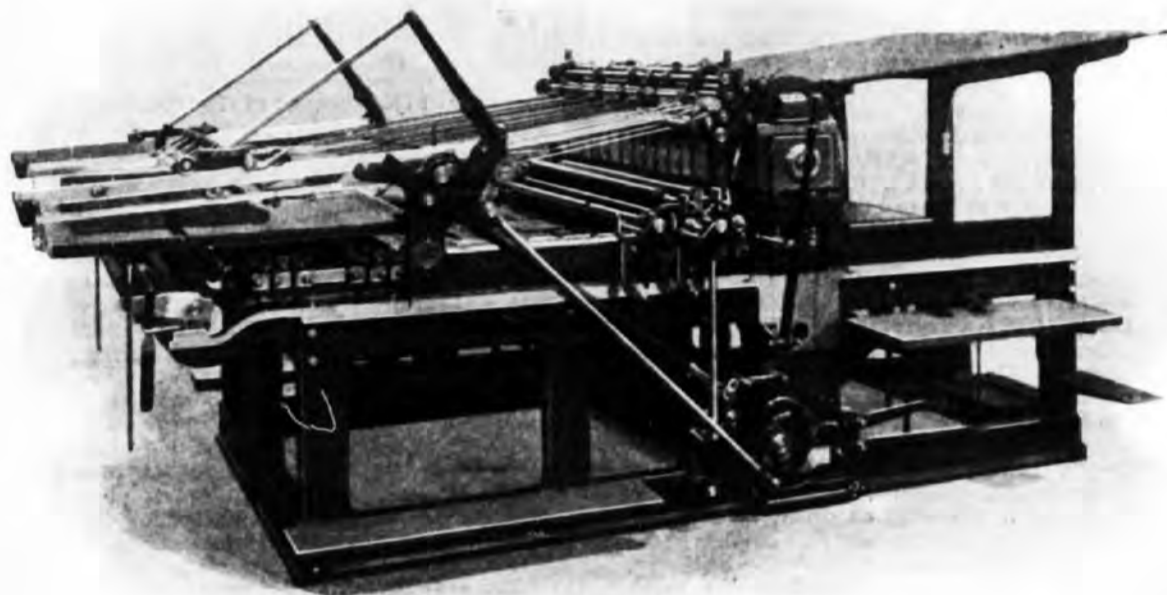
Cutting, Creasing and Scoring Rules for Paper Box Makers.

Lubricating Oils, Greases for Steam and Gas Engines, Motors, Dynamos, &c.

The Dictum of Modern Efficiency is :

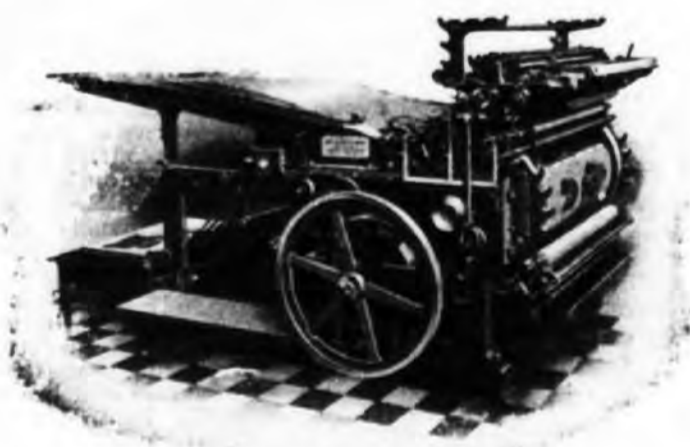
"Have no Machine Unit on Your Floor which has not effective production value."

The Machines manufactured by Linotype and Machinery Ltd. at their works, Broadbeath, Manchester, establish designs which other makers endeavour to imitate. Each type of Machine made by us marks a distinct departure and advance—simplifying the printers' work, and reducing his cost of production.



THE MIEHLE TWO-REVOLUTION PRESS

THE MIEHLE is in itself the personification of the utmost desiderata of the press-room. The perfection and exactitude of its construction is unexampled in the history of the Trade. The leading firms of printers throughout the world are adopting THE MIEHLE to the exclusion of all other presses. BEWARE OF INFERIOR IMITATIONS. THE MIEHLE cannot be built CHEAPLY: for, unless it is built with the precision of a watch and of material of the highest quality, the printer is better off with a Wharfedale!



THE L. & M. ROTARY LITHO MACHINE

is the best built Machine on the market, and has been specially designed by the practical inventor of this type of Machine to embody the improvements suggested by experience in working on the earlier designs. Thus while the weaknesses of other Machines have been eliminated, many valuable improvements have been embodied in the L. & M. ROTARY, which is built in four sizes.



THE CENTURETTE

is a small sized Two-Revolution Machine, built to run at 3,000 per hour. "Make-Ready" is simplified to a minimum. THE CENTURETTE combines high-speed with high-grade output. Write us for full explanatory pamphlet.

We particularly invite printers abroad to correspond with us on any matter of interest to them relating to New Machinery, and shall be happy to afford them opportunities to exchange experiences with users in the home market.

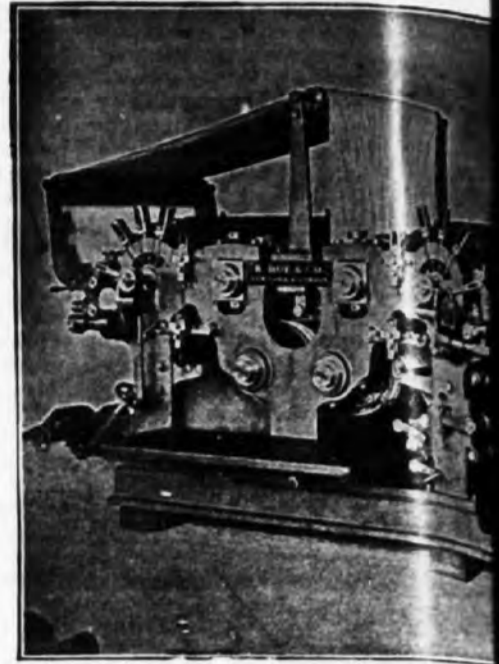
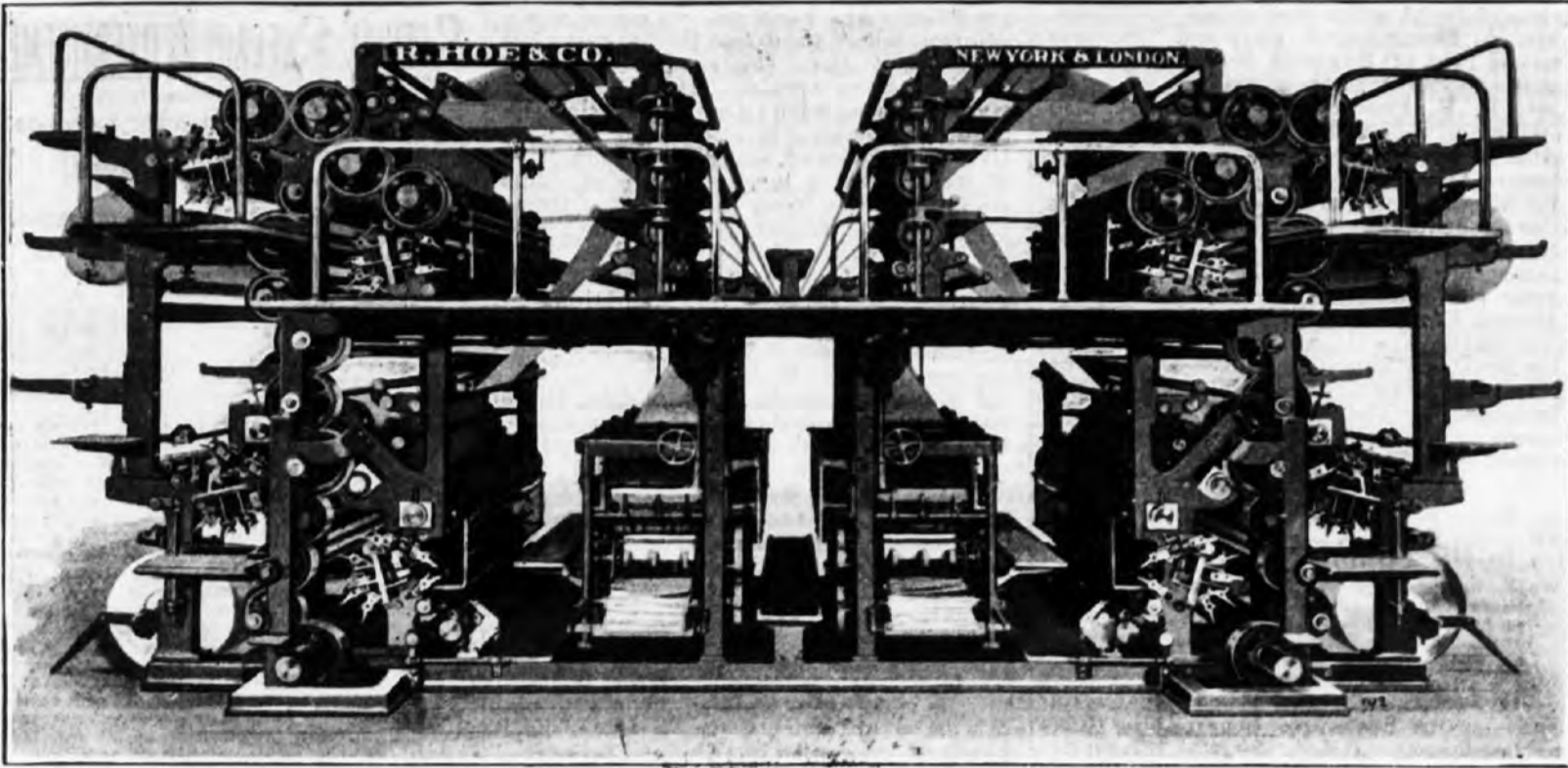
Our "PRINTING MACHINERY RECORD," which we mail post free monthly, will be sent you regularly on receipt of your request.

Linotype & Machinery Ltd.,

188 & 189, FLEET STREET, E.C.

R. HOE & CO.'S

Patented 1, 2, 3, and 4-Roll, Double
Presses, High-Speed Two-Roll
Colour Rotary Aluminium
also Electrotyping and Ste...



R. HOE & Co.'s

Prints and Folds 4 or 6-page
papers at
All delivered Folded to Half-
any nu...

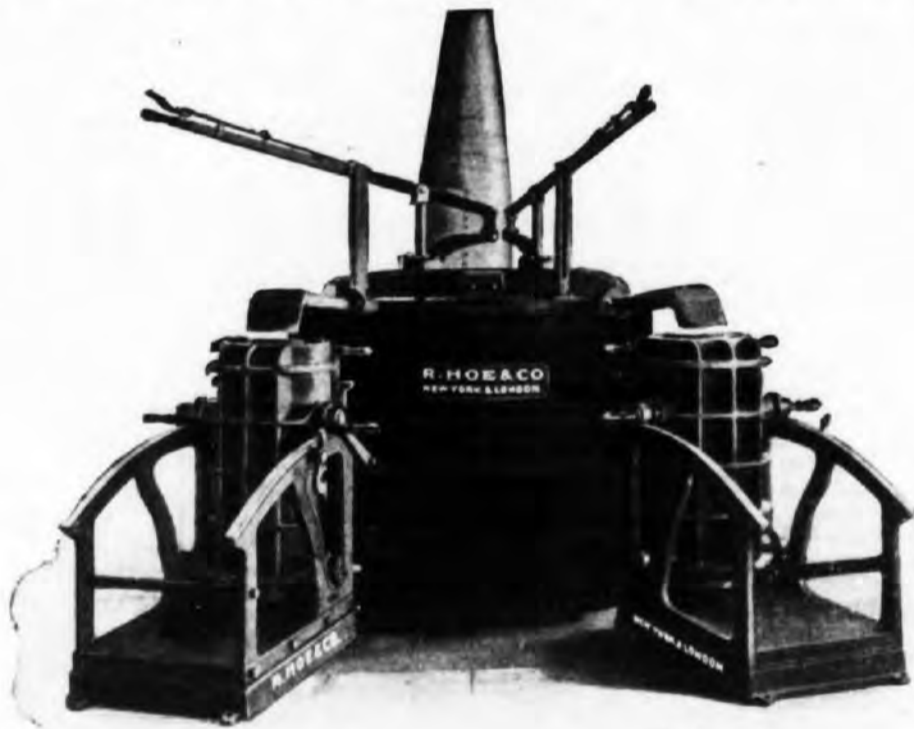
Over 1,100 Newspaper Presses ha
working give th

R. HOE & Co.'s Patented Double Quadruple or Octuple Newspaper Perfecting Press (WITH CENTRAL FOLDERS)

RUNNING SPEEDS PER HOUR, WITH FOUR DELIVERIES :

96,000	4, 6 or 8-page papers	48,000	14 or 16-page papers
72,000	10-page papers	36,000	20-page papers
60,000	12-page papers	24,000	18, 24, 28 or 32-page papers

Folded, Counted, and Pasted if desired.



R. HOE & Co.'s New Combined Stereotype Furnace and Curved Casting Mould.

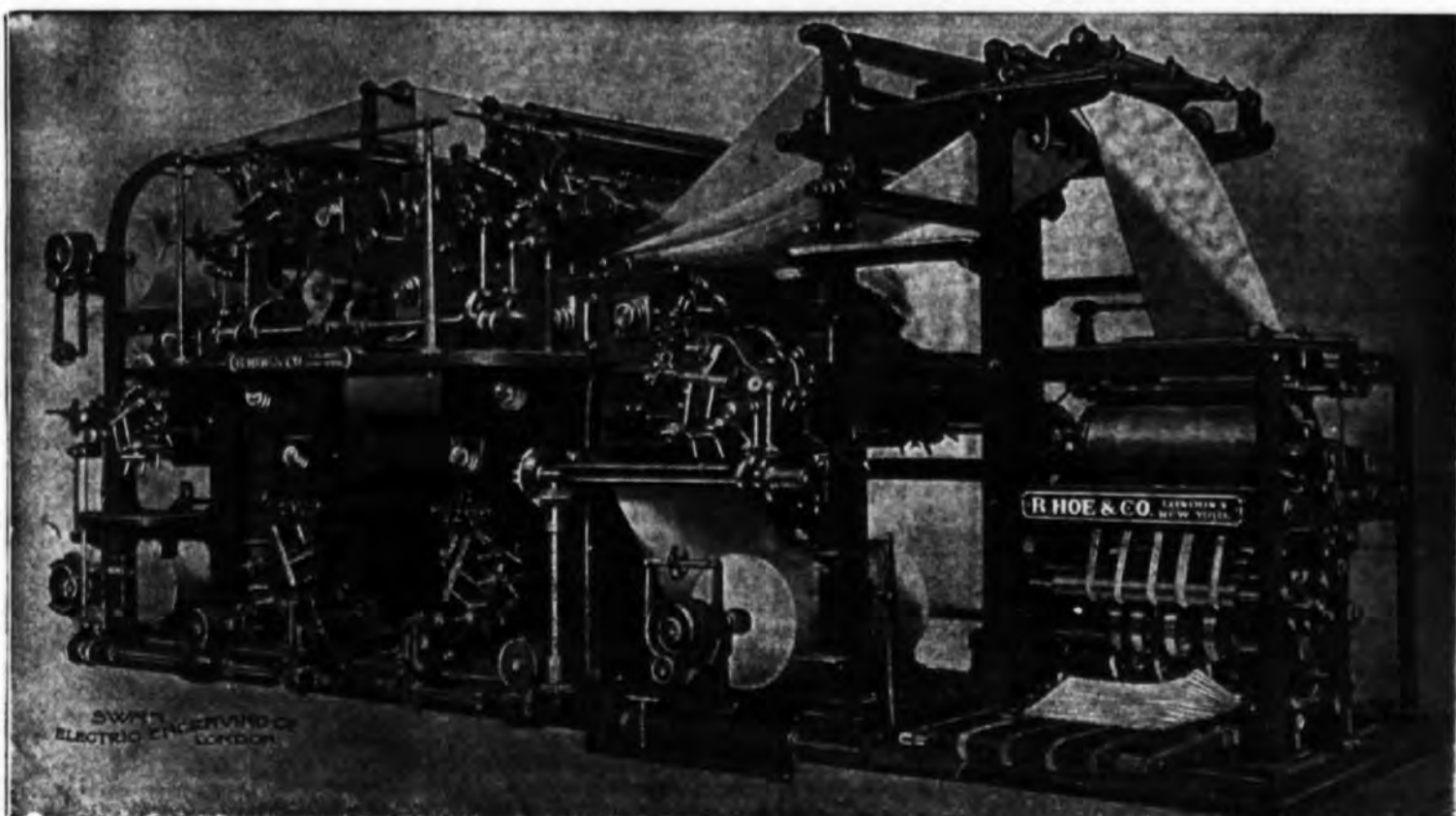
This apparatus affords the quickest, latest, and most convenient method for producing perfect stereotype plates.



R. HOE & Co.'s POW...

The Machine illustrat
following

- Messrs. Perkins, Bacon
 - Messrs. Bradbury, Wilk
 - Messrs. Thomas De La
 - Messrs. Waterlow Bros
 - Messrs. A. Alexander,
 - Government Printing O
 - International Bank No
 - Western Bank Note Co
 - British American Bank
 - Government Printing O
 - Government Printing O
 - Government Printing O
 - Government Printing O
 - Messrs. Enschede & Z
 - Messrs. Giesecke & De
 - Mr. H. H. Thiele, Gove
- Etc. Etc.



R. HOE & Co.'s Straight-Line and Ordinary Three-Roll Presses ARE THE MOST POPULAR MACHINES ON THE MARKET.

Either of these Machines will produce:— 4, 6, 8, 10, or 12-page papers at 24,000 per hour.
" " " 16, 20, or 24-page " 12,000 "
All Folded to Half-Page Size and Counted in Quires.

ble Supplement, Quadruple, Sextuple, Octuple, Double-Sextuple and Double-Octuple Rotary Revolution, Lithographic, Ordinary and Two-Colour Stop-Cylinder, also One and Two-Machines, and other Fast Rotary Web Presses for Magazines and Illustrated Periodicals, and other Typing Machinery of the most improved kind.



Single-Roll Machine

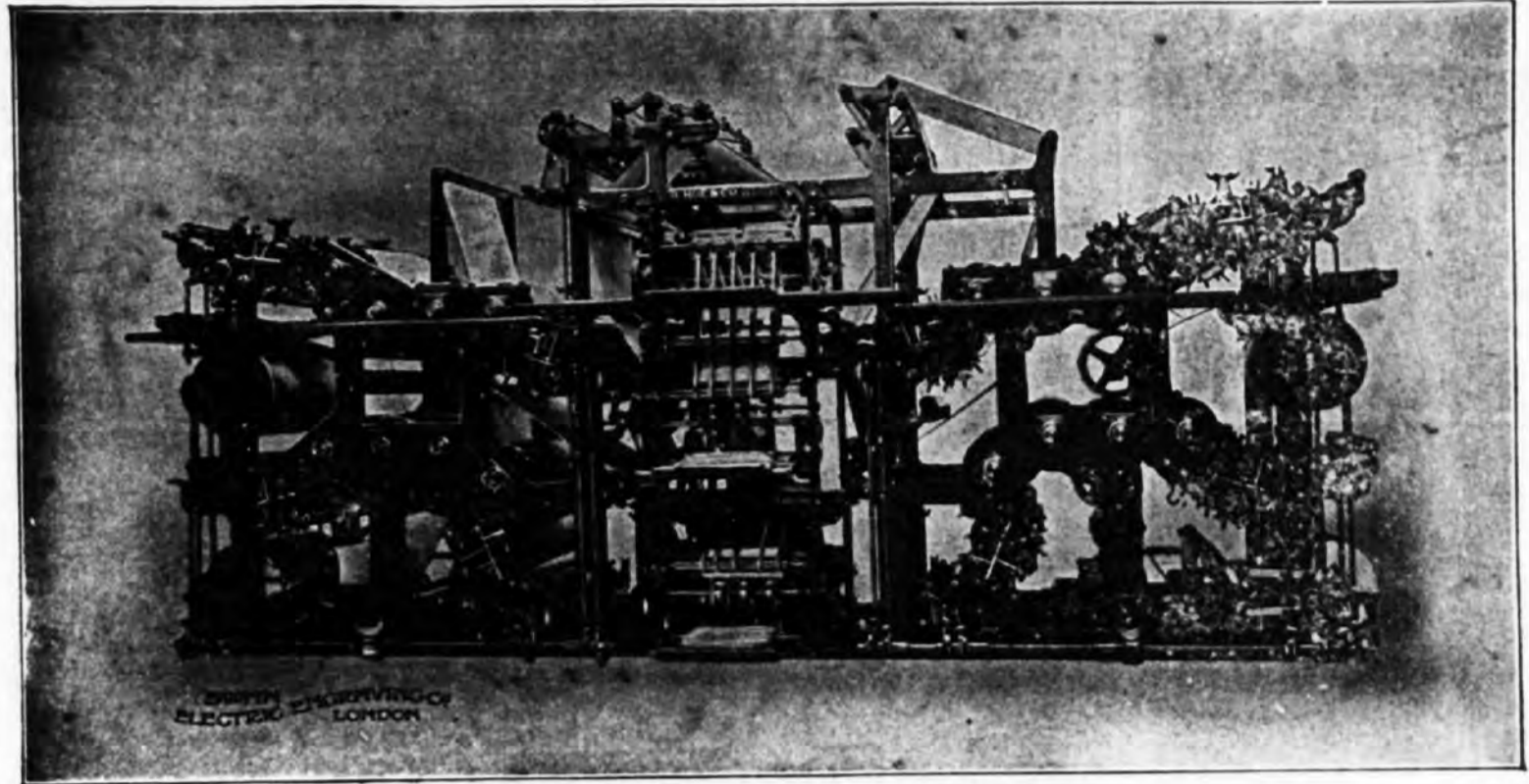
papers at 24,000, and 8 or 12-page 1000 per hour.
Size and Counted in Quires of required.
been supplied and wherever they are Fulllest Satisfaction.



Plate Printing Press.

above is working in the offices:—

- & Co., Ltd., LONDON;
- son & Co., Ltd., LONDON;
- ue & Co., Ltd., LONDON;
- & Layton, LONDON;
- LONDON;
- ice, WASHINGTON;
- Co., NEW YORK;
- CHICAGO;
- Note Co., OTTAWA;
- ice, SYDNEY;
- ice, WELLINGTON, N.Z.;
- ice, St. Petersburg, RUSSIA;
- ice, Tokio, JAPAN;
- en, Haarlem, HOLLAND;
- ient, LEIPZIG;
- ment Printer,
- Etc. COPENHAGEN.



R. HOE & Co.'s Four-Roll Press.

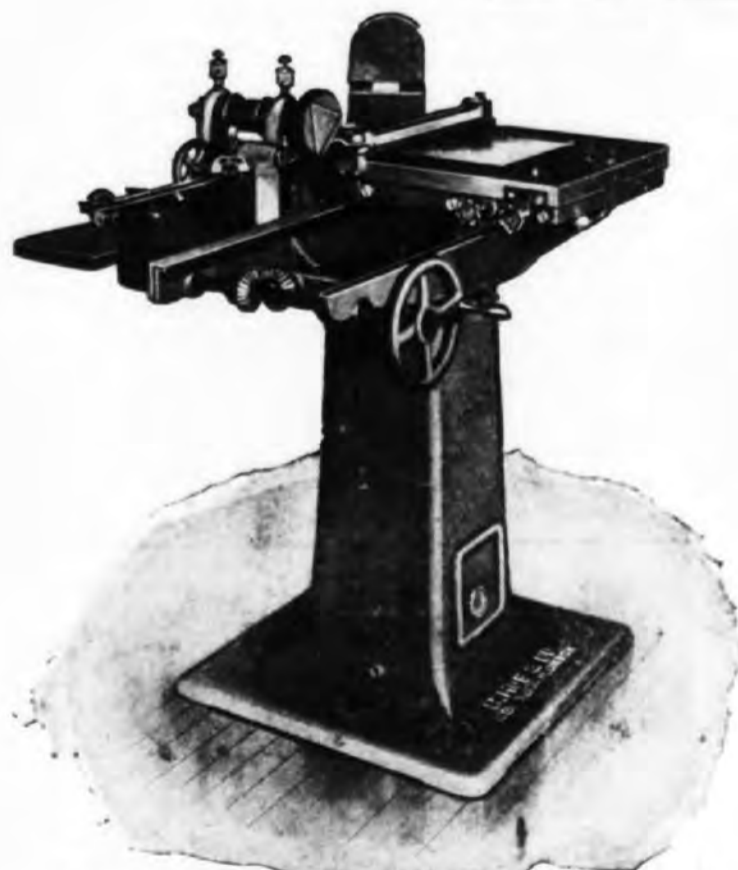
THIS FOUR-ROLL PRESS can be run as two printing machines independently, for 4, 6, or 8 page papers, each at a speed of 24,000 per hour, or as one complete machine.

}	Will produce	4, 6, or 8-page papers at 48,000 per hour.
	"	" 10, 12, 14, or 16-page " 24,000 "
	"	" 20, 24, 28, or 32-page " 12,000 "

All Folded to Half-Page Size and Counted in Quires.



Combined Bevelling & Squaring Machine.



Improved Half-Tone Bevelling and Lining Machine.



Book Plate and Job Shaving Machine.

All Particulars and Prices will be gladly given on applying to—

R. HOE & CO.,

OFFICES:—Borough Road, LONDON, S.E.
WORKS:—Mansfield, Dantzig, and Earl Streets, SOUTHWARK;
Also at—
GRAND, SHERIFF, BROOME,
AND COLUMBIA STREETS, NEW YORK.
DEVONSHIRE STREET, BOSTON, AND DEARBORN STREET, CHICAGO.

Deed, Cash, and Despatch Boxes.

A firm that makes a specialty can generally be relied on to supply a good article; they have had opportunity of concentrating thought and effort in one particular direction, and their reputation rests on the results they have been able to achieve. Deed, cash, and despatch boxes are indispensable articles in most businesses, and a firm who have specialised with con-



gards prices we notice that the firm can supply a good quality deed box, taking one size for illustration, viz., 18 by 13 by 11 inches, for 9s. 9d. As regards the iron



stands, No. 79 is a good-looking strong wrought iron stand for the fall front deed boxes, in japanned black, and stocked in



six different sizes, or any size will be made to order. Among the cash boxes, No. 84 is a capital extra strong box, japanned black

and polished and filleted, with registered tray, and is done in seven sizes, with two or four-lever locks, or Hobb's lock and two keys. It is fitted with a patent till which can be opened without removing the tray from the box. Any size is supplied very highly finished.

In a nice selection of stationery and despatch boxes and leather cases, we may call attention to the "Colonial" (No. 91) as a specially attractive line. It has a stationery rack in lid, a tray with lock-up cash compartment, and four-lever lock and two keys. It is made in two sizes, one 14 by 10 by 6 1/2 inches and the other 16 by 10 1/2 by 7 inches.

Other lines include trunks and uniform cases, invoice or paper cases, ink fillers, letter cages, stamp boxes, petty cash boxes, date cases, letter boxes, etc., all maintaining good workmanship and high-class finish.

It may be added that the quality of all this firm's productions is first class, and well known in this country and the colonies. Our readers should send for the latest illustrated wholesale list and carefully note therein the prices and finish.

Stock Electros for Printers.

The usefulness of a stock electro when a job is wanted in a hurry is well known to the printer, and consequently a specimen book of these useful accessories to the job office that is issued by Messrs. C. H. Read and Co., 28, Paternoster-square, E.C., should be of interest, in so much as it indicates where an excellent and varied selection may be found. The



collection includes almost everything that could be wanted for special trades

or professions, including ships, steamers, inns, boots and shoes, cameras, cattle, sheep, tents, articles of clothing, furniture, clocks and watches, fashion designs, emblems of various trades, and numerous other designs, suitable for note or invoice headings, circulars, etc. The engraving of the various blocks is all that could be desired; they print well, and with little make-ready, and are thoroughly up-to-date in their style, which is quite different to that of some of the old-fashioned cuts that are still offered to printers. Any design not in the specimen book will be cut to order at a moderate price.



An unfortunate accident occurred last week at the premises in Fleet-street occupied by Messrs. Carl Hentschel, Ltd., the well-known process engravers, whereby three men were seriously injured, and several people had narrow escapes. The three injured men were engaged in installing office furniture, when it was found that a large wooden filing cabinet could not be got up the stairs, and accordingly tackle was fixed at the third floor window with which to raise it from the street. In its ascent the case became fixed, and the men were leaning out of the window trying to ease it when the whole of the balcony and adjoining masonry gave way, as well as the ropes holding the case and staging, and the three men fell to the pavement. Fortunately a fourth man on the ground saw what was happening, and warned a number of passers-by, who were able to get out of the way of the falling masonry. The injured men were taken to St. Bartholomew's Hospital.

On Saturday evening a house dinner of the Newcastle Liberal Club was held in the Club dining-room, Pilgrim-street, the guest of the evening being Mr. Spencer Leigh Hughes, a well-known London journalist. Mr. T. H. Catcheside, chairman of the committee presided, and Councillor W. Murray was in the vice-chair. The Chairman was supported by Mr. Hughes, the Mayor of Newcastle (Ald. J. Baxter Ellis), Messrs. J. C. Swan, J. M. Robertson, M.P., Wm. Angus, G. G. Armstrong, Tweddle, and J. A. Williamson. There were present also, Dr. Nevin, Messrs. A. W. Wilkie, J. M. Wakenshaw, A. Howson, James Stuart, Thornborough, Robinson, W. Lunn, Councillors W. Bramble, R. H. Millican, C. T. Stableforth, T. W. Rowe, Messrs. Sidwell Shotton, Steinson, H. Cockrell, W. Sutton, Dr. J. O. Scott, Messrs. A. J. Harris, Harry Benson, G. A. France, W. S. Corder, G. A. Morton, Arthur Withy, Hoy, and others.

siderable success in this line of production (Mr. Albert C. Shoppee, of Pancras-street, Tottenham-court-road, W.C.) has just sent us an up-to-date list of such like boxes, along with similar stationers' sundries, which should certainly be in the hands of every progressive dealer.

We notice a serviceable looking deed box (No. 71), made in best quality, japanned black in and out, with polished tops, and in sizes from twelve to thirty inches long. They are also supplied with fall fronts and fitted in iron stands in tiers of three, four, or five boxes. As re-

KAMPE & Co.,

2, Sandland Street,
RED LION STREET, HIGH HOLBORN,
LONDON, W.C.

Telegraphic Address: KAMPFWART, LONDON.

Telephone: 7470 CENTRAL.

SPECIALITY:
Labour Saving Machinery
FOR
PAPERMAKERS, PRINTERS,
LITHOGRAPHERS,
BOORBINDERS, STATIONERS,
AND BOX MAKERS.



CAMEO EMBOSSEING & INKING PRESS.



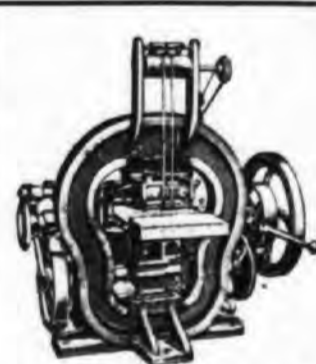
ROTARY CARD CUTTER.



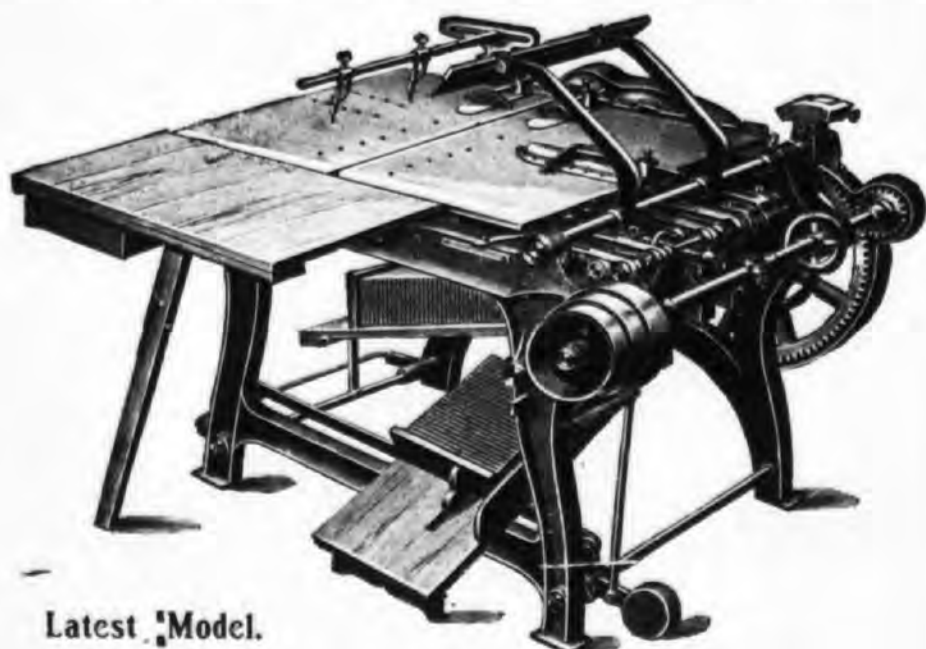
CORNER ROUNDING MACHINE.



TREADLE PERFORMING MACHINE.

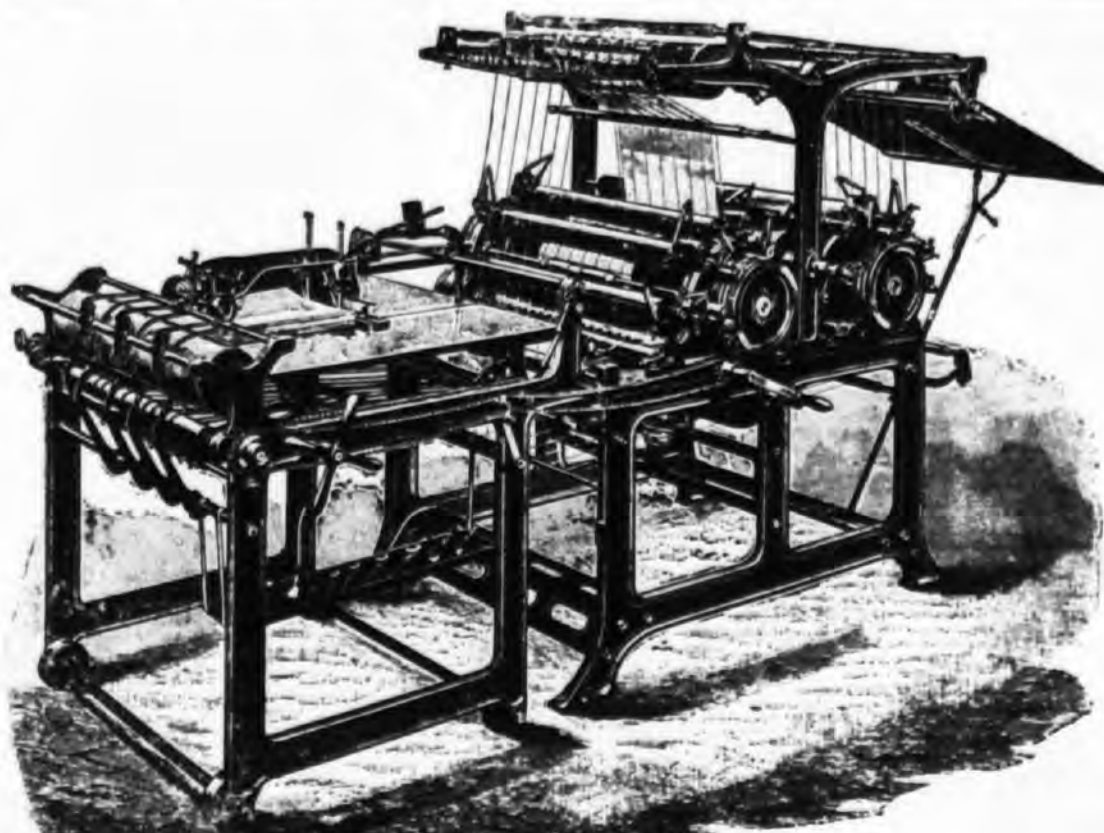


POWER BLOCKING PRESS WITH AUTOMATIC FEED OF GOLD-LEAF, ALUMINIUM, ETC. FROM THE REEL.



Latest Model.

FOLDING MACHINE, for 1, 2, 3 and 4-folds, suitable for every class of Work. Perfect Accuracy! Noiseless Working! ON VIEW IN OUR SHOWROOMS.



FORSTE and TROMM'S DISC RULING MACHINE. In use by all the Leading Firms in the Trade.

THE "LIGHTNING" PAPER CLIP.
*Fixed Instantly.
 Easily Detached.
 Used Repeatedly.*
6^{d.} Per Box
 of 100.
Liberal Trade Terms.

Wire Stitching Machines

FOR PRINTERS, BOOKBINDERS AND CARDBOARD BOX MAKERS. **HAND, TREADLE AND POWER.**
 Wire in coils or on spools, suitable for all makes of Machines. Platen Printing Machines, Eyeletting Machines, Punching Machines, Cutting and Scoring Machines, Grooving and Cutting Machines, Circular Saw Benches, Folding Box Machinery (complete plant). "McGILL'S" Staple Presses, Fasteners, "McGILL'S" Brass Staple Fasteners, Wire Staples, Suspending Rings, Paper Fasteners, Pin Tickets, Metal Edge Tickets for Drapers, etc., etc.
SEND FOR OUR No. 9 CATALOGUE, POST FREE.

LOTZ, ABBOTT & Co., Ltd., 66, QUEEN STREET, CANNON STREET, LONDON, E.C.

For **BOOKBINDERS, POCKET BOOK and JEWEL CASE MAKERS, FANCY LEATHER TRADE, etc., etc.**
 Supplied in Various Qualities and a Variety of Leather Grains and Colours.
REXINE
 IS WATER-PROOF, SCRATCH-PROOF, GERM-PROOF, HYGIENIC, AND ANTISEPTIC.
 The BEST and CHEAPEST SUBSTITUTE for LEATHER and MORE DURABLE.
 Regularly used by the British, Colonial, Indian, and Foreign Governments, and by all the leading Railway Companies in Great Britain, India, British Colonies, Japan, the Continent of Europe & South America.
British Leather Cloth Manufacturing Co., Ltd.,
 NEWTON, HYDE, NEAR MANCHESTER.

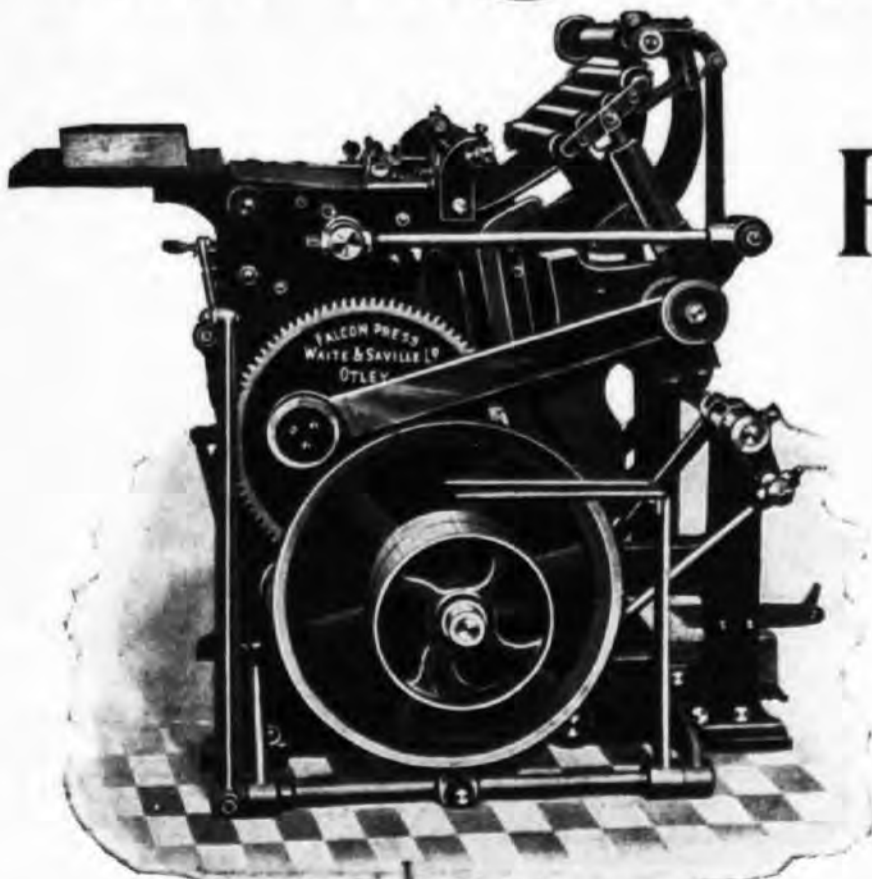
DATE BLOCKS
 Cheapest on the Market. Send for Prices.
WIDDOWSON & CO., Leicester.

THE THIRD EDITION OF
"PHOTO MECHANICAL PROCESSES."
 A Practical Guide to the Production of Letterpress Blocks in Line and in Tone; Photo-Lithography in Line and Tone; Cuiotype and Photogravure.
 By **W. T. WILKINSON.**
 London: Hampton & Co., 12 & 13, Curator St. E.C.

ESTABLISHED 60 YEARS. NATIONAL TELEPHONE: 4,672 HOLBORN.
T. Pepper & Son,
 = TYPEFOUNDERS, =
 Hold Stocks of Modern and Old Style Book and News Type, Quads, Spaces, Quotations, Leads, Clumps, to all Standard and Point Systems.
PROMPT DELIVERY. LOW PRICES.
SPECIAL TERMS TO TRADE AND EXPORTERS.
24, Great Sutton Street, LONDON, E.C.
 T. P. & Son having purchased the Matrices and Moulds of several Display Founts from the late London Typing Co., Ltd., invite enquiries.

Newspaper Half-tones
 For **QUICK and CLEAN Printing.**
 We are the Pioneers of Illustrated Newspapers, therefore know what is required. For specimens, see our Publications: "DAILY DISPATCH," "MANCHESTER EVENING CHRONICLE," "SUNDAY CHRONICLE," "IDEAS," "ATHLETIC NEWS," etc., etc.
 Blocks by Return of Post when required.
E. HULTON & CO., LTD., Manchester.

The Big Item is the Wage Bill!



Substitute a FALCON PRESS

for the ordinary Platen, and the same Operator,
IN THE SAME TIME, AND FOR THE SAME WAGES,
 Turns out Two to Three Times as much Work.

OVER 900 FALCONS

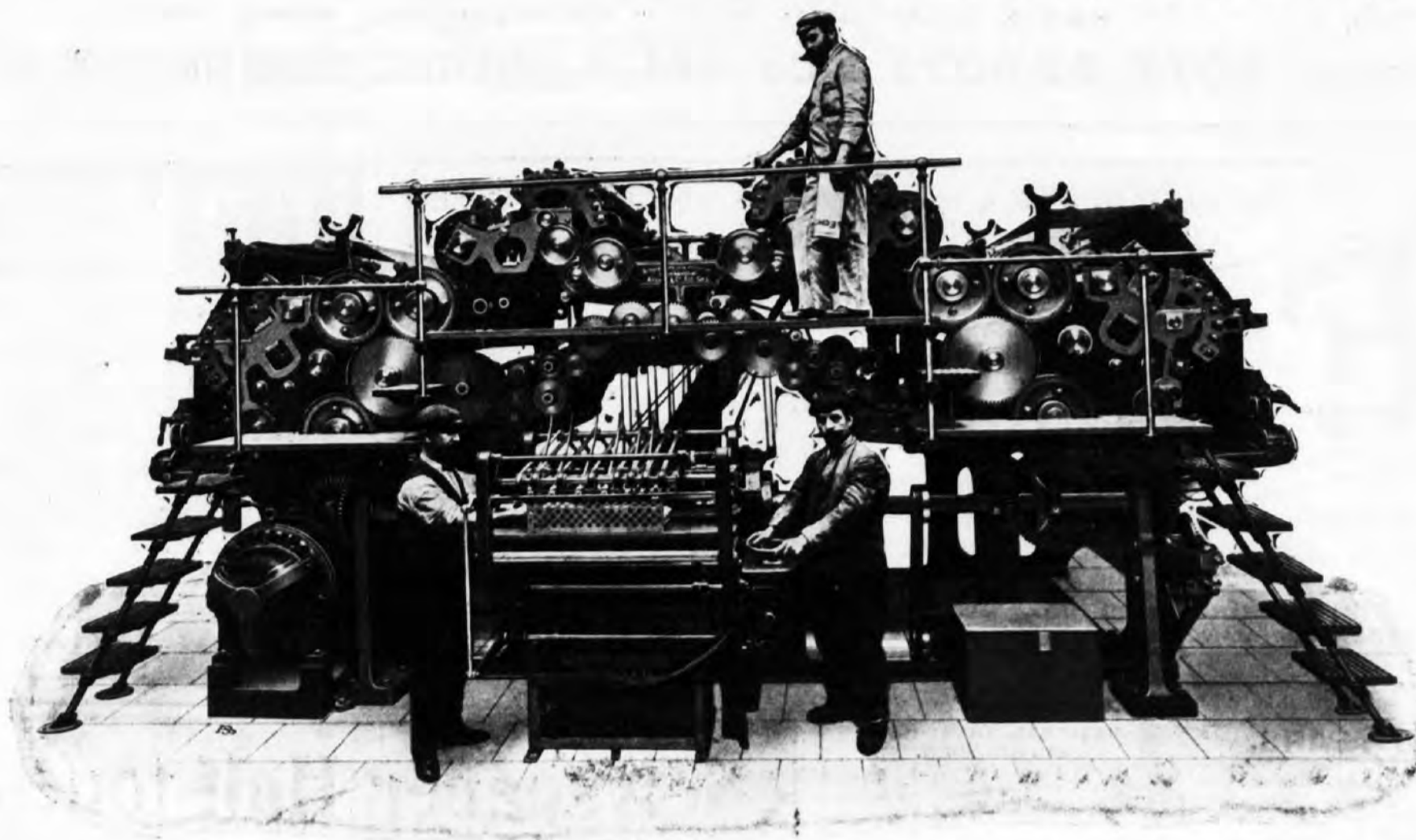
ARE AT WORK PROVING THIS FACT.

Waite & Saville, Ltd., Falcon Works, OTLEY, Yorks.

Sole Australasian Agents—MESSRS. ALEX. COWAN & SONS, Ltd., Melbourne, Sydney, and Adelaide; Wellington, New Zealand.
 Sole Agents for South Africa—MESSRS. JOHN DICKINSON & CO.'S AFRICAN BRANCH, Ltd., Johannesburg and Cape Town.
 Sole Agents for Germany and Austro-Hungary—FRIEDRICH HEIM & CO., Offenbach-am-Main, Germany.
 Sole Agents for Japan—MESSRS. W. M. STRACHAN & CO., Ltd., 46, St. Mary Axe, London, E.C.
 Sole Agents for Canada—THE TORONTO TYPE FOUNDRY, York Street, Toronto.
 Sole Agents for France—PAUL CAPDEVIELLE, 90, Quai de Jemmapes, Paris.

The "ALBERT" PRESSES are

A fact freely acknowledged by the LE

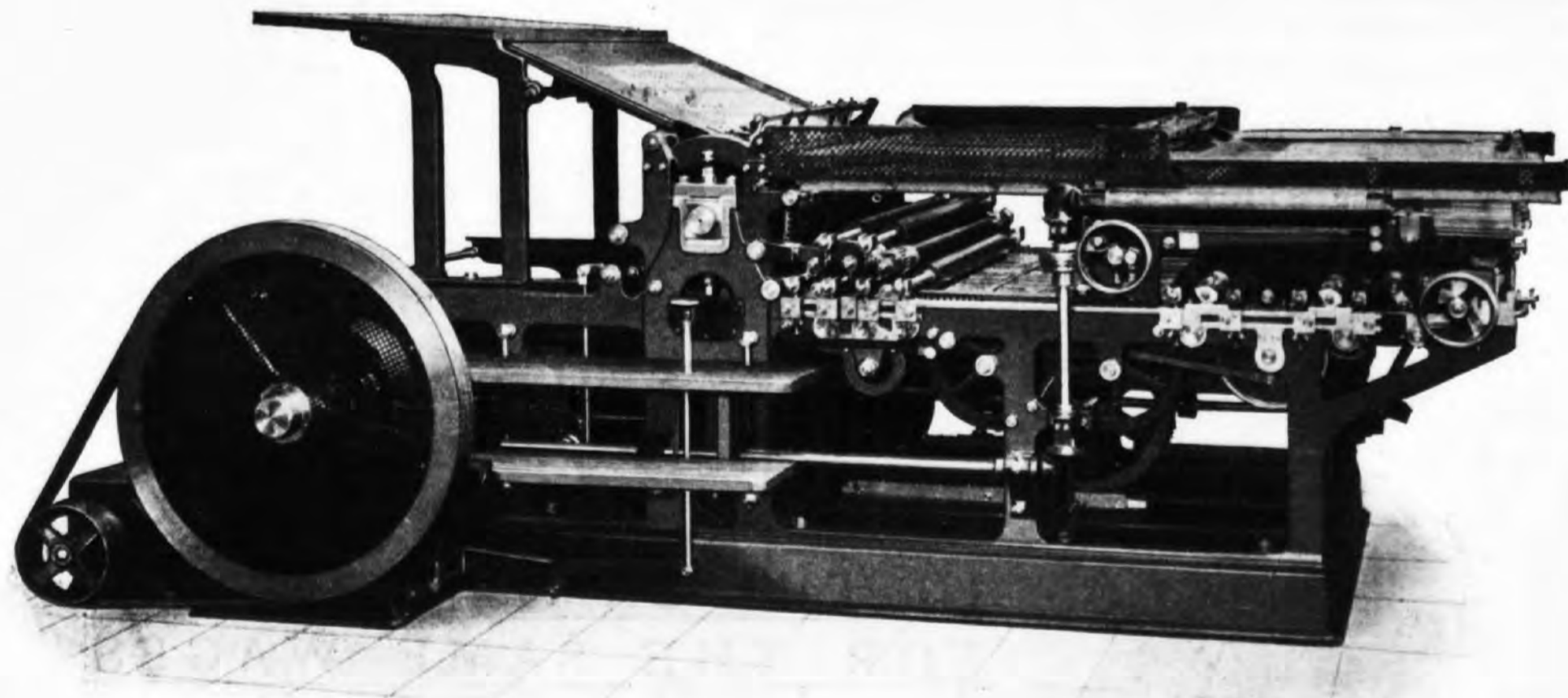


TWO REEL NEWSPAPER ROTARY

(BUILT FOR THE BRITISH MARKET).

With Automatic Ink Pump, Special Inking Arrangement, Automatic Damping Apparatus, etc. Driven by Direct Coupled Motor. Will Print, Fold, Paste and Deliver Complete: 16, 12, 10, 8, 6 or 4 page copies. No other Two Reel Pattern, e.g., no Two-Decker Press can produce 10 page copies at all, or 12 page copies in book-form consisting of three 4 page sheets all inset.

Our Works are the Largest for



Flat-Bed

FOR LETTERPRESS LITHOGRAPHIC, TINPLATE PR

THE "REGINA" Printing and Emboss

THE "BAVA" LITHO ROTARY

WE BU NOTHING Printing Ma

"PALATIA" CHROMOTYPE STOP-CYLINDER PRESS

DRIVEN DIRECT BY MOTOR. WITH FRONT DELIVERY. PRINTED SIDE UP. BUILT IN FOUR SIZES.

The printed Sheets are delivered in view of the Minder without touching Tapes or Rods.

This is the FINEST PRESS in existence for ART LETTERPRESS WORK, HALF-TONE and THREE COLOUR Printing.

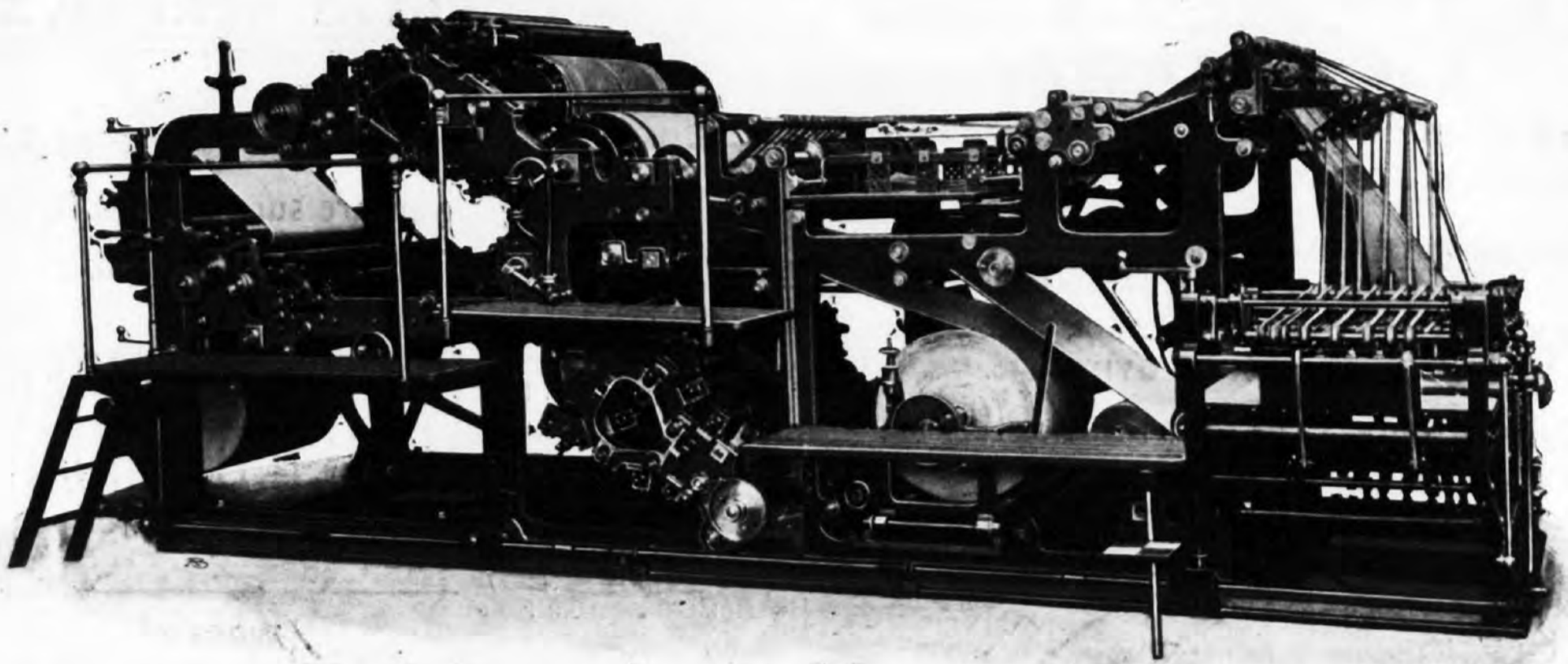
Further Particulars, Prices, etc., will be gladly furnished on application.

ALBERT & CO. Ltd.

FRANKENTHAL, BAVARIA.

FIRST-CLASS in every respect

PRINTING PRESSES all over the World.



"ALL-SIZE" WEB PERFECTING ROTARY PRESS

(BUILT FOR THE BRITISH MARKET).

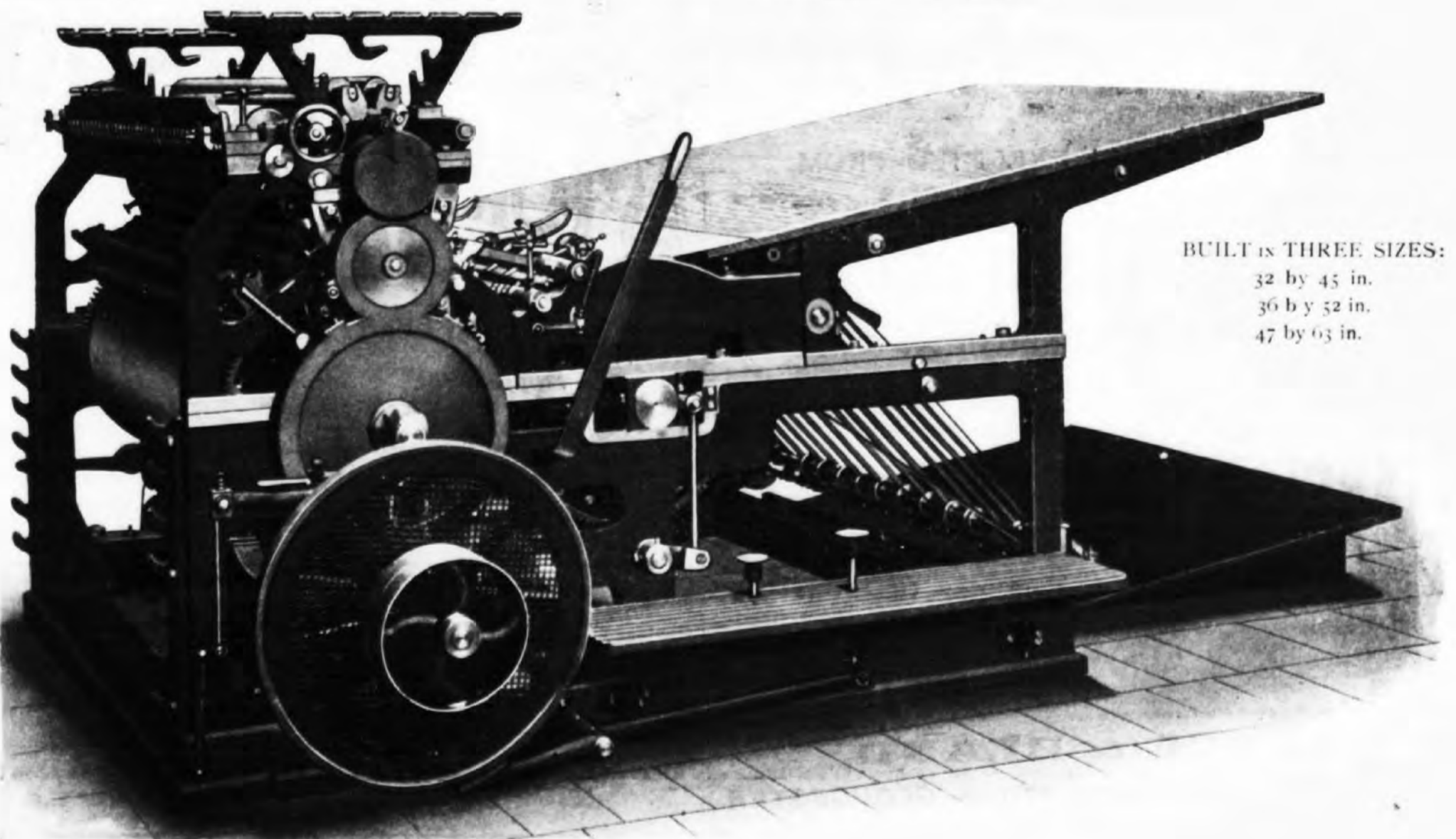
With Automatic Ink Pump, Special Inking Apparatus, Automatic Damper, Set-Off Arrangement, Flat Delivery and Folding Appliances. This Machine will print from the Web at a high speed and deliver the Printed Sheet either Flat or Folded as desired. For Fine Illustrated Work. A Set-Off Arrangement is provided.

These Presses are specially adapted for the **SPEEDY** and **ECONOMICAL** production of **WEEKLIES**, **ADVERTISING BROCHURES**, **PAMPHLETS**, and any other kind of Letterpress Work of **VARYING** sizes. **A REAL MONEY MAKER.**

Also built as "All-Size" **TWO-COLOUR** WEB PERFECTING PRESS.

A **FOUR-COLOUR** "All-Size" **ROTARY** is in course of construction at our Works.

Printing Machinery in Europe.



BUILT IN THREE SIZES:
32 by 45 in.
36 by 52 in.
47 by 63 in.

"BAVARIA" METALGRAPHIC ROTARY MACHINE

1906 PATTERN. WITH ALL THE LATEST IMPROVEMENTS.

For Printing at High Speed from Aluminium and Zinc Plates.

The "BAVARIA" is also built as a Two or more Colour Press, or for printing Litho and Letterpress Work simultaneously.

Sole British Agent: **A. BARTZACK**, PATERNOSTER HOUSE, 34, PATERNOSTER ROW, LONDON, E.C.

ROBERT BATESON & Co.,

MAKERS, AGENTS, CONTRACTORS,
AND VALUERS OF PAPER,

127, FENCHURCH STREET,

LONDON, E.C.

SUPPLY EVERY GRADE of PAPER FIRST HAND
at the MARKETS' LOWEST CURRENT PRICES.

EXPERT ADVICE GIVEN FREE OF COST ON ALL
MATTERS RELATING TO PAPER.

NOW EXPORTING TO AUSTRALASIA, INDIA, AFRICA,
CHINA and JAPAN, EGYPT, Etc.

ENQUIRIES OF ALL KINDS SOLICITED.

Telegrams "AUTOCHTHON" LONDON.
Telephone No. 720 CENTRAL.

ALLEN STRONG & CO. LTD.

17 BREAD ST. HILL.
UPPER THAMES ST.
LONDON, E.C.

Reg. Trade Mark

ENGLISH & FOREIGN PAPERS

Tissues (White and Coloured); Copyings, in Reams and Rolls; Manifold and Oiled Papers; Japanese Silk Copyings, Wrappings, Serviettes (Boxes and Packets), Wood Veneers; Banks (Glazed and Unglazed); Blottings (Finest and Cheap Qualities); English Cream Wove and Laid, Printings; Austrian Cream Woves (Fine Quality); Foreign White News, Coloured Printings (Glazed and Unglazed); Browns, Sealings and Caps; Glazed Transparent Parchments.

Thin Banks for Manifolding.
Duplicating Papers for Water and Oil Inks.
Typewriter Papers, all Kinds.

ORDERS PROMPTLY EXECUTED FROM
LONDON AND MILL STOCKS.

Direct Printing of Half-Tone Blocks
on Rotary Machines

IN CONJUNCTION WITH STEREOPLATE.

CHANCE & BLAND'S PROCESS

(PATENT No. 6932, 1905).

Specially Adapted for Newspaper Illustrations.

Most Economical, Most Expeditious, and Simplest Process
yet devised.

Send for Specimens and Particulars to:

CHANCE & BLAND,
Journal and Citizen Offices, GLOUCESTER.

Sheridan's line of
Machinery

includes:

SHERIDAN

CASE MAKERS,
PATENT BINDERS,
WRAPPING

MACHINES.

AUTOMATIC CLAMP

PAPER CUTTERS,

BLOCKING & INKING

PRESSES,

SPECIAL EMBOSING

PRESSES,

SIGNATURE PRESSES,

DIE PRESSES & BOOK-

BINDERS' MACHINERY

OF ALL KINDS.

DEXTER

FOLDING MACHINES

FOR ALL CLASSES OF

WORK & AUTOMATIC

FEEDERS.

WHITLOCK

TWO-REVOLUTION

PRINTING PRESSES.

MERCER

GATHERING MACHINE

SCOTT

LETTERPRESS, NEWS &

LITHO MACHINES.

TOILET PAPER

MACHINES.

ROTARY CARD

CUTTERS.

RULING MACHINES,

PAGING & NUMBERING

MACHINES,

ROTARY

PERFORATORS,

GOLD SAVERS,

ENVELOPE & BAG

MACHINERY,

WIRE STITCHERS,

WIRE.

Telephone:
634 HOLBORN.

Telegrams:
ABRUPTION, LONDON

10, Johnson's Court,

FLEET STREET, E.C.

Please make a note of this;
you are sure to need it. It
is the new address of:

T. W. & C. B. SHERIDAN CO.

WORKS:

CHAMPLAIN, N.Y.

56-58, DUANE STREET, NEW YORK,

149, FRANKLIN STREET, CHICAGO,

AND

10, JOHNSON'S COURT,

FLEET STREET,

LONDON, E.C.

Telegrams. *www*
"Zinnober London."
Telephone. *www*
"1785 Holborn."

MORRIS & BOLTON LTD.
Manufacturers of
PRINTING INKS
OF EVERY DESCRIPTION.

FACTORY:-
Eclipse Works,
Marsh Gate Lane,
STRATFORD, E.

OFFICES & WAREHOUSE:-
17, Took's Court,
Furnival Street,
LONDON, E.C.

3-Colour Process Blocks.

The Principal of the Art Dept. of one of London's most important publishing firms recently said:

"These are beautiful, I have never seen any to equal them."

This remark referred to Husnik and Hausler's artistic 3-colour reproductions. They are not simply "PASSABLE" nor merely "GOOD" but they are absolutely the FINEST IN THE WORLD.

A bad 3-colour job is an abomination. Don't risk it! To those who have only handled 3-colour blocks of average quality the magnificent reproductions of Husnik and Hausler will come as a complete revelation.

Sole British Agent:-

F. C. CLARKSON, Colchester.
London Office: 4, FENCHURCH AVENUE, E.C.

DEED, CASH, AND DESPATCH BOXES

For SALE amongst STATIONERS, TRUNK MAKERS, and IRONMONGERS.
Best Quality Goods only. Write for latest illustrated price list and terms. Wholesale only.

ALBERT C. SHOPPEE,
Pancras Street, Tottenham Court Road, LONDON, W.C.

POST CARDS.

THE ROTARY SERIES OF PHOTOGRAPHS

Post Cards Sell 2d. each ;
Hand Painted Sell 3d. each.
Matt Surface.



Hand- . . .
Painted. . .
Post Cards .

Sell 3d. each.



Matt Postcards

ALSO

Glossy Surface

Brown Toned.



1906 D ROTARY PHOTO. CO. MISS GABRIELLE RAY. PHOTOGRAPH BY HERRING

POST CARDS

Post Cards Sell 2d. each.
Hand Painted Sell 3d. each.
Glossy Surface.



Real . . .
Photos . . .

Printed on . . .
Rotograph . . .
Platino-Bromide
Paper

Colonial Buyers Please note.

LISTS UPON APPLICATION.

THE FINEST AND BEST COLLECTION
OF PHOTOGRAPHS IN THE MARKET.

New Series: SONGS, MOTTO, and COMIC POST CARDS.

Glossy Surface, Name Cards; Alphabetical Cards; Fancy Background (Actresses). 10,000 ASSORTED DESIGNS, ALL GOOD SELLERS.

Art Relief Cards; also Hand Tinted.
High Glossy Post Cards of
Actresses. 1,000 Subjects.
Special Jewel Cards. Hand Painted.

Distinguished Theatrical Couples.
(Two Midgets or Panels as one
Post Card). - 30 Subjects.

Celebrated Theatrical Sisters
(Two Midgets as one Post Card).
Celebrities in their Motor Cars.
Actresses in their Motor Cars.

Question Cards.
My Fancy.
Greetings for Birthday.

Wholesale and Export: **THE ROTARY PHOTOGRAPHIC COMPANY, LTD.,**
Works: West Drayton, Middlesex. **12, NEW UNION STREET, LONDON, E.C.**

How wd you prove,

The value of your plant

(Machines, types, power, etc)

If transfer, fire, or
any occasion

Called for this?

Verb. Typ. Sat.

Frank Colebrook, Printer's Valuer,
146 Fleet-st, London, S.E.

Calenders for 1907.

James Upton,
BIRMINGHAM.

This firm has prepared a collection of almanacs comprising upwards of 30 choice and saleable designs, including half a

est, though appealing to a sentiment of general prevalence, the picture entitled "The King!" forms an appropriate almanac for the brewing industry. Three old warriors are standing round an old-fashioned table in an inn parlour, chinking their tankards in drinking to the health of their king. The three distinctive types of faces are cleverly delineated, and the several minor details of the picture, such as the familiar caps of the Chelsea

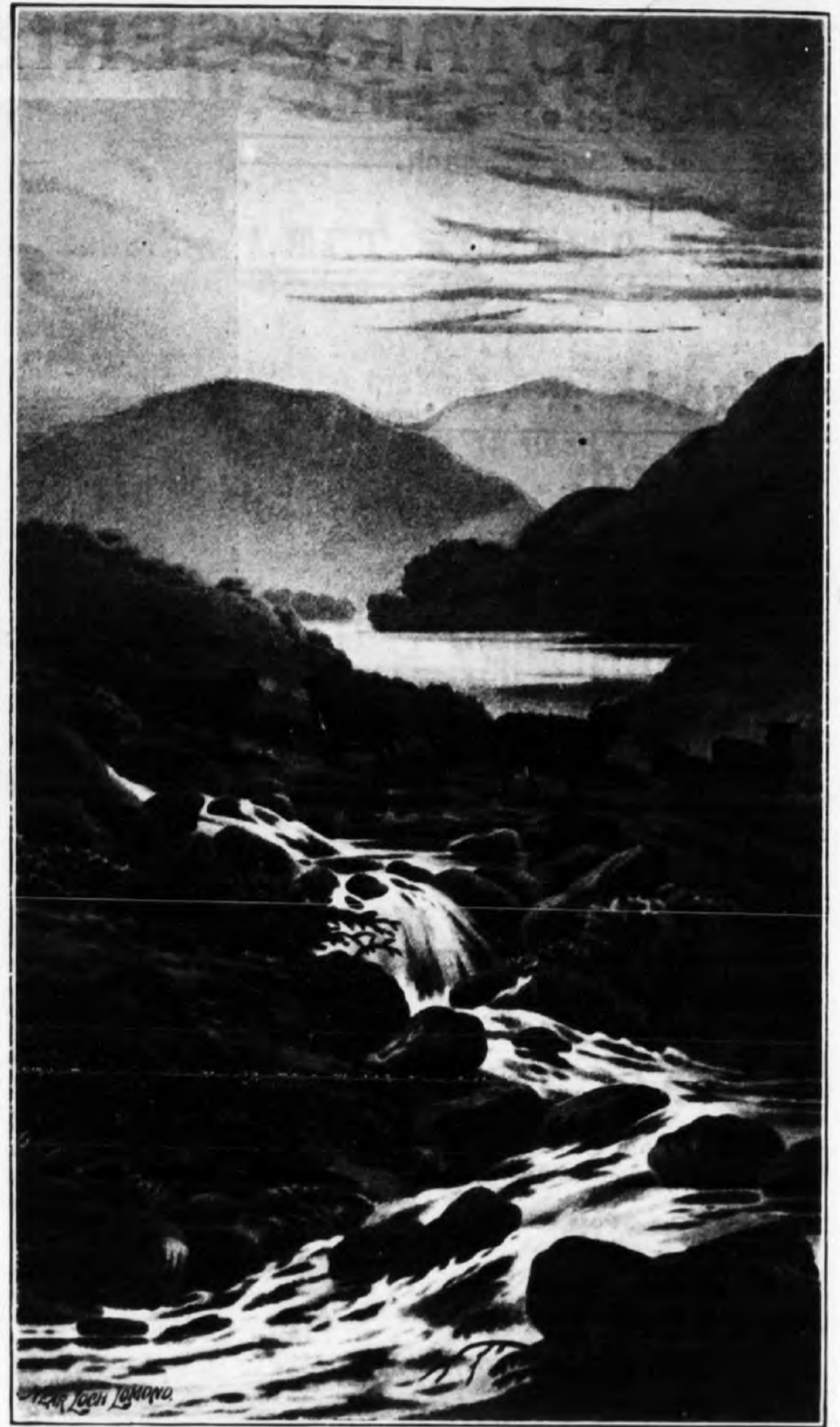


After the Ball.

James Upton, Birmingham.

dozen specially designed for such trades as bicycle, dairy, butchers, brewers, etc. In size they range from 29½ by 23 to 21 by 15½ inches. Beginning with the larg-

pensioners lying negligently on the old men's vacated seats, the tankards, clay pipes and box of matches on the table, the usual bareness and wooden furniture



Near Loch Lomond.

James Upton, Birmingham.

of a small tavern bar parlour, relieved with the brilliant colour of some crimson geraniums in a window sill on the one hand and the ruddy glow of a large fire in a capacious old grate on the other—all complete an interesting and picturesque scenes. "Happy Times" is the title of one of those old yet ever-new subjects, the simple pretty frolic of happy children in their most natural setting—the wild free open country. A little country lad in smock and gaiters is sitting astride a huge log spanning a brook.

He holds string reins secured to one end of the fallen tree, which he is whipping with a stick in his imaginative ride. His companions are a puppy dog in front of him, and behind are three other pretty little children of varying ages. The surrounding rustic scenery is idealistic. In this case the picture is printed in monochrome. Another interesting monochrome study is called "His Oldest Tenants," and depicts a little golden-haired boy of gentle birth standing on a seat, with his fond mother behind him and holding in his extended arms a large parcel, which an aged couple of poor country folks are about to receive with many signs of extreme gratefulness. A serving man is bringing a tray full of other parcels, which other poor people near by are to receive, and the scene is laid in the large and well furnished hall of a wealthy man's house. As a change to the former two, which are oblong shaped pictures, "After the Ball" is the title of a large upright study of figures in winter scenery. Two coquettish-looking maidens in light ball dresses of a bye-gone fashion have just descended the stone steps of a terrace in some beautiful grounds. One holds up an umbrella which is white with fresh fallen snow, and the snow-covered ground, the bare trees and the cold-looking grey winter atmosphere of the scene is very cleverly represented. A religious picture of a symbolical character is called "The Son of Man," and depicts Christ as the central figure, seated, of a group of types of weary suppliants—an old white-haired man, a young mother with sleeping babe, and a meanly-attired shepherd in the vigour of manhood. The colours are rich and the facial expressions skillfully worked out. In the pretty picture entitled "The Old, Old Story" we have an idealic portrayal of an old-world love story. A pretty maiden of tender years, in white gown, pink ribbons and large straw bonnet is seen crossing a rustic bridge over a silent stream fringed on either side with over-hanging weeping willows and irises. Coming along a riverside path under the luxuriant foliage is a youthful swain in the picturesque costume of the early Georgian period. It is an artlessly contrived meeting, with all the appearance of accident, while a look of coy timidity on the part of the dainty little girl in the foreground is well and naturally portrayed. One of the smaller almanacs bears a fine sun-set view of cattle amid rugged scenery, "Near Loch Lomond," in bright harmonious colours, and another smaller one, "The Mirror in the Woods," is a charming bit of rural scenery decoratively treated. A rustic-looking woman and child are crossing a wooden foot bridge over a narrow stream



"The King."

James Upton, Birmingham.



His Oldest Tenants.

James Upton, Birmingham.

in a wood, and the child is amused at seeing its reflection in the smooth water. The scenery of foliage and undergrowth is artistically treated and naturally coloured, and surrounding the top half of the picture is an effective design of hawthorn blossom on a toned ground. All the almanacs have wide margins, with an extra depth to the bottom margin where a business announcement may be printed with great effect. We have only drawn attention to a few representative designs, and would advise those interested to communicate with Mr. Upton at the Baskerville Printing Works, Cambridge-street, Birmingham, for particulars as to terms, etc.

ENGINEERING AND MACHINERY EXHIBITION.—Following on the wake of the most successful Electrical Exhibition which was held last autumn, it has been arranged to hold an Engineering and Machinery Exhibition in September and October next at Olympia. Sir Wm. H. White, K.C.B., D.Sc., LL.D., F.R.S., is president, and a long list of patrons has been issued, which includes practically the whole of the presidents of the various engineering societies and many of the best-known names connected with the engineering profession and industry. It is stated that, notwithstanding the great developments which have taken place in the engineering industry within the last

few years, no exhibition exclusively devoted to engineering and mechanical appliances has been held since the year 1885. It is proposed that the sections shall embrace, amongst others, gas, steam and oil engines (prime movers); transmission (power); lifting appliances and construction plant; hydraulic work; pneumatic work; electrical appliances, power and light, telegraph and telephone; printing machinery; sanitary, building and estate engineering appliances; engineers' stores, etc. We understand that a large number of applications for space have already been received from some of the largest firms connected with the engineering industry. The managers of the exhibition

are Messrs. G. D. Smith and F. W. Bridges. The offices are at Balfour House, Finsbury-pavement, E.C.

Machine Rulers', Bookbinders',
AND
Allied Trades Overseers'
Association.

The members and friends of the above Society mustered in great force the other evening at the Talbot Hotel, London-wall, upon the occasion of their first Bohemian concert. A high-class entertainment had been provided by the stewards, Messrs. W. Doyle, F. J. Wedge, G. Smith, and W. Venum, and under the experienced supervision of musical director W. J. Lacey, everything went as merrily as the proverbial wedding bells.

Mr. T. J. Hunt, that most genial of chairmen, presided, and amongst the artists who contributed to the enjoyment of the evening were Miss Julia Ascot, Miss Ivy Wilson, Harry Lindley, M. A. Poole, Frank Draveni, the "Happy Tramp," Harry Edwards, J. Goode, Patsy Lloyd, and the talented Clifton Quintet, and by special request Mr. W. Purslow recited the "Irish Fire Brigade," followed as an encore by a rendering of "Rubenstein's Piano," which fairly brought down the house.

Mr. J. J. CROFT, the president, in proposing the vote of thanks to Mr. T. J. Hunt for presiding, expressed the committee's pleasure in seeing such a large muster of friends present, particularly of ladies, who had made their first appearance, but he trusted not their last, and hoped if any overseers were present who had not already joined the Society, he might add their names to the membership. The progress of the Society had been remarkable, and its financial position was good and constantly improving. Its objects were such as would appeal to all thinking men, viz.:—Meetings for mutual intercourse and social relaxation; the assistance of members temporarily unemployed; legal assistance when required; assistance to the widow or nominee upon the death of a member. In conclusion he would ask them to give their best thanks to the Chairman for the genial and happy manner in which he had fulfilled the duties that evening. Most of them knew how generously he supported the trade charities, and how willingly he assisted in their pleasures.

The vote was carried with acclamation, and with the singing of "He's a jolly good fellow," a very successful reunion was brought to a close.

A. EDLER & CO.,

19 & 20, Appold Street, LONDON, E.C.

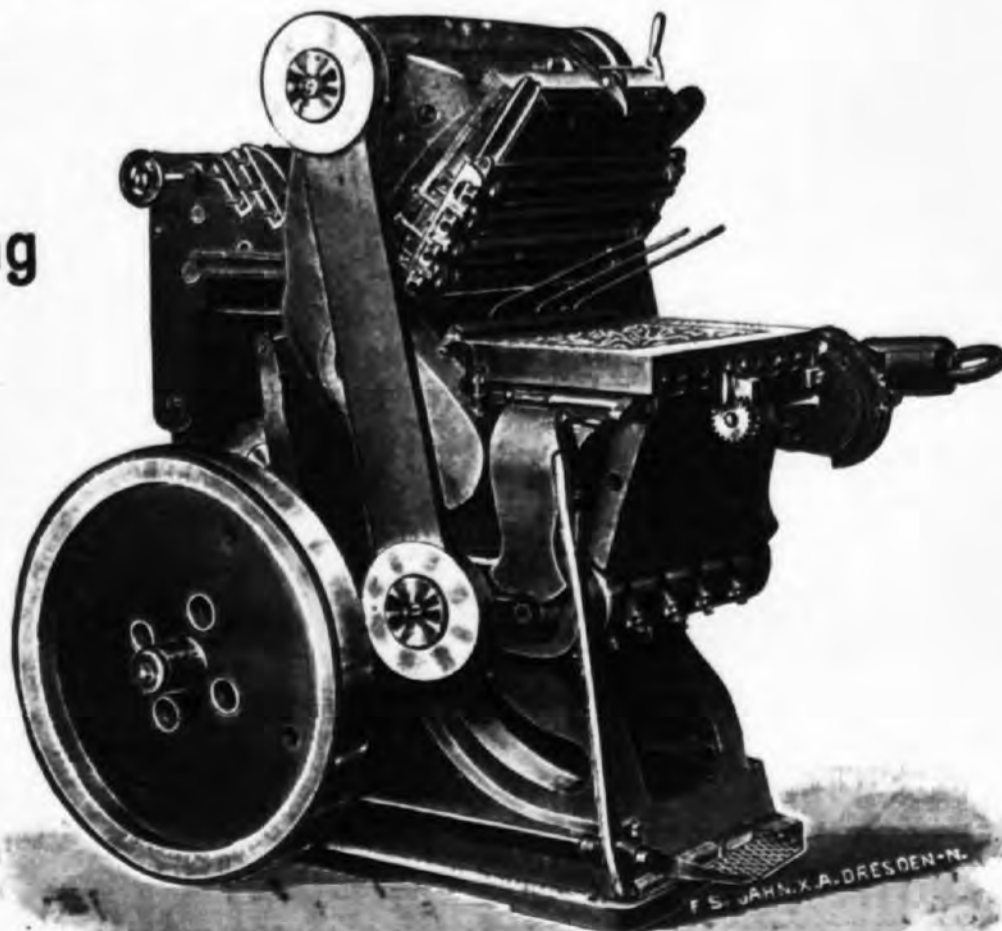
THE NEW PATENT EMBOSSING, PRINTING, AND BLOCKING MACHINE

"EDLER.

A Revolution
in Embossing

ABOUT DOUBLE
THE SPEED
OF ANY OTHER
MACHINE AT
ABOUT HALF
THE COST.

OUTPUT :
20-25 IMPRESSIONS
PER MINUTE.



Copies of Testimonials received between January 14th and February 23rd, 1906, from :

MR. WILLIAM LYON, Jan. 13th, 1906.
474, Sauchiehall Street,
Glasgow.

In reply to yours of the 11th inst., we are well pleased with the "Edler" Press, which is a very powerful machine.

Messrs. Cross and Co., London.
53, Tabernacle Street, Jan. 31st, 1906.
E.C.

In reply to your enquiry respecting the working of the big "Edler" Press, embossing surface 21½ by 27½, which we have had running since October last, we think that the best testimonial we can give you with regard to the strength and capacity of the machine is the enclosed order for a second machine of the same class.

Messrs. ROBERT PECK and SON, London,
85, Golden Lane, E.C. Feb. 7th, 1906.

The "Edler" Press for simultaneous embossing and printing up to 15½ by 21½, which we received on the 1st May, 1905, has given us every satisfaction. It fully answers our requirements with regard to very heavy embossing and finest class inking.

Messrs. R. H. FILLMER and Co., London,
17-20, Little Sutton Street, Feb. 20th, 1906.
E.C.

The "Edler" Press with an embossing surface of 15½ by 21½, which you put down in our factory at the end of October last, answers our expectations in every way. We use it for very heavy embossing and for the modern "cutter crushed" work, which requires very heavy pressure.

We have no fault whatever to find with the machine.

Messrs. PAUL SUSS, A.G., Feb. 21st, 1906.
Muegeln, near Dresden.

Your patent Embossing Press which we received from you in May, 1905, has been working since that time in our Relief Stamping Department for very heaviest work. We willingly certify that we have so far been extremely satisfied with the capacity of this machine.

Some Popular Photo Post Cards.

A firm specialising in "Real Photograph" pictorial post cards that are meeting with a wide and popular demand is the Rapid Photo Printing Co., Ltd., of 4 and 5, Bridgewater-square, Barbican, London, E.C., their works being at Hampton Hill, Middlesex. Their comprehensive series embrace well nigh all that is possible in the way of a photograph. The most popular series, we are informed, and one they make a speciality of, is the twopenny brown glossy actresses in the Photographs of Celebrities series, to which they are practically daily adding new subjects. The most popular sellers are, of course, the sisters, Phyllis and Zena Dare and Gabrielle Ray, but other favourite actresses attract numerous purchasers, such as the charming portraits of Sybil Arundale, Dora Barton, Billie Burke, Pauline Chase, Camille Clifford, Madge Crichton, Mabel Green, Madge Lessing, Delia and Kitty Mason, Gertie Millar, Ethel Oliver, Gaynor Rowlands, Nina Sevensing, Marie Studholme, and Vesta Tilley, all of which are largely represented. Favourite actors, too, are in evidence, and in fact portraits of all the best-known stage celebrities are stocked, in different poses. Then there are celebrated musicians, singers, and organists, such as Sir G. Martin, Dr. Elgar, Sir Frederick Bridge, the latter a much sought-after portrait, as well as the leading politicians and Church dignitaries, the last-named series including the Archbishop of Canterbury, the Bishop of London, Dean of Westminster, Rev. J. B. Meyer, Dr. Horton, Dr. Clifford, all good selling cards. The late Sir Henry Irving, in different characters and poses is another interesting series. There are also a few memorial post cards.

Royalty is well represented, and amongst this interesting series attention may be drawn to the studies of the King of Spain and his future Queen, some single figures and other cards showing the happy pair together. These are selling well just now whilst public attention is so much riveted upon them. The fine portraits of the German Emperor are, perhaps, more stable sellers. There is a capital assortment of photographs of famous football teams, many of these forming interesting mementoes, such as the victorious New Zealand team, and the distinguished team that beat the All Blacks in Wales. Athletes, swimmers, cricketers, jockeys, race horses, Japanese, are among other attractive series.

Turning to the subjects of a more miscellaneous character, there is a good collection of views of the important towns in the British Isles. Seaside resorts and the splendid views of Shakespeare's birth-place are always popular, and there have recently been added some pretty views of the Thames Valley and of such favourite places as Windsor, Richmond and Eton. In view of the forthcoming up-river season these are sure to redouble their popularity. Among other series that have been lately added to the collection we may mention seven views of British warships and a submarine, and a pretty collection of animal studies. These latter depict cats and dogs and wild animals. There is also a charming selection of children subjects, depicting the humours and frolics of the nursery. "Name" series is another variety that have been a great success and are still selling well. There is a selection of 150 different girls and boys' names, in brown and black and white glossy, and some are hand-coloured. Messages, Mottos and Greetings are a series of a similar character, and equally as popular sellers. These cards are very artistically designed, the fancy letters being embellished with quaint floral designs. Greetings from "Towns" is another series embodying the same idea, the letters being filled in with miniature heads of actors and actresses. A set of seven attractive Easter greeting cards have been selling well, and there is still time to secure some of these seasonable cards. There is also a series of "At Home" cards applicable to each of the seven days of the week.

The "Song Series" is another very good selling line, favourite, sacred, sentimental and comic songs being illustrated, the first-named with reproductions of famous pictures, and the others from live models. They are high-class "Rapido" bromide cards in black and white. A delightful series of "Dickens," in black and white matt, portray Mr. Bransby Williams impersonating different well-known characters, with appropriate quotations. The series of "The Nation's Pictures" merit their claim to be the all works of art. The reproductions appear in plate sunk panels, and bear the artist's name as well as the title and museum or gallery where the pictures are exhibited. They are published in sets of six, and are remarkably cheap twopenny cards. Some may be had hand-coloured to sell at threepence each.

A series of portraits of actresses in more ornate style pleasingly depict a popular actress and the sport she indulges in. Another set shows a large initial accompanying the portrait of the actress, the initial suggested by the actress's name and in turn suggesting the flower that decorates the card. The "Cameo" (bas-relief) post cards are an attractive series. They are real bromide photographs bas-reliefed and backed, and are published at 3d. each. About 50 different subjects are now ready, mostly portraits of actresses, but including two other good selling cards, the King and Queen. They are all supplied in 2d. brown glossy, hand-coloured, to sell at 4d., or hand-coloured and jewelled to sell at 5d. each. The King and Queen, for which the firm are experiencing a large demand, are also done heavily tinselled and sequined. Portraits of actresses may also be had hand-coloured, and very tastefully done they are too, or in one bright colour and gold, such as a brilliant ruby, heliotrope, violet, or green. These are selling very well, and there is a large assortment.

As a side line the firm are publishing a series of 25 penny coloured prints, assorted, of the most popular actresses and musical artistes, to which series they are adding 25 new designs. The firm's catalogue, giving alphabetical list and other particulars, including prices, should be written for.

Leather Improved Upon.

An Opening for Bookbinders and the Fancy Leather Trade.

Users of leather or its substitutes, whether for books, boxes, perambulators, or the many articles of the fancy stationer in which leather plays a conspicuous part, have missed a great opportunity if they have not yet looked into the merits and advantages of the material now pretty extensively used under the name of "Rexine." We are not saying this on the spur of the moment, but after careful consideration and in the knowledge that it already largely figures in the list of materials used by our own and some foreign Governments, and British railways as well as several railways abroad.

We all know the preference the average book buyer has for a book bound in

leather, and also the comparatively high price he is willing to pay for it. And so with other fancy articles, if they are in real leather they immediately jump a long way up in public estimation. Yet leather has its disadvantages not at all inconsiderable. In the case of books, for example, judged from a utilitarian point of view, the leather bound ones hardly stand the very much greater amount of hard wear (at all events modern leather does not) over the cheaper cloth bindings that one is on first thoughts inclined to give them credit for. And some of them, how easily they become irremediably damaged, scratched or faded.

Well, "Rexine" is offered to us as a substitute for leather, and it resembles it to a remarkably deceptive extent, but it also has the peculiar qualification that notwithstanding its lower price, it possesses many advantages which leather does not possess. Thus, it does not stretch, it does not crack or peel, and it does not become hard or sticky; it is waterproof, and when dirty or stained with grease, liquors, etc., can be washed clean again with water or disinfectants; it is scratch proof, germ proof, and rot proof; it has not the disagreeable odour of some leather cloths; it will stand in any climate and the colours are permanent; it is less easily damaged than leather, lasts longer, and is much cheaper. So claim the manufacturers, the British Leather Cloth Manufacturing Co., Ltd., whose head office and works are at Hyde, near Manchester. Its durability for the uses to which bookbinders or the fancy leather trades would put it may be relied upon, when it is remembered that it is made to stand the hard wear of coverings of carriages, perambulators, and the various uses to which upholsterers, carriage builders, shoe and slipper manufacturers, etc., put such material.

These serviceable leather cloths are made in various qualities and in a very large assortment of shades, rendering them suitable for all purposes for which leather is used. A large pattern book of "Rexine" in "two and three-colour effects," that we have now before us, is an example of a new range of cloths that the above-named enterprising firm have recently placed upon the market, and we are informed and can readily believe, they are finding a ready sale. The patterns are in splendid imitation of crocodile skin, and the range is a particularly fine and extensive one, including a great

variety of high-class colours and effects, conceived in admirably good taste and with a most fruitful imagination. Pocket-book makers, box and pattern card-makers, and the fancy leather trade should be able to find in this book a wealth of suggestions for the introduction of novelties and helps towards that boom in trade that is so much to be desired. We have little doubt, in view of the continued advances in the price of fancy leathers, that these patterns will create a big demand amongst handlers of these goods. Our readers should not delay to send for samples and prices, which will be willingly furnished on application.

NEW DESIGNS IN ADVERTISING
DATE-CASES, BLOTTERS,
3-Colour Card Calendars,
New Cameo-Embossed Calendars,
Match-Boxes, Advertising
Balloons, etc.
Modern Manufacturing Plant.

Wm. Ashton & Sons, Ltd.,
Grosvenor Works, SOUTHPORT.

FOREIGN & COLONIAL
Printers, Lithographers and Bookbinders
requiring any NEW or
GOOD SECOND-HAND
MACHINERY,
TYPE, or
MATERIAL

should communicate with
The Printers' Exchange,
Printers' Furnishers,
Engineers and Brokers,
Fleet Works: 57, CHARLES STREET,
SHEFFIELD.
Everything for Printers.

The Result of 50 Years Experience.

Krause Cutters

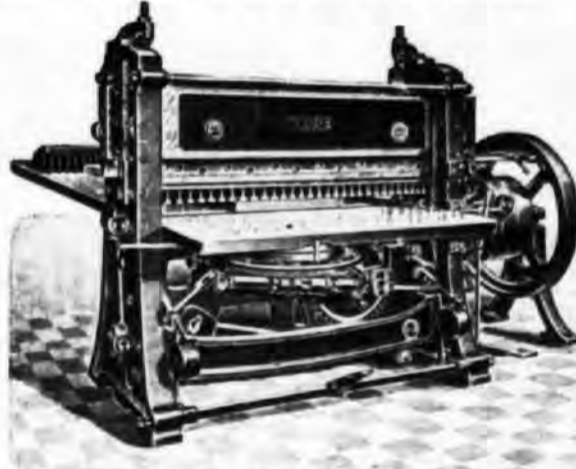
ARE THE BEST IN THE MARKET.

POWERFUL



DOUBLE THREE-SIDED TRIMMER
for cutting or trimming TWO piles of folded paper and books ON ALL EDGES with ONE SINGLE CLAMPING.

German Patents No. 131,900 and 137,004.

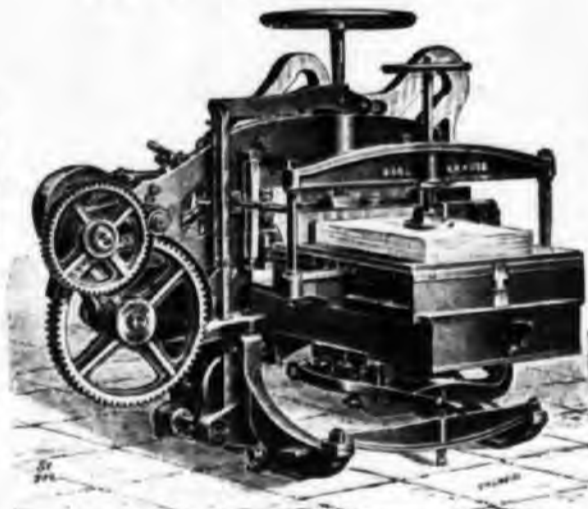


RAPID CUTTER.

A Giant in Strength, Noiseless Running, Self-Clamp, Cut Indicator, Rapid Movement of Back Gauge, Micrometer Screw, Automatic Stoppage at any moment required, and all other modern improvements.

German Patent No. 131,931.

DURABLE



FOUR-SIDED REAM TRIMMER

for cutting a pile of unfolded paper ON ALL FOUR SIDES with ONLY ONE CLAMPING.

German Patents No. 95,319 and 97,551.

A FEW WORLD-KNOWN NAMES OF USERS:

J. H. Saunders and Co., Ltd., London
Tillotson and Sons, Ltd., Bolton.
Smith and McLaurin, Johnstone.
Clyde Paper Co., Ltd., Rutherglen
(2 mach.).
Paper Box Factory of W. H. Hooper,
North Fitzroy, near Melbourne.
The Brown Bros., Ltd., Toronto.
August Lyra, Riga.

F. Tempsky, Vienna.
Franklin-Verein, Budapest (2 mach.).
A. Staderini, Rome.
Paolo Pigna, Alzano, Maggiore.
E. A. Enders, Leipzig (4 mach.).
Bibliographisches Institut, Leipzig
(2 mach.).
Julius Klinckhardt, Leipzig.
Kölnische Zeitung, Cologne.

Elberfelder Papierfabrik A.-G.
Elberfeld (10 mach.).
La Lithographie Parisienne, Paris.
Joseph Charles, Paris.
Fabrica Nacional de Timbre, Madrid.
K. Adelstein, Warsaw.
Lilius and Hertsberg, Helsingfors.
P. Hergogs Bokbinderi-och Bokforlags-Aktiebolag, Stockholm.

All my Machines are built on the most modern lines, and are fitted with the latest improvements.

KARL KRAUSE, Leipzig,

Machines for the whole Paper Industry.

These Machines may be seen at

Messrs. KAMPE & Co., 2, Sandland St., High Holborn, LONDON, W.C.

"PERFECTION"

WIRE STITCHING MACHINES

ARE THE BEST.

Send for Catalogue and Prices to

The J. L. MORRISON Co., 27-29, FURNIVAL STREET,
LONDON, E.C.



D. F. TAYLER AND CO., LTD., New Hall Works, BIRMINGHAM.

COLOUR and LETTERPRESS PRINTERS.

PRINTING done for the TRADE.

Chromo Sheet Almanacs, Leaflet Calendars, etc., for 1907. Samples now Ready.

Hanoverian Paper Mills, Ltd.,
ALFELD-GRONAU (Germany)
MAKE THEIR OWN CELLULOSE, WOOD AND STRAW PULP.
7 Machines. Daily Production: 30/35 Tons.

M.G. Buff and Coloured ENVELOPE PAPERS.
M.G. and Machine Finished BAG PAPERS.
M.G. BROWNS and Coloured PACKINGS, PRESSINGS, TEAS, &c.
CARTRIDGE, WRITINGS, DRAWINGS, &c.
IMITATION PARCHMENTS (White and Coloured).
And OTHER QUALITIES TO ORDER.

Sole Agents for the U.K.:— **E. A. BURNELL & Co., 77a, Queen Victoria St., LONDON, E.C.**



PLEASE NOTE.
Colonial Printers & Stationers.

IT WILL PAY YOU:
Before ordering your new Season's Stock of PRIVATE XMAS CARDS; BALL PROGRAMMES; MENUS; MEMORIALS; INVITATION; EMBOSSED; IVORY; ANTIQUE and FANCY CARDS, to WRITE AT ONCE for Samples to

JUST ONE WORD The London Artistic Card Co., 109, Upper Thames Street, LONDON, E.C.

John Heat's Pens
(24 SAMPLES 7 STAMPS) **BIRMINGHAM.**

Sole London & Export Agents **GEORGE WATERSTON & SONS,**
8, St. Bride St., Ludgate Circus, LONDON, E.C.



FIRM FOUNDED IN 1818

The Oldest and Largest Manufacturers of
PRINTING INK
IN THE WORLD.

Nine Factories—Forty Branches.

CH. LORILLEUX AND CO.,

2, MACLEAN'S BUILDINGS,

New Street Square, LONDON. TELEPHONE 1417 HOLBORN.

42, Vicar Lane, BRADFORD. TELEPHONE 398 BRADFORD.

GRAND PRIX—ST. LOUIS. The Very Highest Honour.

LARGEST FACTORY IN LONDON.
LARGEST VARIETY OF SHAPES AND SIZES.
LARGEST VARIETY OF QUALITIES.
LOWEST QUOTATION FOR QUANTITIES.
SAMPLES AND PRICE LISTS ON APPLICATION.

FENNER, APPLETON & CO.
77, ST. JOHN ST. LONDON, E.C.

WHOLESALE & EXPORT ONLY

Registered Address: FENNER, LONDON.

Correspondence invited from STATIONERY and PAPER Manufacturers, MACHINERY MAKERS, and the Trade generally.

W. E. SMITH, Wholesale & Manufacturing Stationer & Printer,
22, 24, 26, 28 & 30, Bridge Street, SYDNEY, And NEWCASTLE, N.S.W.

London Buying Office: Norfolk House, LAURENCE POUNTNEY HILL, E.C.

Where SAMPLES, CATALOGUES, and PRICE LISTS will be received.

Enquiries are Solicited
— FOR —
GUMMED PAPERS

which we can now make quite NON-CURLING.

Samuel Jones & Co.,
56, CARTER LANE,
LONDON, ENGLAND.

PICTURE POST CARDS,
FLOWERS and FRUITS,

Reproduced direct from Nature. About 230 Designs.

Samples to be obtained by remitting 8/- and giving references.

Deubner & Scholze,
ART PRINTERS,
BAUTZEN, SAXONY.

D. & S. OCKLESTON, Mill Bank Paper Mills, near MANCHESTER.
KRAFT PAPERS

Of all kinds in Brown, Blue, Buff and other colours. Also Golden Browns, Silver Greys, Etc.

Some Useful Printing Machines.

The well-known firm of Albert and Co., Frankenthal, Germany, whose printing machines are to be found at work all over the world, have recently made several improvements in their rotary presses for various purposes that keep them quite in the front rank of this class of printing machinery, and the illustrations we show herewith represent two of the firm's most up-to-date presses, one for printing in five colours, the other for printing in two colours. The Five Colour

seen show first-class work, especially one German journal, *Nimm Mich Mit*, in which the advertisements as well as the pictures are printed in colours. Messrs. Albert have several Colour Rotaries in course of construction, amongst them one for the *Petit Parisien*, which office has ordered three Albert Rotaries within the last twelve months. The firm also build a Six Colour Rotary Press on which the very finest work can be done, as the specimens shown us testify to.

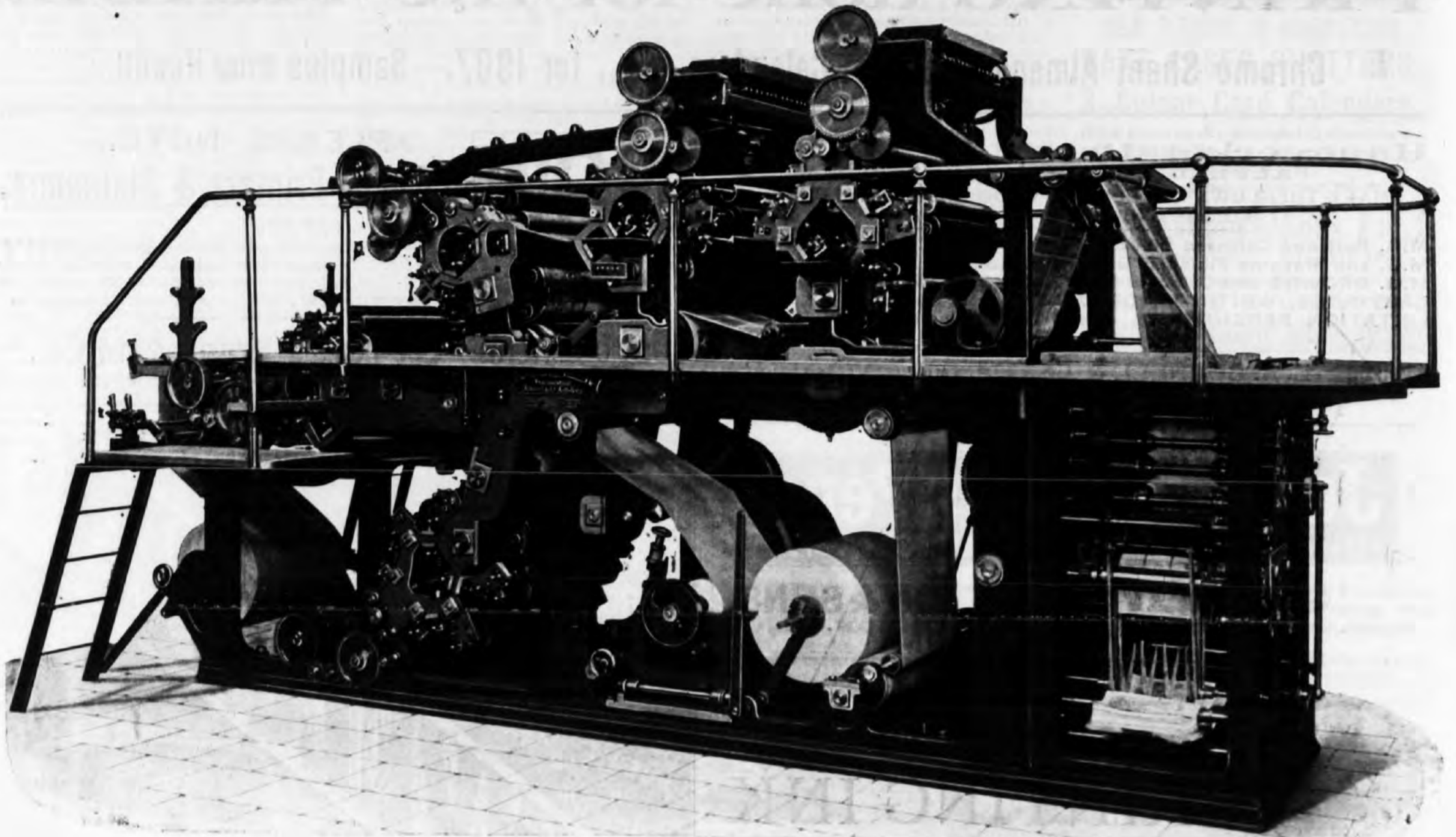
Another useful machine is the Two-Colour Rotary, which is arranged to print in any size from 40 by 47 inches downwards. It prints on one side of the paper only, and can be worked either as

structured, this is a machine that for its various useful qualities merits the close attention of the printer.

Messrs. Albert and Co.'s Rotary and other printing machines are in some of the best offices in the United Kingdom, and a Two-Roll Newspaper Press has just been installed in the offices of the *Cork Examiner*, where it can be seen, by arrangement, by those interested. It is two pages wide, and will print, inset, fold, and deliver counted—and also pasted, if desired—16, 12, or 10-page copies of 6 to 10 columns at the rate of from 10,000 to 12,000 per hour; or 8, 6, or 4 page papers at the rate of from 20,000 to 24,000 per hour. A special feature of

crossways on the machine, while the triplicate leaf that is retained in the book for reference is not perforated. This is a machine of many uses, and is utilised also for printing pictorial wrappers, bills, and other work. The press is a compact one, all working parts are easily got at, and the workmanship and finish are excellent.

Messrs. Albert and Co. build all kinds of printing machines, from the smallest platen to the mammoth newspaper multi-colour rotary, and among the great Continental firms of press builders there is none with a higher reputation. Their manufactures have received medals and awards at many exhibitions, including



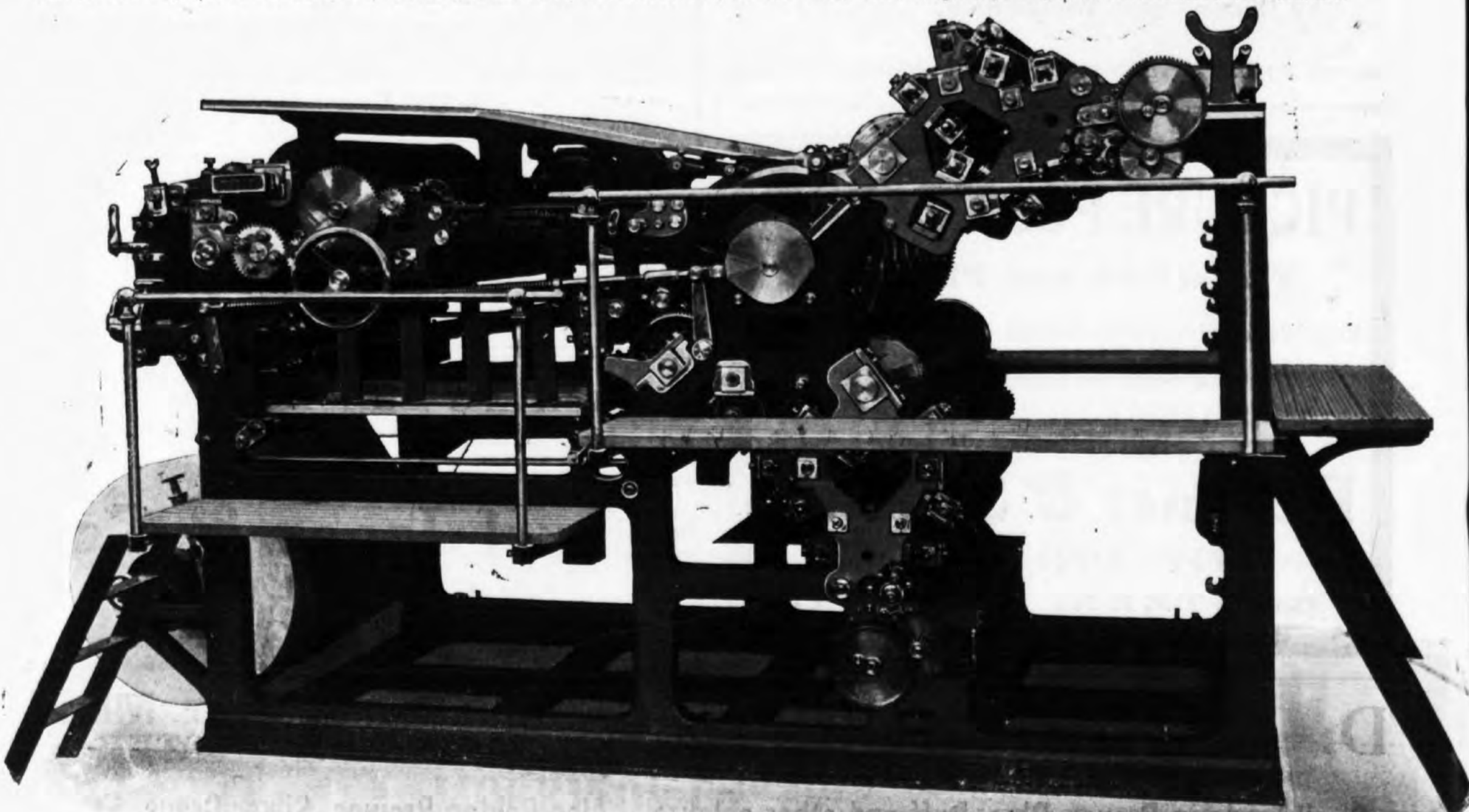
Messrs. Albert & Co.'s Five Colour Rotary Press.

Rotary may be used for newspaper, book, or magazine work in which the illustrations are in colours, and prints black on one side of the web and four colours on the other; for newspaper work the machine runs at the rate of 5,000 16-page papers per hour, or 10,000 8-page papers, delivered complete, folded, inset, and pasted. The press is built on the most approved principles, possesses remarkable inking powers, and is capable of printing fine half-tone blocks, while there is a set-off arrangement that completely obviates smudging. Machines of this class are now running on many coloured publications, and some specimens that we have

a sheet or a web machine, at will, and according to the kind of paper used, while it will print the heaviest wrappings, or even cardboard. When printing from the web it cuts the sheets to the required size, and if desired the web can be slit in two while printing. The machine has a capacity of from 3,000 to 7,000 impressions per hour, according to the class of work being done and paper used. For all classes of one-side printing in two colours the press is most useful, while for the printing of coloured wrappers for soap packets, patent medicines, and other packed goods it is pre-eminently fitted. Compact and well con-

structed, this machine is that, from two reels, 10-page copies can be produced, and 12-page copies consisting of three four-page sheets, all inset in book form. The firm is now building a Two Reel Machine, with two folders and tapeless delivery for an English office, and for a large Scottish printing works a special rotary has been built and installed, which is noteworthy in that it prints a 24-page weekly paper of large circulation, and can also be used for the production of shopkeepers' sale cheque books, with eight consecutively numbered cheques on each leaf, the perforations of the unicate and duplicate being done at the same time lengthways and

Leipzig, 1897, and Paris, 1900. They have issued an English edition of their comprehensive catalogue, most handsomely got up, and printed in the best manner, in which their machines are described and illustrated. A feature of all the firm's machines is their smooth and almost silent running, which is the result of their perfect design and construction, and of the fine finish that is given them. We have been able to refer to but one or two of the many machines that are turned out at Messrs. Albert and Co.'s works and refer our readers for further information to the firm's sole British agent, Mr. A. Bartzack, 34, Paternoster-row, London, E.C.



Messrs. Albert & Co.'s Two Colour Rotary for One Side Printing.

OUR Buyers' Guide

TO THE

Export Markets

FOR THE

PRINTING, STATIONERY, PAPER,
BOOKBINDING, BOOK-MAKING AND
ALLIED TRADES, IMPORTERS, AND
COLONIAL STORES.

A Useful GUIDE for COLONIAL and
FOREIGN BUYERS.

Up-to-Date.

PRINTERS' ENGINEERS AND
PRINTING MACHINE MAKERS.

Albert and Co. Act. Ges., Frankenthal, Germany.—This is one of the largest firms in the world of printers' engineers, and their manufactures are well known in all countries. Everything is made, from a platen press to a newspaper rotary, including high-art, two-revolution, colotype, tincture, and litho machines. The firm's work is of the highest class, and a number of improvements have just been made in their colour presses which include rotaries that print in from two to six colours and do the finest half-tone illustrative work. Mr. Adolf Bartzack, Paternoster House, Paternoster-row, E.C., is the London agent, and the firm has branches at Paris, St. Petersburg, Moscow, Odessa, Warsaw, Milan, Madrid, Budapest, Stockholm, Christiania, Copenhagen, Amsterdam and Brussels.

Actien-Gesellschaft fur Schriftgieserei und Maschinenbau (Typefoundry and Machinery Co.), Offenbach-on-Main, Germany, are manufacturers of every description of printing machines and presses, and also of body and jobbing types, their specimen book of which contains an excellent selection of faces. The firm have

extensive works, and a feature of the business is that complete printing outfits are kept always in stock ready for shipment at a moment's notice. The permanent stock of type is always about 4,000 cwt.

The "Bremner" Machine Co., Ltd.—A well-known firm of printers' engineers, whose name is synonymous with good work, and whose machines for printers, bookbinders and stationers are to be found all over the civilized world. They have recently introduced a self-clamp guillotine of entirely new design, possessing many special features, that is noiseless in action and extremely rapid, easily making twenty cuts per minute. A new embossing press is also made by the firm that is capable of doing the finest work, and can also be used for colours. Some specimens of embossing on this press have been submitted to us for inspection, and we find them beautifully executed. It should find favour wherever this class of work is done. A new proof press is being manufactured by the firm in which special features have been embodied. It has a type-bed and cylinder, like a Wharfedale, and perfect register is secured by the improved Gripper system used, while the self-inking arrangements are perfect. The press is made in two sizes, to print, respectively, a sheet 20 by 15 inches and 30 by 20 inches. The London branch is at Messrs. Harrild and Sons, Fleet Works, E.C. The firm has just constructed a compact Rotary Toilet Roll Machine for a well-known firm, which prints and perforates the reels, slitting and reeling five widths. They are continually improving their various types of machines.

The Cropper-Minerva Machines Co., Ltd., Minerva Works, Nottingham, are the successors to the late firm of H. S. Cropper and Co., of platen machine fame. The "Cropper" is well-known to every printer, and it would be superfluous to dwell on its good qualities. A number of improvements have lately been introduced. The new and smaller type of this machine (the "Cropperette") is well worth attention. This firm also usually have in stock a number of excellent second-hand Minervas, as well as other descriptions of platen and cylinder machines. They have introduced a useful platen guard with the object of preventing accidents to the operator's fingers. London office, 49A, Farringdon-street, E.C.

Dryden and Foord, London.—A firm of printers' engineers, celebrated for their perfecting machines, which of late have been greatly improved. A machine has recently been brought out that doubles the speed of flat-bed work and is just the thing for fine magazine printing.

A. Edler and Co., 19-20, Appold-street, London, E.C.—This firm has extensive show-rooms at the above address, where is shown all kinds of machinery for the printing and allied trades. Messrs. Edler and Co. are agents for several Continental firms, including: The Vereinigte Maschinenfabrik, Augsburg, und Maschinenbaugesellschaft, Nurnberg; Friedrich Heim and Co., Offenbach o/M; and Faber and Schleicher, Ltd., Offenbach o/M. The firm also supplies producer gas plants for driving electric generators on a new principle that is worth attention. Tin printing machines are a specialty, as are also heavy embossing presses.

Joseph Foster and Sons, Soho Iron Foundry, Preston.—The firm of Foster's has made remarkable progress of late years, not only in their material prosperity, but in the machinery they turn out. They have brought their rotary web machines (to print either from type, stereo, or both combined) to high perfection, and their Wharfedale or stop-cylinder job machine is one of the best we have. They are makers of litho machines, single and double feed letterpress in all sizes, two-cylinder perfectors, a rotary web poster machine, and others. They also have a full range of stereo foundry appliances, damping machines, and news and book-folding machines. They have recently received a repeat order from the proprietors of the *Evening Post*, Wellington, New Zealand, for one of their two-reel straight-line printing and folding machines, with a capacity of 24,000 copies per hour of a 2, 4, 6, or 8 page paper, or 12,000 of a 12 or 16 page paper. This is the second machine of the kind that Messrs. Foster have put in the *Evening Post* office. They have also installed in the office of the *Daily Mirror* one of their patent web contents bill machines, for printing announcements in two colours at one working. These machines are also at work at the offices of the *St. James's Gazette*, *Westminster Gazette*, *Morning Post*, *Daily News*, *Graphic*, *Star*, *Evening News*, *Echo*, the *Dublin Freeman's Journal*, and elsewhere.

Furnival and Co., Ltd., Reddish Iron Works.—This is one of the largest engineering concerns in the kingdom devoting itself to machinery for printers, stationers, and bookbinders. It originally made its reputation by the introduction of the "Express" guillotine machine. The present "Express" is a self-clamp, and its quickness is marvellous. For many years Messrs. Furnival have enjoyed a high reputation for their lithographic and letterpress machines. They also manufacture two-revolution machines on the American principle, letterpress machines of the Wharfedale type, colotype printing machines, and platen machines. Also an excellently constructed two-colour ma-

chine, equal to the finest class of work. Messrs. Furnival and Co., Ltd., make the celebrated Gill's hot rolling machines; an overhead feed press of improved construction, and a guard for the platen class of machine. An all-size rotary and a rotary for printing from aluminium plates are among some of their excellent appliances and are indispensable to the up-to-date printer.

R. Hoe & Co., Mansfield-street, Borough-road, London, S.E.—The name of Hoe and Co. will always be associated with the greatest inventions in the way of typographical engineering that the world has witnessed, and in a brief notice, such as this, of their productions, but a very few can be mentioned. Their latest achievement is the marvellous Double Octuple Rotary Perfecting Press, which has a capacity of considerably over 200,000 finished newspapers per hour, all inset, pasted, cut and folded, with cover and centre pages printed in several colours. From one delivery other machines will print 24,000 16, 20, or 24 page papers, composed respectively of two 8 page, two 10 page, and two 12 page sections laid one on the other, full page size, and then folded together with the cover and centre pages of both sections in colour. These are the largest printing machines that have yet been constructed, and the many combinations that may be worked render them suitable for all classes of newspaper as well as magazine work. The "Sextuple Presses" print either in one or more colours, and in many combinations of pages. The "X" pattern Quadruple Press runs at a speed of 48,000, 4, 6, or 8 pages; 24,000 12, 14, or 16 pages; or 12,000 20 or 24 pages per hour, folded, counted and pasted. Another press prints and folds 96,000 two-page supplements, or 48,000 four-page papers, or 24,000 eight-page papers per hour. These are machines using a double width roll of paper. Other machines, having a single roll, print and fold four or six-page papers at 24,000, and eight or twelve-page papers at 12,000 copies per hour, the supplements being insetted, and, if desired, pasted in as they pass through the machine. Another single roll machine prints and folds four-page papers at 24,000, and eight-page papers at 12,000 copies per hour. Book, magazine, and pamphlet presses are also made in many forms and with varying capacities. The firm does not confine itself to newspaper machines only, but supplies fast machines of improved design for journals having moderate circulations and limited resources. Flat-bed and two-revolution cylinder presses are also made, and stereotyping, patent wire stapling, late news, and other appliances are constructed to meet the most exacting requirements of the newspaper or magazine printer, as well as a variety of other machines, over a hundred types of which, in one

PICTORIAL POSTCARDS.

Special Offer. Colonial Sample Parcel.

This Parcel contains the Latest Novelties, and is specially prepared for the Colonies. Comprising Actresses (real photos), Fancy Cards, Views in Chromo, the latest Novelties, &c., no less than

500 1d. and 2d. Cards, which will be forwarded against remittance for **21/-**
The retail value of these Cards in England is £3 4s. 6d.

As this is a Special Sample Offer, only one parcel can be sent to each dealer.

Ask for Quotations and Samples for Cards

Printed from your own Photographs.

The Prices will astound you.

Catalogues Post Free to readers of the "British and Colonial Printer and Stationer."

ADDRESS COLONIAL DEPARTMENT:

The Pictorial Post Card Co., Ltd.,

Only Publishers of the "EMPIRE SERIES."

15, RED LION SQUARE, LONDON, W.C.

size or another, are made in all. Messrs. Hoe and Co's works have recently been greatly enlarged, new buildings having been erected, and the most up-to-date British and American machine tools installed. A full description of the new London works appeared in our issue for June 23rd, 1904.

Peter Hooker, Limited, Blackhorse-lane, Walthamstow, E.—This firm (which has removed to this address from their old place in Farringdon-road) have a ticket printing machine which represents a great advance upon the older Lewthwaite machines, upon whose principles it is based. The machine automatically feeds and delivers 10,000 to 12,000 tickets an hour, printed in one or more colours on both sides, and consecutively numbered.

John Jardine, Deering-street, Nottingham.—This is an old-established engineering firm, well known in the lace trade. They have put upon the market several platen printing machines of high quality, and possessed of many improvements, especially in the inking apparatus, the aim being to produce a first-class article at a moderate price for cash. The No. 12 Jardine platen is a foolscap folio, listed at £24, which is claimed to be the cheapest machine of its class in the market. Paper-

cutting machines are also made by the firm, as well as shafting, pulleys, belting, hangers, etc.

Hugo Koch, Schnellpressenfabrik, Leipzig-Connewitz, Germany, is a well-known manufacturer of presses for letterpress, lithography, aluminium, zinc, colotype, tin, celluloid, wood, and pottery printing. He also makes bronzing machines, litho stone planing machines, and other apparatus for the trade. Price lists, in English, will be sent on application.

Friedr. Krebs, Frankfurt a/Main-Bornheim (Bergerstr. 213), manufactures and supplies all kinds of machinery used in the printing, lithographic, bookbinding, boxmaking, and kindred trades.

Lawrence Printing Machinery Co., Ltd., 57, Shoe-lane, London, E.C.—This house was recently formed to take over the business of Mr. P. Lawrence, who has a reputation among printers and stationers as pioneering the introduction of American machinery and stationery specialties. The company are sole agents for the Colt's Army press, adaptable for cutting and creasing, printing on wood, embossing, and blocking. This machine sells freely in England

amongst firms who aim at obtaining the best appliance for first-class solid letterpress job work, and as the prices have lately been revised it should become more popular than ever. Several mammoth sizes of the Colt are now on view in the show-room. The firm also handle the Wesel Manufacturing Company's specialties for printers, electrotypers, stereotypers, and photo-engravers, and are agents for the celebrated "Huber" printing machines of various classes, which have found so much favour in America and this country, and supplies excellent glueing machines for paper-box makers, as well as other appliances.

Lotz, Abbott and Co., Ltd., 66, Queen-street, Cannon-street, London, E.C., supply wire stitching machines for printers, bookbinders, and box makers, to work either by hand, treadle or power. They also supply platen printing machines, punching, cutting, scoring, and grooving machines, complete box making plants, and wire in coils or spools, together with staples of all kinds.

Linotype and Machinery, Ltd., 188-189, Fleet-street, London, E.C.—This firm, which is an amalgamation of the Linotype Co., Ltd., and the Machinery Trust,

Ltd., are the manufacturers of the Linotype Composing Machine, now so universally used in all parts of the civilised world. The Linotype is constructed at the firm's extensive works at Broadheath, near Manchester, where also are made the celebrated "Miehle" and "Century" letterpress printing machines that are so much appreciated by printers for doing the best illustrated and other work at a high speed. Another machine is the "Centurette," a small sized two-revolution press, embodying the best features of the well-known "Miehle" and "Century" presses. It is likely to be extremely popular in the printing trade, on account of its moderate price, its high speed, and efficiency. It has already been ordered by some of the leading houses at home and abroad, and may be seen in operation at the Fleet-street show-rooms. One of the introductions of the company is the "L and M" aluminium rotary press for litho printing from metal plates, a first-class, reliable, up-to-date machine, that produces the finest work, at a speed that is much in advance of what can be obtained on the fastest flat-bed litho press. The "Auto-plate," a machine for the rapid stereotyping of newspapers, is also made by the firm, and they supply everything in the way of machinery that can be needed by the printer. The "Photo-stone" process

4-line Pica. 48-pt. Jenson O.S. No. 1. 1/3 per lb.

Metals 21

3-line Pica. 36-pt. Jenson O.S. No. 1. 1/3 per lb.

Manchester 10

5-line Nonpareil. 30-pt. Jenson O.S. No. 1. 1/3 per lb.

Council presided £

2-line Pica. 24-pt. Jenson O.S. No. 1. 1/3 per lb.

Hard Metal Casting 10 THE STANDARD

3-line Nonpareil. 18-pt. Jenson O.S. No. 1. 1/3 per lb.

Council presided and said 568 THE STANDARD TYPE

Pica. 12-pt. Jenson O.S. No. 1. 1/6 per lb.

A very enjoyable Meeting was held at the Hotel Metropole, on Tuesday, August 12345 THE STANDARD

Long Primer. 10-pt. Jenson O.S. No. 1. 1/10 per lb.

A very enjoyable Meeting was held at the Hotel Metropole, on Tuesday, August 25th, £123456789 THE STANDARD TYPE FOUNDRY.

Brevier. 8-pt. Jenson O.S. No. 1. 2/3 per lb.

The Chairman of the Council presided and said that he considered the occasion of a distribution of prizes and certificates was a very good thing for the students and for the Institution besides creating an opportunity of reviewing the THE STANDARD TYPE FOUNDRY.

Nonpareil. 6-pt. Jenson O.S. No. 1. 3/3 per lb.

The Chairman said he was of a like opinion as also was many more who THE STANDARD TYPE FOUNDRY.

Stocked in 10-lb. founts and upwards.

Pica. 12-pt. O.S. No. 1. 1/- per lb.

SAMUEL JOHNSON was born at Litchfield, in Staffordshire, England, where his father was a bookseller. After five years' schooling in his native city, one at Stourbridge, and two years' loitering at home he entered Pembroke College, Oxford, and whilst here produced a Latin version of the Messiah

£1234567890

SKETCH OF DR. JOHNSON.

Long Primer. 10-pt. O.S. No. 1. 1/2 lb.

SAMUEL JOHNSON was born at Litchfield, in Staffordshire, England, where his father was a bookseller. After five years' schooling in his native city, one at Stourbridge, and two years' loitering at home he entered Pembroke College, Oxford, and whilst here produced a Latin version of the Messiah, which won the applause of the whole university, as also of its author, Pope. Forced by poverty to leave college without a degree, he was for a time

£1234567890

LIFE OF SAMUEL JOHNSON.

Brevier. 8-pt. O.S. No. 1. 1/4 per lb.

SAMUEL JOHNSON was born at Litchfield, in Staffordshire, England, where his father was a bookseller. After five years' schooling in his native city, one at Stourbridge, and two years' loitering at home he entered Pembroke College, Oxford, and whilst here produced a Latin Version of the Messiah, which won the applause of the whole university, as also of its author, Pope. Forced by poverty to leave college without a degree, he was for a time usher at a school at Market Bosworth, next lived at Birmingham, where he translated Lobo's Voyage to Abyssinia and having married a Mrs. Porter, a widow of forty-eight, who brought

£1234567890

SOME LITERARY CELEBRITIES.

Nonpareil. 6-pt. O.S. No. 1. 1/10 per lb.

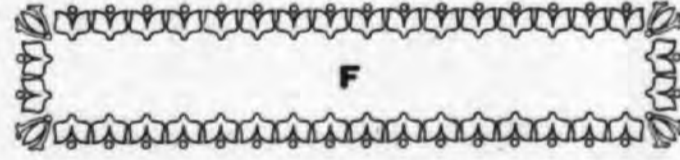
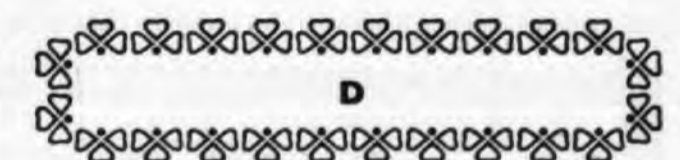
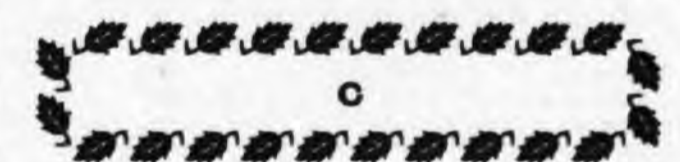
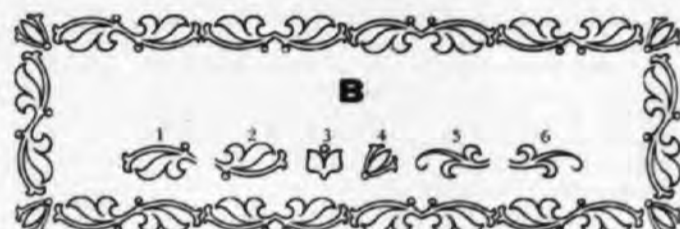
SAMUEL JOHNSON was born at Litchfield, in Staffordshire, Eng. land, where his father was a bookseller. After five years' schooling in his native city, one at Stourbridge, and two years' loitering at home, he entered Pembroke College, Oxford, and whilst here produced a Latin version of the Messiah, which won the applause of the whole university, as also of its author, Pope. Forced by poverty to leave college without a degree, he was for a time usher at a school at Market Bosworth, next lived at Birmingham, where he translated Lobo's Voyage to Abyssinia, and having married a Mrs. Porter, a widow of forty-eight, who brought him £800, started a boarding-school on his own account near Litchfield. The venture failed, and Johnson came to London, with David Garrick one of his pupils and an unfinished tragedy, Irene. Private patronage was dead, and the patronage of the public was only rising, and during the twenty-five years that Johnson led the life of a Grub Street hack he was always in straitened circumstances, like

£1234567890

STANDARD WORKS OF AUTHORS.

Veronique Borders

12-Point. 2/6 per lb.



18 Point. 2/- per lb.



3 lb. founts and upwards.

Telephone: 2426 HOLBORN.

A.B.C. CODE.

Telegrams: "STANOLINE, LONDON."

The STANDARD TYPE FOUNDRY, Ltd., 17, Gough Square, Fleet Street, LONDON, E.C.

"Victoria" Platen Presses

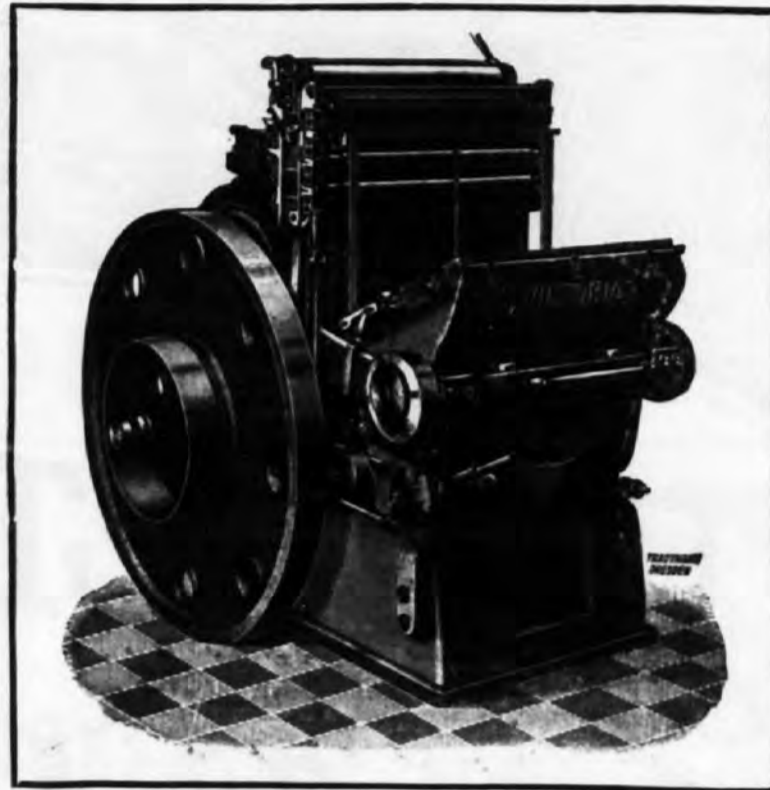
For PRINTING, EMBOSSING and CUTTING.

Sizes IV and VI, with improved Inking mechanism.
 Size V, with Patent Double Inking Apparatus. Perfect covering with ONE Inking.
 VI, Heavy Embossing Press with 2 Fly-wheels and Double Gear, improved Inking mechanism or double Inking Apparatus.

Latest Improvements.

Sizes IV, V, VI: No Cam on Main Gear. Movement of Inkers by tooth-wheel gearing (Patent). Throw-off of all Inking Rollers with one movement of a Lever (Patented). Frisket Fingers when laid on the Platen, stop in this position. No accident can occur if the Press be started with the Frisket Fingers laying on the Platen.

Every description of CAMEO DIES, also all MATERIAL FOR MAKING FOLDING BOXES supplied.



"Victoria" Special Model

with Friction-Clutch and continuously running Fly-wheel. Automatic Stop Motion after each impression. Hand Guard for immediately stopping Platen effectively protects the Minder's hands.

"VICTORIA" HOT EMBOSSING PRESSES without Inking Apparatus (for Gold Blocking, Foil, etc.), with slanting foundation and horizontal Platen.

Every description of CAMEO DIES, also all MATERIAL FOR MAKING FOLDING BOXES supplied.

"Victoria" Platen Press Manufacturing Co.

(ROCKSTROH & SCHNEIDER NACHF. A.G.),

DRESDEN-HEIDENAU (Germany).

Show-rooms at the
 SOLE AGENTS for the United Kingdom:

BERGER & WIRTH,

9, New Union Street, Moorfields, LONDON, E.C.

FREEMAN & FREEMAN

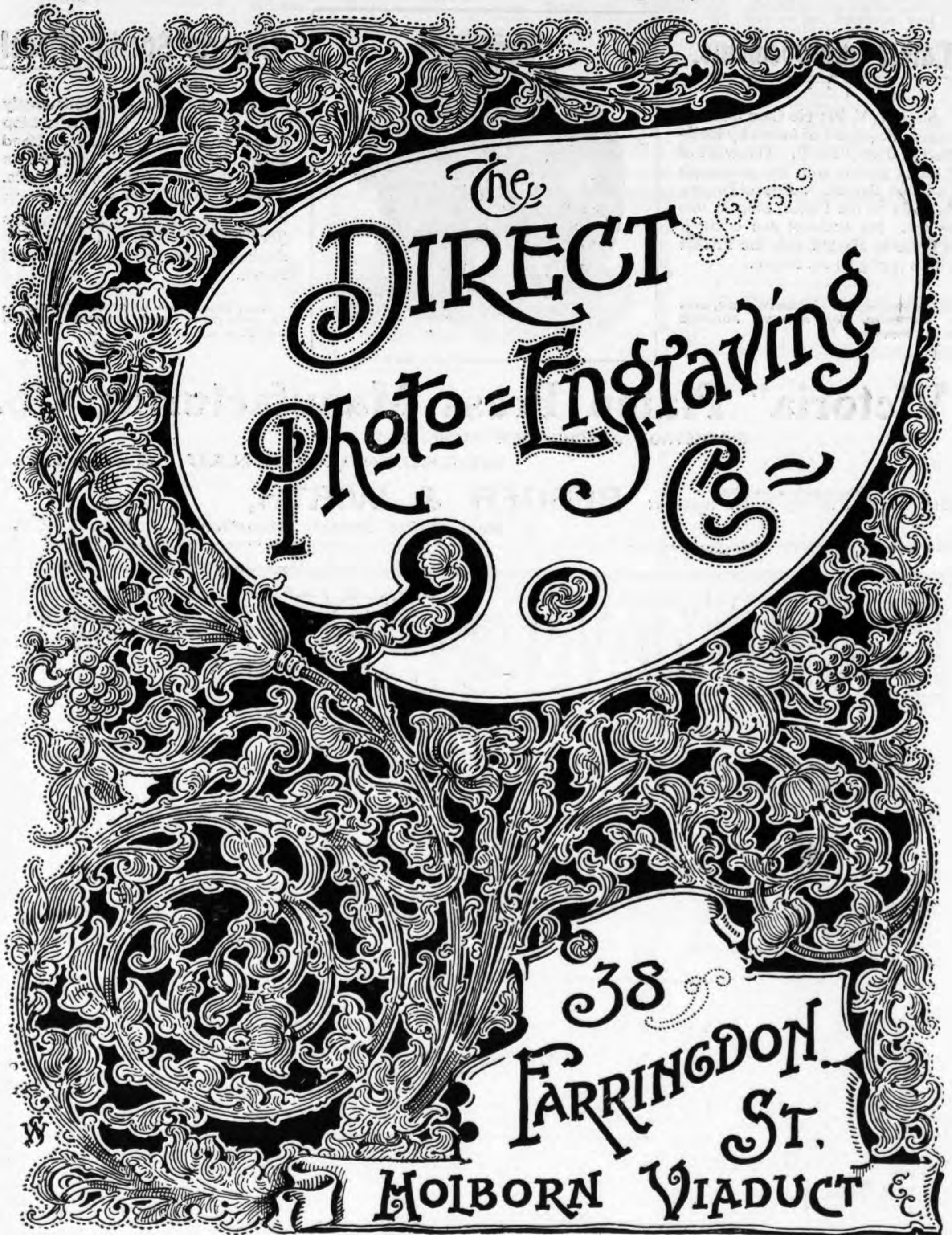
HIGH CLASS
PROCESS ENGRAVERS
 IN HALF-TONE AND LINE . . .

WOOD ENGRAVERS,
 DESIGNERS, ETC.

23, FARRINGDON AVENUE,
 LONDON, E.C.

ESTABLISHED 1881.

High-Class Etchers and Engravers, Artists and Designers.



Prices and Specimens on application to **The COMPANY.** Telephone: 1,086, Central.

F. E. S. PERRY and R. WILSON, Proprietors.

ARUNDEL & MARSHALL,

Penn St. Works, Hoxton, London, N.

MAKERS OF

BOXES

In Cardboard, Wood, & Paper.



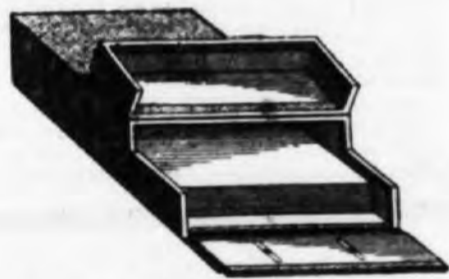
FOLDING BOXES



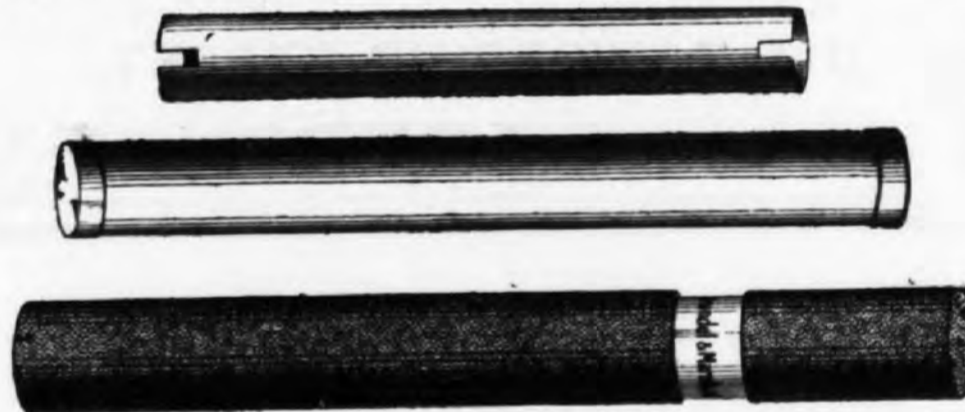
FOR



Chemists, Drapers, Confectioners. and all Trades.



STATIONERY STOCK BOXES.

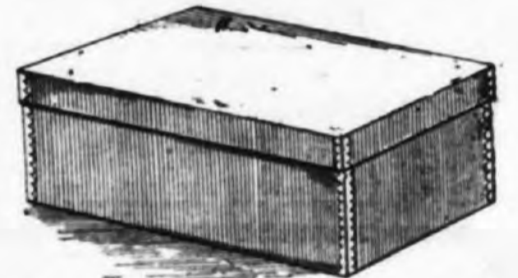


TUBES

FOR POSTING OR STORING PAPERS.

TUBES

FOR PHOTOGRAPHIC PAPER.



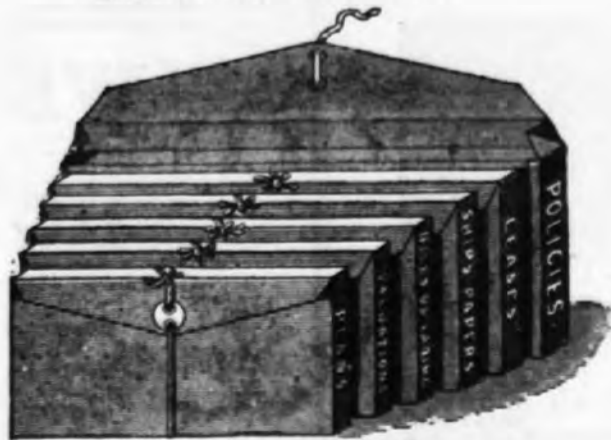
METAL EDGE BOXES.



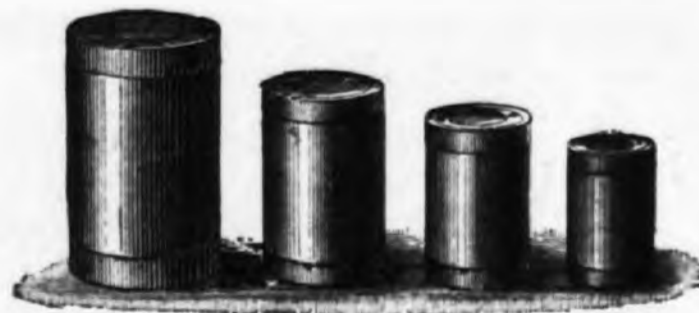
CABINETS.



PARCELS POST BOXES.



DOCUMENT ENVELOPES.



BARRELS

FOR DRY CHEMICALS AND GROCERIES.



DRAPERS' FIXTURE BOXES.

ARUNDEL & MARSHALL,

PENN STREET WORKS,

HOXTON, LONDON, N.

Telephone:—No. 27, DALSTON
Telegraphic Address:—
"ARCHWAY, LONDON."



THE SCANDINAVIAN SECTION
OF THE
World's A B C Paper Mill Guide,
CONTAINING PARTICULARS OF THE
PAPER & PULP MILLS in NORWAY, SWEDEN,
DENMARK, and FINLAND,
WITH
SUPPLEMENT,
PRICE FIVE SHILLINGS.

IN a convenient 8vo. form, the information given being compiled with the view of making the work a complete Directory of the Paper and Pulp Trades of Scandinavia. Full particulars are given of class of pulp or paper made, output, machinery and power used, nearest railway station, managers and owners, etc. The Supplement contains particulars of all the NEW PAPER AND PULP MILLS started in Scandinavia down to 1905. The Finnish portion, in particular, has been entirely re-written.

— PAPER DEALERS.
— PRINTERS.
— STATIONERS.
— PUBLISHERS, &c.

should note that the A B C Scandinavian Mill Guide is the fullest and most comprehensive work of the kind ever published.

MAP

The Directory is accompanied by a Large Scale Map showing the situation of the various mills, with numbers appended referring to the entries in the Guide, and also a numerical index to the names of the Mills whose position is denoted on the Map.

Price of Map separately (plain paper) ... 1s. 6d.
" Mounted on Linen ... 2s. 6d.
" Varnished, with Rollers and Tape... ... 5s. 0d.
Map (plain), Directory and Supplement together 6s. 0d.

Post Free to any address in the United Kingdom.
(Foreign postage extra).

PUBLISHED BY
W. JOHN STONHILL & Co., 58, SHOE LANE,
LONDON, E.C.

THE "DIAMOND" SERIES OF

BLANK XMAS CARDS

Manufactured by
DORENDORFF & Co.



A GOOD LINE FOR THE COLONIES.
All New and High-Class Designs
OF BRITISH MANUFACTURE ENTIRELY.

WRITE FOR SAMPLES.

Makers of Wedding Cards,
Menus and Ball Programmes,
In Memoriam Cards,
Christmas and New Year Cards,
and Fancy Cards of every Description.

DORENDORFF & Co.,

5 & 7, WORSHIP STREET,
LONDON, E.C.

W.C.&N.

WILLIAMS, CROWE & NICOLL.
ST MARK'S FOUNDRY,
16 BEAR ALLEY,
FARRINGTON ST. E.C.
OPPOSITE STONECUTTER STREET.

**ELECTROTYPERS,
STEREOTYPERS,
ZINC-CRAPHERS &
WOOD ENGRAVERS.**
TEL. 3848 CENTRAL.

Press Cutting
And
General Advertising
Agency.

WOOLGAR & ROBERTS,
58, Fleet Street, LONDON, E.C.

INFORMATION on any subject at
the lowest possible terms.

All orders executed by a thorough practical Staff. Editors are specially invited to give this Agency a trial. Terms on Application.

THE OLDEST TRADE PROTECTION OFFICE IN
THE UNITED KINGDOM.

ESTABLISHED 1776.

PERRY'S Trade Protection
Offices.

(W. R. PERRY, LTD.),
26 & 27, BUSH LANE, CANNON ST., LONDON.

Status Inquiries made as to the position and standing of
Traders and others.

PERRY'S GAZETTE & LIST OF CREDITORS
are published weekly, and are invaluable to every one in
business.

DEBTS RECOVERED & PAID OVER PROMPTLY

Particular attention is called to the fact that this is the
only TRADE PROTECTION SOCIETY that possesses at its
Offices in London Registers containing full Bankruptcy
and other Registered Information, together with Status
Information FOR THE WHOLE OF THE THREE KINGDOMS.

TERMS from £1 1s. upwards, according to requirements.
PROSPECTUS and further particulars on application to
the above Offices.

THE "LANCET,"

Writing of a Medical Work in which all the Blocks to the number of 124 sets
were done by the Arc Engraving Co., Ltd., by their Colour processes, says:

"The Microscopic Plates call for high praise."

"The Illustrations of the clinical appearances of the Skin
are highly to be commended."

**WE
CAN
DO
GOOD
WORK.**



**AND
WE
DO
GOOD
WORK.**

A well-known Artist

whom we had never seen before recently called on us to express
his complete satisfaction at some Half-Tone Work produced by us,
saying that after a large experience extending over many
years, he had never seen his drawings reproduced so well.

which introduces a great saving of time and labour into chromolitho work, and produces most artistic results, is also handled by Linotype and Machinery, Ltd., and a new system of coupling up Miehle Presses for colour work, called the "Tandem," has just been introduced, as well as an arrangement for transforming a letterpress machine into a litho machine at will.

M. P. Orsoni, 7, Rue Lemaignan, Paris, is the maker of a novel colour printing machine called the "Aquatype," which is capable of applying practically any number of colours to paper or cards of ordinary sizes, at the rate of from 600 to 1,000 per hour. The machine is claimed to be suitable for newspaper, ordinary printing, and post-card work, and some specimens we have of the latter (and which we shall be pleased to send to those interested) are excellent.

John Batcliff and Sons, Junction Foundry, Upper Wortley, Leeds.—Makers of the "Reliable" litho machine. From the very beginning of this house the partners made solidity a feature of their machine, knowing from experience the value of apparatus capable of bearing excessively heavy strains in certain classes of colour work. With solidity they have added high speed to their machines, which are constructed with an automatic damping apparatus and flyers. The machine has been used for embossing in oleographic work, which is ample testimony to its strength. The varnishing machines, and litho and copper-plate presses turned out by this firm, are well known in the trade, as are also their bronzers. They also construct collotype machines. In addition they make a strong colour grinding mill, a colour mixer, and also a litho stone grinder built upon novel principles.

Rockstroh and Schneider's Successors, Ltd., Dresden, Germany, are printing machine makers. They make the "Victoria" platen press, a well-made appliance that is solidly built, and fitted with a number of improvements that tend to good work, among which is a new method of actuating the rollers that entirely does away with the uncertainty of cams. Messrs. Berger and Wirth, 9, New Union-street, E.C., are the London agents for the firm.

J. G. Schelter and Giesecke, Leipzig, are the makers of the "Phoenix" platen press, a powerful machine that is made in several sizes, and the heavier grades of which are specially constructed for heavy process block printing, letterpress embossing, and gold blocking; the platen can be heated by either gas, steam, or electricity. These machines are also adapted for creasing and scoring cardboard boxes, for which purpose special cutters, creasers and scorers can be supplied. The British agents are Messrs. Wesselhoeft and Zimmermann, 34, New Bridge-street, London; 46, Houndsgate, Nottingham; and at Glasgow. Messrs. Middows Brothers, 73, Clarence-street, Sydney, are the sole agents for Australasia and New Zealand, and Messrs. John Dickinson and Co., Ltd., for Cape Town, Johannesburg, and Durban.

A. Seggie and Son, Broughton Market Works, Edinburgh.—This is one of the oldest firms in the trade (established over 50 years), and does a good business in well-known high-class machines, including "Special Art Extra Swift" letterpress cylinder machines, from demy-folio to mammoth sizes (running up to 3,500 per hour), and capable of doing the finest half-tone and three-colour work at a high speed, in some cases more than double the output of neighbouring

machines in the same establishment. They are extensive makers of ironing machines, their patent combined four operation bronzing, polishing, back-dusting, and dusting-off machines being in use in all the leading houses, and the firm are continually receiving repeat orders. These machines give a large output and produce finished work of the highest class. The patent varnishing and gumming machine made by the firm does its work perfectly, saves the varnish or gum, and gets cut the work rapidly. The latest order for this machine is from the Japanese Government. Their ink and paint mills have an equally good record, grinding the very hardest colours with ease. They have a complete line of cutters, including guillotines, label-cutting machines of two types, rotary and lever cardboard and millboard cutting machines. Other lines are Columbian presses, imposing tables, lithographic machines, litho and copperplate presses, overhead stone grinding and polishing machines, etc., many of which have found their way to the French market, in some cases being employed to grind stones as large as 57 by 55 inches. In fact Messrs. Seggie and Son are manufacturing machinery of a more advanced type than that commonly offered on the British market; in some cases the output of their machines is equal to two of the ordinary make, and all of them are good time savers. The number of different machines manufactured gives the firm a thorough practical knowledge of the requirements of the trade. They do a large trade in lithographic stones imported from the best Solnhofen quarries, and in all other printers' materials and sundries. A moon moth Power Embossing Press is also made.

The Victory Web Printing Machine Co., Ltd., Liverpool.—No newspaper machines are better known than the "Victory" class, and they are to be found in the offices of almost every newspaper of any importance throughout the world, where they give unfailing satisfaction. They are made in several styles, to suit particular requirements, and may be had in "Single Reel," "Tandem," "Straightline," or with "central delivery," with inserting, pasting, and folding attachments, and for delivering newspapers or periodicals of any number of pages. The new "Improved Patent Victory" is one of the most compact and accessible machines now in the market, and it has the advantage of taking up but little floor space; a single-reel machine occupying but 10 feet 6 inches by 8 feet, and double and triple machines 17 feet by 8 feet, and 23 feet by 8 feet, respectively. The height over all type cylinders does not exceed 4 feet from the floor level, and so no steps, or galleries, are required. One great advantage of the new model is that a single-reel machine may at any time be converted into a multiple web machine without stoppage or alterations, and in such a multiple machine each portion may be worked independently. The Company also manufacture the "New Improved Victory Periodical Machine" that prints, cuts, insets, folds and delivers periodicals of 4, 8, 12, 16, 20, and 24 pages. Other machines are made at the Company's works, and the various requirements of a newspaper office are fully catered for. The firm also manufacture a paper varnishing or sizing machine (Wilson and Brown's patent), invaluable for such work as photographic guide books, toy books, covers, calendars, wall sheets, labels for tinned goods and sundries. It is built in two sizes; No. 1, to take any size sheet up to 50 inches by 40 inches; and a second size, to work up to 23 by 38 inches.

Waite and Saville, Ltd., Falcon Works, Otley, make a number of special patented machines for printers and stationers. Their chief machine is the "Falcon" press, with gripper feed and self-delivery, numbers of which are running at 3,000 per hour, while their "Koh-i-noor Press" for printing envelopes, post-cards, etc., will give 4,000 impressions per hour. A new size of "Falcon" press has recently been put on the market fitted with detachable envelope feed. It prints sheets up to 10 by 6½ inches, and runs at 4,500 per hour. It is termed the "Express Falcon."

They also manufacture the successful "Waite Die Press," of which a very large number are now in use. Other machines made by them are the "Waite" and "Record" Reel Tag-making Machines, which turn out 11,000 complete printed tags per hour; the "Despatch" Label-making Machine for making the folded and eyeletted label; the "Peerless" Combined Punching and Eyeletting Machine, and the "Diamond" Self-Clamp Round-Cornering Machine. They also make the new "Waite" Reel Platen High-Speed Job Press which prints from flat forms, in one or two colours, at the rate of 6,000 to 7,000 per hour in one colour, 3,000 to 3,500 per hour in two colours, or, with the slitter at work, can do half-size sheets at double these figures. This is a press for which there is a wide field of work waiting, and printers who desire to move with the times should get particulars promptly. This firm has made very rapid progress, having twice doubled the size of their works within the last few years. The plant is of the most modern type, and the equipment of up-to-date labour-saving machines is probably not surpassed, if equalled, by that of any other firm in the country producing printers' machinery. They are sending a large number of machines to America, Germany and France.

GAS ENGINE MAKERS.

J. E. H. Andrews and Co., Ltd., Riddish, near Stockport.—Gas engines are the specialty of this well-known engineering firm, whose "Stockport" engine has been known and appreciated all over the world for many years past. Messrs. Andrews and Co. are now making their own Suction Gas Producing Plants, and are experiencing a great demand for them, the works being very busy both with the production of these appliances and of gas engines. Among some of the recent orders for gas engines and suction plants received are two engines and one suction plant of a total capacity of 120 horse power for Messrs. Ogston and Tennent, Ltd., Aberdeen, for dynamo driving. Two engines and two gas plants of a total capacity of 110 horse power for Messrs. A. Muirhead and Sons, Ltd., Glasgow. Two engines to be worked from one gas plant of about 70 horse power for Messrs. Baldwin, Son and Co., Stourport. An 80 horse power engine and suction plant for the Manchester Corporation. A 100 horse power engine and plant for The Crystal Ice Co., Salford; and a 90 horse power engine and plant for Messrs. Coates Bros. and Co., Ltd., London, in addition to a large number of engines and plants of similar size. The firm commenced the manufacture of gas engines as far back as 1878, and has been developing and perfecting them ever since. All sizes are made from 1½ to 300 h.p. One of the "Stockport" gas engines has been at work in our own office for twenty years, and has given us the greatest satisfaction. As we go to press we are informed that the firm has been incorporated with that of Messrs. Hornsby, of Granttham, another eminent gas engine house.

PAPER MANUFACTURERS. WHOLESALE STATIONERS, ETC.

Robert Bateson and Co, 127, Fenchurch-street, London, E.C.—This is a firm of papermakers' agents who stock every description of paper, and make a special feature of grades suitable for all classes of printed work. Their fine art and imitation art papers, white and coloured printings, cover papers, ivory boards, antiques, and magazine and poster papers are all of good quality, and are held in extensive variety. The firm also supplies news paper in all qualities for newspapers and periodicals, and having exceptional facilities at their disposal, are prepared to act as solely buying agents in this country for all classes of paper.

Berrick Brothers, 10, Creechurch-lane, London, E.C., and P.O. Box 276, Yokohama, Japan.—An old-established house of Japanese importers. The "Tycoon" copying paper, a thin, strong make of remarkable quality, is unexcelled for copying books, and their vellum papers are

excellent for letters or documents where durability is required. The firm also supplies crepe, diaper, and other fancy papers, serviettes, etc., and India proof papers.

W. V. Bowater and Sons, 159, Queen Victoria-street, London, E.C., make a specialty of fine and common "news" paper in reams or reels, and do an enormous trade in this particular line. The firm is also noted for its white and coloured printings, super-calendered, water-finished, and coated papers for magazine work, etc. Engine-sized writings, long elephants, glazed and unglazed browns, mill wrappers, small hands, and other grades are also handled.

Burnell, Hardy and Co. (E. A. Burnell and Harold H. Hardy), 77a, Queen Victoria-street, London, E.C.—One of the most enterprising firms of papermakers' agents and merchants in London for wholesale buyers and dealers. They represent a number of the largest Continental paper and board mills. Their collection of papers, etc., comprises improved reel news, white and coloured printings, glazed and unglazed wood-free printings, art papers and cover papers, writings, hand-made and machine-made, copyings, banks and blottings, envelope papers, purified imitation parchments and grease-proofs, sulphites, steel strength kraft, golden browns, and other strong packing papers, white, striped, and coloured tissues, enamel and bristol boards, photo-mounts, middles, and cardboards, "air-dried" strawboards, leatherboards, wood pulp boards, and box-boards. Samples and prices will be sent on application. The mills represented have an annual output of 50,000 tons. Some of the largest mills represented are:—The Ljusfors Aktiebolag, Hanoverian Paper Mills, Braunstein and Co., Adolph Fiegel, Carl Cesar, Hochstein and Weinberg, Aankoski Aktiebolag, Bertschy and Co., E. Holtzmann and Co., Cartonnerie de Presles, etc. The firm sells to wholesale buyers and dealers only.

Robert K. Burt, 4, Ludgate-circus, London, E.C., is a papermakers' agent and merchant, who is always prepared to supply news in reams and reels, printings, super-calendered, litho papers, writings, art, imitation art, browns, tissues, wrappings, and blotting papers.

G. & T. Carlyle, Ltd., 116, Duke-street, Liverpool.—This firm holds an honoured position as manufacturers of manifold, tracing, carbonic, and other papers for duplicating purposes, both bound in books and in single sheets. The manifold papers are of remarkably good quality and not to be excelled by any other English makes. "T.G.M." and "S.G.M." are well known to all business men who use manifold apparatus as the distinguishing trade marks of two of the best makes of manifold papers now on the market. Other special lines are the tracing papers, supplied in both thick and thin qualities. In carbonic papers again, this house do a very large trade, and fresh lines are constantly being introduced. One of the last is the blue-black paper, which gives a result almost exactly like that produced by ordinary ink; other stock tints are mauve, black, blue, etc. The "Oiled Royals," too (the oil sheets used in the copying press), made by Messrs. Carlyle are as good as any we have seen, and we have tested them in the only practical way, i.e., by using them ourselves. Some excellent hand-made qualities are now being supplied. Messrs. Carlyle also issue a most useful series of manifold books for every conceivable commercial purpose. We are informed, and can well believe, that all these books are popular and going lines, and sell well in Australia, New Zealand, Canada, &c. The same may be said of the papers, particularly the carbons and manifolds, they being specially made to keep good and unaffected in hot climates. The firm allow exceptionally good terms.

The Culter Mills Paper Co., Ltd., Aberdeen.—This mill is known not only for the dependable qualities of its fine printings, envelope papers, and writings, but for its capacity in turning out other high-

THE LIGHTNING LABEL FASTENER (Patent.)
 Attach the Label to the Parcel
IN AN INSTANT.
 SOLD BY ALL
 WINE and
 PRINTERS &
 STATIONERS.
 Wholesale only of the
DIAMOND TAG Co., Brompton, London, S.W.

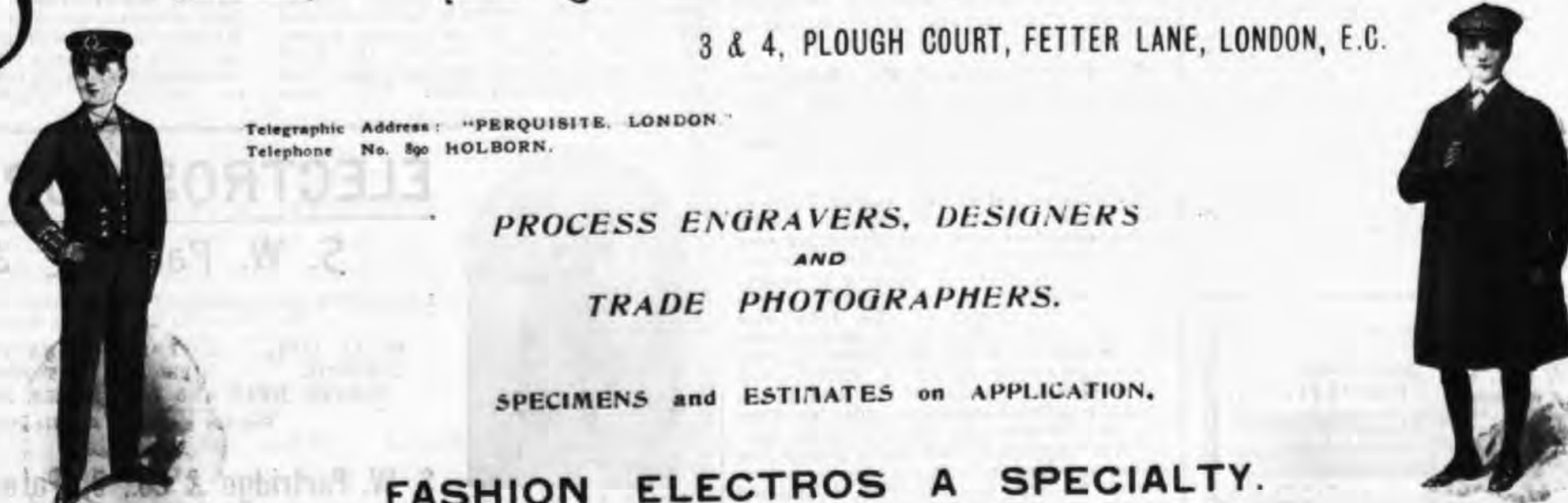
THE ART REPRODUCTION CO., LTD.,
 3 & 4, PLOUGH COURT, FETTER LANE, LONDON, E.C.

Telegraphic Address: "PERQUISITE, LONDON."
 Telephone No. 890 HOLBORN.

PROCESS ENGRAVERS, DESIGNERS
 AND
 TRADE PHOTOGRAPHERS.

SPECIMENS and ESTIMATES on APPLICATION.

FASHION ELECTROS A SPECIALTY.



grade specialties for papereries, and original makes in lined, fancy, and ribbed papers. Their imitation hand-made printings, with rough deckle edges, also have a large sale. The regularity of their makes of printings highly commends them for book work.

John Dickinson and Co., Ltd., 85, Old Bailey, London. Mills: Croxley, Apsey, Nash, and Home Park, Hertfordshire.—One of the most eminent firms of paper-makers and wholesale and export stationers in the United Kingdom. The principal of the many specialties of this very old-established firm are: superfine, fine, and every description of printing paper; map and chart papers (in which they have a new and cheaper quality) of exceptional strength; hand-made printings, glazed and rough, for *editions de luxe*, etc.; tinted writings, and coloured papers for pamphlet covers; brown and packing papers of every description; tub and engine sized writings; blotting and cartridges; envelopes; chromo-enamel papers, surface and enamel papers, boxed stationery, cards and cardboards, white and tinted. Messrs. John Dickinson and Co.'s "Art Paper" meets the most exacting requirements of the art printer. An important point with this firm is their dependability in the preservation or matching of shades of colour, so great a factor where good work is done. The registered "Court" mourning note has an increasing sale, and is a safe line to stock, and a very fine range of papeterie boxes is stocked, to which additions are continually being made. A new warehouse has been opened at 27, Upper Thames-street. The paper upon which this issue is printed was manufactured by this firm.

Dorendorf and Co., 5 and 7, Worship-street, Finsbury, London, E.C., are well known for their fine makes of ivory boards and cut cards, of which over forty qualities are kept in stock. Bevelled-edged cards, wedding cards, In Memoriam cards, Christmas and other greeting cards, ball programmes, Christmas card blanks for printers, fancy folding and cut-edged cards, and papereries of a high class are among their leading lines.

Fenner, Appleton and Co., 77, St. John-street, E.C.—Four-fifths of the business done by this firm is in the manufacture and supply of envelopes. They have one of the largest factories in London, and have been in the envelope trade since its commencement. They stock a very large variety of shapes, sizes, and qualities, and give special attention to indents. Their catalogue and book of sizes is a useful companion for the stationer's desk. This house also enjoys the confidence of the trade in an unusual degree in connection with the supply of blank books of every kind. They do an enormous trade in commercial account books, ledgers, cash books, counter books and manifold books (of which they have a wide series), this branch forming one of the most important of their extensive wholesale stationery manufacturing undertaking, and being strictly conducted on wholesale and export lines, they offer especial advantages in the matter of colonial indents.

The Globe Cardboard Co., Newton Mills, Hyde, manufacture boards, plain or coated, and from 4-sheet to 16-sheet. A large stock is held, of excellent quality, and prompt delivery is offered.

Geo. Hall, 97, Queen Victoria-street, London, E.C., is agent for a mill producing the finest qualities of linen and sulphite papers for writing and drawing purposes. We understand he can offer a remarkably good and cheap line of India paper.

Messrs. Samuel Jones and Co., 56, Carter-lane, London, E.C., are manufacturers of gummed papers, etc., a feature being that they can make them quite non-curling, a very important quality where printing has to be done, as every printer who has handled gummed paper knows. Prices and particulars may be had on application. The firm's factory is at Camberwell.

Ferdinand Levy, 57-58, Chancery-lane, London, W.C., is sole agent in the United Kingdom for some of the most important Belgian papermakers and one of the best Dutch mills. One of the specialties handled is the waxed tissue paper manufactured by Messrs. Verburgh Frères, of Brussels. These papers are waxed on both sides with the purest wax. This enables them to be used without any danger for wrapping any kind of foodstuffs, chemical produce, or tobacco. The special parchment brown made by Ducobu-Voituron, of Thulin, is considered an exceptional quality. The bulk of this is used in our colonies, and to all exporters the value of it is well known. The Dutch mill, W. Sanders Tzn, of Renkum, is best known by their M.G. poster papers and fine art printings, which have acquired the reputation for giving the best results respectively for litho and half-tone work. The flint, enamel and surface papers from Messrs. A. Cappelle Pere et Fils, Menin, are well known, one of their mills having

for some years worked exclusively for the English market, turning out about 30 tons a week.

Millington and Sons, London.—One of the most respected names in the wholesale and manufacturing stationery trade of to-day, doing business in every quarter of the globe, and possessing first-rate connections, home and colonial.

J. and W. Mitchell, Bordesley Paper Works, Birmingham, and 5, Bridewell-place, London, E.C., make a specialty of tin foil papers, gold foil papers, and chromo papers. Pasteboards and mounting boards are given special attention to by this firm. Message and printers' (both white and tinted) ivory, visiting, gold deckled and bevelled edged (in fancy and folding shapes), and playing cards, in all qualities are made.

D. and S. Ockleston, Mill Bank Paper Mills, near Manchester.—This firm has had a career of over 150 years, and its makes are well known for their good qualities. A special feature is made of what are termed "Kraft" papers, which are produced in brown, blue, buff, golden brown, and other colours, and are appreciated for their texture and strength, which fit them for all kinds of wrapping and other purposes as well as for printing.

Pirie, Wyatt and Co., Ltd., St. Cuthbert's Paper Works, Wells, Somerset, England (Mill No. 364).—This firm is noted for the fine qualities of its papers. The makes are varied, and comprise T. S. and E. S. creams, azures, vellums, and antiques; blues, Silurians, banks, plate papers, account book papers, cheque papers and other makes, including metallic papers, cartridges and drawings, tinted pulp boards, fine printings, and linen-finished papers. The London offices are at 20-21, Queenhithe, E.C.

R. Robinson and Co., Ltd., Newcastle.—This is a very old-established firm of wholesale stationers and paper dealers, letterpress and litho printers, paper bag makers, etc. Practically every description of work connected with printing, stationery, and bookbinding is undertaken by them. Their plant is of a most extensive and comprehensive character, and is constantly being added to. Firms entrusting their orders to Messrs. Robinson may feel assured that they will be carried out in first-class style.

A. W. Somers and Co., Papermakers' Agents, 90, Cannon-street, London, E.C.—This firm has recently been established at the above address as papermakers' agents, the principals being Mr. A. W. Somers and Mr. E. F. Overbury. They represent several of the largest continental mills, amongst which are such well-known firms as Mr. Carl Rudolf Bergmann, of Berlin, envelope manufacturer; the Freiburger Papierfabrik, Weissenborn, makers of high-class ivory boards; Mr. Elsas, jun., of Barmen, chromo paper and board manufacturer, and several other important mills. Mr. Bergmann, whose envelopes are so well known in Germany, is now placing his goods through this firm upon the British market at prices which we believe have never been offered before. The firm is also well prepared to cater for the export trade.

St. Neot's Paper Mill Co., Ltd., St. Neot's, Hunts.—This well-known mill is famous for the high qualities of its writings, in air-dried vellums, woves, and laids, which are made in an extensive series of qualities and weights. They also manufacture sensitive and double sensitive safety cheque papers, and have introduced a new make to their account book papers in the "Accountant's Safety Ledger," a high-class paper of cloth-like texture that will not erase. It is stocked in all the usual weights and sizes, and is meeting with much appreciation.

Strong, Hanbury and Co., Ltd., 196-7, Upper Thames-street, E.C., are considerable exporters of news, printings, coloured papers, browns, casings, tissues, writings, and blottings. They control immense stocks, and are in complete touch with all home and continental mills. To facilitate quick trading they stock very largely at their London warehouse, averaging some 2,000 tons of various makes. This firm are contractors to H. M. Stationery Office, and to several Government and County Council printers and contractors. Their extensive "Colindia" series of papers and cardboards should be specially noted, as well as the "Absorbia" blottings and the "Unsurpast" lines of cheap vellum cards.

R. T. Tanner and Co., Salisbury-square, Fleet-street, London, E.C.—The wholesale stationery business has for many years been at the fingers' ends of the house of R. T. Tanner and Co., the late founder of the firm having been practically versed for a long period in the inside ways of the paper trade. Conversant with every detail of both manufacturing and wholesale stationery, and indirect contact with makers of every variety of paper, he established a substantial business in the heart of the City and formed connections of a most extensive character, which have been steadily developed by his successors, until to-day there is no requirement of the paper trade that this house cannot fill. The firm is noted for fine printings for books, &c., and for cream laid and wove papers, for either printing or writing. Super-calendered friction glazed, and enamelled papers for high-class art printing are a

feature of the firm's business, while they also carry a large and varied stock of coloured and tinted papers, cheap news, and special set-off paper.

Joseph Town and Sons, 81 to 85, Albion-street, Leeds.—A firm of papermakers and wholesale and export stationers. Tub-sized and air-dried writings, account book papers, vellums, and banks, in all weights and qualities, are held in stock. The mill number, 244, and the various watermarks of the firm are favourably known in the trade.

PRINTERS' and STATIONERS' APPLIANCES, &c.

The Bates Manufacturing Company, U.S.A.—European Agent: Samuel Insull, senior, 34, Queen-street, Cheapside, London, E.C.—The Bates Manufacturing Co. are the inventors and makers of special automatic hand-numbering, line-dating, and other machines. The special feature of the "Bates" hand-numbering machine is that every figure disc changes automatically in its consecutive order, from 1 to the full numerical capacity of the machine—a feature of the greatest importance. It also duplicates and repeats. This is easily effected by the mere moving of the small handle of the pointer in front of the dial plate. It is almost perfectly noiseless in its operation. The "Bates" line dating machine is similar in appearance to the numbering machine, and is fitted to a gauge to enable the user to place the date exactly upon a line. These machines are beautifully made and wonderfully accurate. The figures and all wearing parts are made of steel, and are interchangeable to the smallest screw. The Bates Manufacturing Company also manufacture the "Edison" Hand Numbering Machine. It is of lighter make, and meets the demand for a cheap yet high-grade machine. It is "a most unique machine at small cost." It has Mr. T. A. Edison's trade mark on the front, he being the inventor of this new machine. The "Midget" Weiler is the latest addition to Mr. Insull's specialties.

The Canadian American Machinery Co., 8, Bouverie-street, London, E.C., is owned and controlled by the Canadian American Linotype Corporation, Ltd., of Toronto, Canada. Through the parent company they are very favourably placed for buying in the best market and acquiring up-to-date American machinery. The latest agencies placed in this firm's hands are the "Semple" Book Trimmer, the Kramer Web Automatic Roll Feed for platen presses, cutting off in sheets or rewinding after printing for backing, slitting, perforating or collating as desired, the Twentieth Century Model "Eclipse" News and Jobbing Folder (the manufacturers of which claim to furnish 75 per cent. of all the folders sold in America, and have made arrangements whereby their high grade folders with pasting and trimming attachments can be supplied in Europe at a low price). The Langston box-makers' specialties, Remington bag-making machines, Swift and Denny Tag-making machines, Ticket Printing and Envelope-making machinery. As in many trades there is a growing predilection for damp-proof round paper boxes over tins and canisters this is being catered for by the company in Round Paper Tube and Box-making machinery for building up the tube either from the sheet or for turning out spirally wound two or three ply tubes at 15,000 running feet per working day, paraffined and damp-proof. Improved Tube Cutting Machines and Paper Cover Presses (the latter for producing caps for round paper boxes, automatically fed at 100,000 per day) completes a plant of exceptional interest. They are also manufacturers at their works in Montreal of the Canadian American Linotype, of which some hundreds are now working in South Africa, South America, Australia, and New Zealand. The firm has been appointed sole agents for the celebrated "Cottrell" printing presses.

Chanee and Bland, "Journal" and "Citizen" Office, Gloucester.—A new method of printing half-tone blocks on rotary machines has been patented by this firm. It is specially adapted for newspaper work, and enables portraits, views, etc., to be well printed in ordinary newspaper work, without the use of any special or expensive appliances.

The Dalziel Foundry, Ltd., 2a, Plough-court, Fetter-lane, London, E.C.—For successfully mounting stereo plates for book and other work, Dalziel's Patent Twin-Clamp Stereo Blocks have now been before the trade for very many years, and have invariably secured the good opinion of master printers, managers, and journeymen printers alike. They have

special advantages for illustrated publications, as well as for book and jobbing printing, are easily and quickly manipulated, and securely clamp the plates, while allowing plenty of margin for variations in size of pages. There is no yielding under the pressure of the cylinder, and so a firm, solid impression is secured by their use.

Robt. D. Delittle, Promenade-road, York, is a maker of a superior class of wood letter for printers that has met with much approval from the trade. His works have recently been enlarged, and he is in a position to execute home and colonial orders promptly.

George Dixon, Nottingham, is a printers' engineer, who solicits enquiries for all classes of machines and plant, new and second-hand, on sale or hire. His current lists contain particulars of special bargains.

Messrs. Duncan and Co., 28, St. Mary-street, Edinburgh.—A firm of printers and bookbinders' engineers and furnishers that can supply everything wanted by the most exacting customer. They have put on the market a special preparation called "Paraloid," a liquid that is used with the best results for preventing "set-off." It is used in many of the leading London establishments, doubling the output, and greatly improving the quality of the work. It allows all classes of super-calendered and coated papers, with half-tone illustrations, being printed on perfecting machines with excellent results. The firm is making arrangements whereby printers will be able to use "Paraloid" on considerably reduced terms.

Harry Franks (Mr. A. G. Mitchell), 70, Pitt-street, Sydney, N.S.W., represents a number of first-class British firms in Australia, and is able to supply anything in the way of machinery, material, or paper on the best terms. Responsible houses seeking export representation should communicate.

F. W. Fuetterer, Nurnberg, Germany, has many specialties for printers, among them being a mechanical locking-up apparatus for forms; the "Triumph" plates for making tint blocks or cutting letters or ornaments, and "Fuetterin," a type-wash that is perfectly free from acids and fats, is inodorous and incombustible. Mr. Fuetterer also supplies galleys, composing sticks, chases, and all the miscellaneous articles required in the printing office. London agents: Shanks and Derlitzki, 80, Wiesbaden-road, N.

K. Gebler, Machine Works, Leipzig-Plagwitz, Germany, makes a special feature of the construction of wire stitching machines of all kinds, and holds stock of cardboard bending machines, rivetting machines, punching and eyeletting machines, and complete plants for the manufacture of cardboard boxes. Folding machines for newspaper and book work are also made by Mr. Gebler, who will be pleased to send particulars of any or all of his productions on application.

John Greig & Sons, Fountain House Works, Edinburgh.—This old established and well-known firm supplies nearly every kind of machine for the printing, bookbinding, lithographic, and stationery trades. They have gained the highest reputation for litho and copperplate presses, ink grinding mills, rolling and glazing machines, guillotines, label punching and envelope punching machines, bookbinders' machines and presses, hydraulic machines, paging, perforating, embossing, relief stamping and box makers' appliances, and glazing machines for photographers.

Hampson, Bettridge & Co., London.—A firm of printers and bookbinders' machine makers who hold a large stock of perforating, cutting, stamping and other appliances. Their Index Cutting Machine is worked by treadle, and is entirely automatic in its action, accurate and simple in construction, and easy to work; it makes a great saving in time as compared with the old methods, and can be used for all classes of index work.

Hewitt Bros., Acme Works, Field-street, King's Cross, W.C.—A firm of printers' engineers and valuers well known in the trade. They undertake repairs and removals, and are contractors to H. M. Home and Colonial Governments.

The Hobbs M'fg. Co., 21-27, Hatfield-street, Goswell-road, E.C.—This company makes a specialty of American Box Machinery, and are prepared to equip a factory with machinery which is guaranteed to reduce the cost of labour and material to a minimum. Their well-known and

ELECTROS FOR SALE.

S. W. Partridge & Co.

Large and first-rate selection of Pictures suitable for Magazines, Books, &c., comprising the following Subjects:—

SOCIAL LIFE, JUVENILE, NATURAL HISTORY, DOMESTIC, BIBLICAL, TOPOGRAPHICAL, CORNER, HEAD AND TAIL PIECES, BORDERS, &c.

Proofs sent on Application.

Address:—

S. W. Partridge & Co., 9, Paternoster Row, LONDON, E.C.



PRICE OF ELECTRO, No. 70, 84c, 3/-



Blades, East & Blades, PROTECTIVE . . . CHEQUE PRINTERS,



Are prepared to execute Trade orders for quantities by their **CHEMICAL DOUBLE-PROTECTIVE PROCESS.**
 These Cheques are protected against forgery by the "BLADES" Special Process and Water-colour Ink. Only the Best Work. Any Colour, including Black. ESTIMATES SENT ON APPLICATION.
 Printing Works: **LEONARD STREET, and 23, Abchurch Lane, Lombard Street, E.C.**
TABERNACLE STREET, FINSBURY, E.C.

TISSUE PAPERS In Sheets and Reels. White, Black, or Coloured.

"JEDDO" Patterned TISSUES (IMITATION JAPANESE.) SPECIALITE for Serviettes, Packing, and Advertising Purposes. Special Designs to Order.

COPYING PAPERS—White & Buff.

Samples and Prices on application. Packed for Export and delivered F.O.B.
ADOLPH FIEGEL PAPER MILLS, BERLIN. (8 Machines).
 Mills: **TAUBENHEIM and COPITZ, near DRESDEN.**
 SOLE AGENTS for U.K. and Export:

E. A. BURNELL & CO.,

77a, QUEEN VICTORIA STREET, LONDON, E.C.

A Profitable and Quick Selling Line.

THE STRONGEST CEMENT IN THE WORLD FOR REPAIRING EVERYTHING.



REQUIRES NO PREPARATION, CLEAN TO USE, QUITE TRANSPARENT AND FREE FROM OFFENSIVE SMELL.

1/2 LENGTH OF 2^D TUBE. Attractive Advertising Matter Supplied Gratis.

Full Particulars and Terms from:-

MENDINE MANUFACTURING COMPANY,

169, TOOLEY STREET, LONDON, S.E.

WHAT THE PRESSGANG DID IN NELSON'S TIME
 WHAT THE PRESSGANG DOES AT THE PRESENT TIME

ADVERTISING AGENCIES
 PRINTERS
 PUBLISHERS

NOTE THIS

THE PRESS-ETCHING CO

ARE PREPARED TO PLACE AT YOUR DISPOSAL THE MOST EFFICIENT SERVICE PROCURABLE

FOR THE PRODUCTION OF

HALF-TONE LINE & THREE COLOUR BLOCKS

DESIGNS & DUPLICATES

YOU CAN PRESS THEM INTO YOUR SERVICE BY APPLYING TO 12 WINE OFFICE COURT FLEET ST. E.C.

FOR SPECIMENS & PRICES

AS NELSON SERVED HIS COUNTRY A CENTURY SINCE - SO THE PRESS-ETCHING CO. CAN SERVE YOU NOW - PROMPTLY

SMYTH - HORNE, LTD.

Over 2,600 SMYTH MACHINES in daily use.



No. 3 Smyth Book Sewing Machine.

Smyth No. 3

Book Sewing Machine

Equipped with 4 Feed Arms.

SEWING

Novels, School Books, Directories, Music Books, Magazines, Diaries, Catalogues, Bibles, Prayer and Hymn Books, Etc., etc.

15-20,000 Sections per Day.

Many leading Binders have rows of these Machines in use.



No. 4, 5 & 6 Smyth Book Sewing Machine.

Smyth No. 4, 5 and 6

Book Sewers

For Plain or French Sewing, Sewing over Tapes or Webbing or raised or sunken Cords.

SEWING

Account Books, Ledgers, Day Books, Cash Books, Journals, Letter Co Books, Guard Books, Albums, Catalogues, and General Letterpress Work, etc.

Suitable for Jobbing, Miscellaneous Stationery Sewing.

Doing the Work of from 5 to 10 Women Sewers.



No. 1 Smyth Case Machine.

Smyth Case - Making Machine

IN TWO SIZES, Nos. 1 and 2.

Output 8-12 Cases per minute.

Product superior to Hand-Made Cases, being more uniform, cleaner, free from lumps, brush hairs and delivered flat.

Cases made of cloth or paper using plain or bevelled boards.



Smyth Casing-in Machine.

Smyth Casing - In OR Pasting-Down Machine

Latest Product of The SMYTH MFG. CO.,

Books are fed to Machine by Boy and become pasted. The Cases are automatically taken from a pile, and the Books are firmly put into Case, properly positioned, etc.

Product Superior to Hand Work.

Operating at 15 per minute.

MANY ORDERS BOOKED.

Smyth Sheet Gluing, Pasting or Gunning Machine.

Smyth Cloth Cutting Machine

Smyth No. 7 Book Sewing Machine.

Write for Special Illustrated Circular of any of the above Machines.

Those interested are cordially invited to visit us and inspect the Smyth Machines we have in our Showrooms.

SMYTH - HORNE, LTD.,

19, CURSITOR STREET,

CHANCERY LANE,

LONDON, E.C.

TELEGRAMS: "SMYTHORNE, LON DON."

NATIONAL TELEPHONE: 2,215, HOLBORN.

FERDINAND LEVY,

Paper Agent and Merchant.

WAXED TISSUES. WAXED TISSUES.

Guaranteed Waxed both sides with Pure Wax.

PRINTING PAPERS, White and Coloured, Glazed and Unglazed.

FLINTS, ENAMELS, SURFACE PAPERS.

PARCHMENT BROWN, for Export Packing, etc.

M.G. POSTER PAPERS, FINE ART PRINTING.

CHEAP BLOTTINGS.

Samples and prices on application. Enquiries by post receive personal and prompt attention.

57 & 58, CHANCERY LANE, LONDON, W.C.

Telephone No. 12,739 Central.

highly appreciated Duplex Cutting and Scoring Machine is one of the greatest labour-saving machines ever introduced in this country for box-making purposes. A full line of cardboard box-making machinery is to be seen in operation at their extensive show-rooms, as well as their recent productions in machines for envelope folding and bag-making, and their latest novelty, an Automatic Printing Press (known as "The Philadelphia"), which prints at the rate of 8,000 per hour. This press prints envelopes flat, before folding, and is also suitable for general job work, letter and billheads, etc. Other American labour-saving machines for manufacturing stationers and bookbinders are constantly on exhibition. A new adjustable labour-saving gauge attachment for perforating machines is a great advance on former appliances. The firm has a varnishing machine of exceptional merit and high speed, and the guillotines, printing presses, and other appliances of the Challenge Machinery Company, of Grand Haven, Mich., U.S.A., are also handled.

Hoke Engraving Plate Co., 62 and 64, Ludgate-Hill, E.C.—This well-known firm of chalk engraving plate manufacturers offer a simple, cheap, and reliable process for producing line engravings. Their regular customers include many of the largest newspapers in England and America. It is said that blocks for printing several solid colours can be produced more quickly and cheaply than by any other method, and that the register is perfect. The sample blocks used in their advertisement are worthy of attention, particularly the cartoon block, which demonstrates the excellent effects which can be produced on Crown Engraving Plates. The original engraved plate, together with the stereotype made from it, was sent to us for our inspection. There are no signs of routing or hand work whatever on the block, the composition of the chalk plate producing more relief than is usually necessary on even a rotary press, the relief between the fine lines being very great.

Hunters Limited, 26-29, Poppin's-court, London, E.C.—This firm has extensive show-rooms, in which may be seen letterpress and lithographic machines of the best construction, together with appliances and machines for process workers, manufacturing stationers, bookbinders, and others of the allied trades. The firm are the British agents of Messrs. Klimsch and Co., of Frankfurt-on-Main, whose machines and appliances are well known; they also represent Messrs. Koenig and Bauer, of Kloster Oberzell, the eminent makers of printing machines; Messrs. Schmiere, Werner and Stein, makers of litho, tinplate, and colotype machines, who are equally well known in this country; and Mr. Hogenforst, of Leipzig, who is a large maker of what may be termed the smaller class of printing machinery.

The Imperial Printers' Furnishing Co., Sydney: 74a, Pitt-street; Brisbane: 143-5, Charlotte-street; Melbourne: 14, McKillop-street; London: 2, Gresham-buildings, Basinghall-street, E.C.—This is a firm of printers' brokers and machinery merchants which does an extensive trade in the Australasian Colonies, and supplies the latest and best of everything. They are agents for Australia for the goods of H. W. Caslon and Co., Chandler and Price, the Harris Press, the Lanston Monotype, and other up-to-date machines. The London office is the buying centre for this country, and manufacturers should send their price lists and catalogues there.

Samuel Insull, senior, 34, Queen-street, Cheapside, London, E.C.—Here can be obtained hand-perforating stamps of every description for banks, trust companies, corporations, and railway companies. The "Chicago Check" Perforator is a compact, light, durable, rapid, and effective machine, handsomely finished, and with the most perfect automatic paper-feeding mechanism. It is operated with one hand, and perforates any part of the cheque. Thirty thousand of these machines are in use in the United States, Canada, and elsewhere; it is now recognised as the standard device of its kind, and is very cheap. Mr. Insull has placed on the market several new machines for dating and impressing useful words on account bills and letters; also yardage measuring machines for textiles, etc.

The International Sprinkler Co., Ltd., 110, Cannon-street, London, E.C., are manufacturers of and contractors for the "International"—"Evans" Patent Automatic Sprinkler Devices and Systems for the prevention of fire in factories, warehouses, and other buildings. They also handle "Evans" Patent Ventilators, and supply bronze and anti-friction metals.

Kampe and Co., 2, Sandland-street, Red Lion-street, High Holborn, London, W.C., have removed from their old premises at 78, High Holborn (owing to rebuilding operations), and have an extensive show of machinery on view in their new place. They are specialists in and supply all kinds of machinery and presses for printers, bookbinders, box-makers, gold blockers, papermakers, manufacturing stationers, etc., and are sole agents for the well-known firm of Karl Krause, Leipzig, and other first-class continental houses. The leading lines include gold blocking, embossing and inking presses, index cutting machine for power, combined rotary cutting and scoring machines, calendars, guillotines, dead square, three and four-sided cutting machines, millboard and cardboard cutters, backing and back making machines, corner rounding machines, copperplate presses, complete plant for the production of every style of box, wire and thread sewing and stitching machines, etc. Some interesting particulars of the firm's goods appear in the first article in this issue.

Joseph Kaye and Sons, Ltd., Lock Works, Leeds. London Offices: 93, High Holborn, E.C.—This well-known firm holds a high position in the lock and door-furnishing trade. Patent locks, bolts, latches, and handles for every kind of door, desk, or drawer, is included in their catalogue, while railway door fittings are made a specialty. The firm's "Patent Steel Seamless Oil-can," which has also a seamless spout and a new patent thumb button, is in great favour wherever machinery is used. These oil cans have been supplied to the Navy, the War Department, Home Office, Indian State Railways, and other Government Departments.

Karl Krause, Leipzig, is a name that is known to users of printing, bookbinding, and kindred machinery all over the world. 5,000 machines are turned out annually. Paper cutters are a specialty, and some exceptionally large and strong embossing, and gilding machines are manufactured. The 50,000th machine made at these works was lately completed. The firm employs over 1,200 workmen and 200 clerks. London agents: Kampe and Co., 2, Sandland-street, Red Lion-street, High Holborn, W.C.

August Kraushaar, Hanau a/M., Germany, supplies a cylinder dust bellows for use by printers, typefounders, electrical engineers, and others. These bellows have no metal mountings, the nozzle as well as the body being of wood. They are very light, and are most useful for blowing type cases, etc. In London it may be obtained from Fredk. Ullmer, Ltd., Cross-street, Farringdon-road, E.C., and some others.

The Lanston Monotype Corporation, Ltd., 43, Fetter-lane, London, E.C. Works at Horley.—This firm is introducing to the printing trade of Great Britain the Monotype Composing Machine, an apparatus that casts and sets up the types entirely automatically from reels of perforated paper prepared on specially constructed keyboards. The types are cast singly, and placed on galleys in their proper order, and the type can, when printed from, be used again in the ordinary manner, or thrown into the melting pot and recast, which is the most economical method. A full description of the Monotype Machine appeared in our issue of March 28th, 1901.

Lennings and Husing, Ltd., 149, Aldersgate-street, London, E.C.—A firm of general dealers in all articles required by the various branches of the graphic arts. They supply all classes of printing machinery, inks, roller compositions, and litho stones. In fact everything for the letterpress, litho, colotype, or tinplate printer, as well as for bookbinders, mill and cardboard makers, and others. Glazed, chromo, and transfer papers are also handled.

Linotype and Machinery, Limited, 189, Fleet-street, London, E.C.—Makers of the Linotype typesetting and casting machine, that is in use in all the largest newspaper offices in this country and America, and in a very large number of Continental offices. It is not alone in the large offices that the Linotype is used—all over the kingdom it is found, and is as serviceable to the printer who can only employ one machine as to the firm that can instal a whole battery, whether for news, book, or jobbing. Many improvements have recently been made, and quite a choice of faces may be set on the same machine. The Company supplies a perfect quality of metal for use with their machines, that does not clog, and gives clear, sharp casts from the

matrices. The Company's extensive works at Broadbeath are fitted up in a magnificent manner with the finest machine tools.

The London Paste Co., Arlington-street Works, New North-road, London, N.—This firm is noted for a capital make of preserved paste for printers and stationers, that keeps well and has good adherent qualities.

Lotz, Abbott and Co., Ltd., 66, Queen-street, Cannon-street, London, E.C., provide all kinds of machinery for printers, bookbinders, and cardboard box makers, together with all necessary materials, including wire in coils or on spools, wire staples, suspending rings, pin tickets, etc. They have an excellent range of wire stitching machines, and their "Samson" platen printing machine is specially designed for half-tone, three-colour, and artistic printing.

G. H. Maddin and Co., Ltd., 10-11, Middle-street, Long-lane, London, E.C., are the sole agents for the "Emperor" relief stamping press (Savory's patent). The presses and specimens of the work they can do may be seen at the firm's show-rooms at the above address.

Thos. Mason, 5, Docwra-buildings, King Henry's Walk, Ball's Pond, N., manufactures printers' leads which are known in the trade for their accuracy and quality of metal. Any length or thickness can be supplied. Mr. Mason has just introduced a new stereo mounting catch that can be used for all kinds of plates, and will hold them firmly while on the machine.

The Nolliston Co., Ltd., Dashwood House, London, E.C., and at Frankfurt a/M, Germany.—The "Nolliston" plates supplied by this firm are reliable substitutes for the lithographic stone, and may be used for every class of work, on either flat-bed or rotary machines. The Nolliston "Typo" plates are also supplied in five different grains for photo-engraving, and ordinary zinc plates, as well as all kinds of lithographic supplies are stocked.

William Notting, Bowling Green-lane, Farringdon-road, E.C.—This firm are the most prominent makers of Albion, Columbian, and Alexandra presses, of which they have supplied from 500 to 600 to various offices during the last few years. They also make the numerous smaller classes of appliances necessary for the printing office—punching and cutting machines, perforators, paging machines, galley presses, and every class of printers' joinery, and took highest award at Sydney in 1880 for their exhibits, and do an increasing wholesale and export trade, rarely if ever losing an account when once opened. A feature of the business is the manufacture of machine-made brass rule; the illustrated specimen books indicate the economy and variety of combinations in rulework for job printing.

A. J. Parker, 5, Maolean's-buildings, New-street-square, London, E.C.—A specialty of Mr. Parker's that should interest and benefit printers is his new mounting boards for mounting stereos or electros for the machine. They are made from well-seasoned wood, and are built up from strips of wood which are put together with the grain running in different directions so that they cannot twist or warp when in use, and are non-sensitive to damp and changes of weather. All ordinary sizes are kept in stock and specials are made to order.

A. Partridge and Co., Ltd., Wellington-street, Stockport, are manufacturers of the "Champion" paging and "Eureka" perforating machines, to work by foot or power. They also hold a large selection of second-hand machines for printers, bookbinders, and manufacturing stationers.

Joseph Richmond and Co., Limited, Kirby-street, London, E.C.—This firm is noted for first-class machinery for bookbinders, stationers and envelope makers, and the trade generally. They have many special machines that are of the utmost advantage to users, and a perusal of their lists will repay an intending purchaser. They also make every description of hydraulic presses and pumps, with special danger-saving automatic arrangements. Copperplate printing is now largely produced by means of a steel die used on a powerful and special type of Gough's patent automatic embossing and printing press, made by this firm, the work being known as the "new process" copperplate work, being sharper, brighter, and cheaper than the older processes.

Shanks and Derlitzki, 80, Wiesbaden road, London, N., are the representatives for Great Britain and the Colonies of the well-known printing machine manufacturer, J. G. Mailander, of Caunstatt-Stuttgart. The firm issue a catalogue illustrating and describing all kinds of machines and appliances for letterpress, litho-colotype, tinplate, celluloid, and other work. New and effective designs in wood type are also stocked.

John Shaw and Sons, Honley, Huddersfield.—This well-known firm keeps on expanding and increasing its yearly output of Ruling Machines, in which they specialise. Their world-renowned "Striker" machines have a greater sale than ever, but this is to be expected when we know that Messrs. Shaw and Sons are continually introducing improvements that are calculated to save both time and labour. The firm has now supplied considerably over 2,500 ruling machines, which have gone all over the world, and especially to Canada, where they seem to have got the better of the American makers. Their machines are also shipped to Australia, New Zealand, South Africa, and other Colonies, and they are installed in the Government Printing Offices in South Africa, New Zealand and Cyprus. In Great Britain one firm alone has been supplied with nearly 100 machines. The firm has also an excellent demand for their new "Imperial" Iron Disc Ruling Machine, made entirely of metal, with the exception of the layboy, which delivers the sheets perfectly true and accurate. Some of the largest firms in the kingdom have been supplied with the "Imperial," which the makers claim to be superior to either the French or German built machines. Messrs. Shaw and Sons are complete ruler's outfitters, and their large works at Honley are fully equipped for making any class or style of paper ruler. A descriptive catalogue will be sent on application.

Smyth-Horne, Ltd., 19, Cursitor-street, Chancery-lane, London, E.C.—This is a new firm that has opened handsome new premises and show-rooms at the above address, where they have on view a considerable number of machines and appliances for the use of the printer, book-binder and manufacturing stationer. The firm has been appointed sole European and Colonial agents for the Smyth Manufacturing Co., of Hartford, Connecticut, U.S.A., whose book-sewing, case-making, cloth-cutting, casing-in, glueing, and pasting machines, will be constantly on exhibition for the inspection of those interested. The Smyth machines are well known, and their merits are thoroughly appreciated, and users and prospective purchasers may be glad to know that Messrs. Smyth-Horne, Ltd., will stock, in London, duplicate parts of all machines, so that, in the event of breakages occurring, repairs may be executed at once, and so obviate the standing idle of machines and their operators. Thread, tape, glue, and other materials are also stocked.

H. Stevenson and Sons, Ltd., Pollard-street, Ancoats, Manchester, are makers of cardboard box making machinery of all kinds. They hold several patents in metal edges, and they are just now introducing some new machines for box making into this country. One of these is the "Columbus Lightning Press," which will cut, crease, punch, print, and emboss 40,000 boxes per day. They have also specialties in guillotines and blocking machines, lining, grooving, slitting and winding, and other appliances. They are agents for the Actiengesellschaft für Cartonnagen Industrie, Dresden.

The Wetter Numbering Machine Co., U.S.A.: European agent, Samuel Insull, sen., 34, Queen-street, Cheapside, London.—The Wetter Co.'s typographic automatic numbering machines are well known, and are being used in all parts of the world. They have recently produced an "Improved Wetter," and claim that it is the best and cheapest in the market. It can be easily operated on a cylinder or platen press. The prefix "No." can be removed and another character or blank slide inserted in its place without removing the machine from the press. This is certainly a positive advantage in a type-high machine. The "Midget" Wetter is the latest introduction. They are also makers of special and foreign numerals, and specially engraved letter wheels to precede the figure wheels to any of their typographic machines. Further information can be obtained from Mr. Insull at the above address.

A. C. Wells and Co., 105, Midland-road, St. Pancras, London.—Make a most useful appliance in the form of an oil filter, by the use of which machinery and other oils

H. C. CHENNELL & CO.,
19, LUDGATE HILL, LONDON, E.C.
Special Buyers for Australia & New Zealand Markets,
Of PAPER, STATIONERY, PRINTING MATERIALS,
and FANCY GOODS, Etc.

Open to treat with two or three SOUTH AFRICAN HOUSES in this capacity. References exchanged.

BOOKBINDERS'

Marbling Colours, Varnishes, Blocking Powders, &c.

Prepared Book-Edge Carmine
Marbling Colours
Marbling Gum Dragon
Gum Arabic
Gum Substitute
Egg Albumen
Leather Varnish
Cloth Varnish
Paper Varnish

Stamping Varnish
Anti-Tarnish Fluid
Crystal Finishing Varnish
Extra Deep Gold
Gold Leaf Substitute
Imitation Gold
Untarnishable Silver
Lemon Gold
Bronze Powder

Blocking Inks
Ruling Ink Powder
Indigo Ink Powder
Blocking Powders for Silk,
Leather, Tickets,
and Cloth.

SHIPPERS SUPPLIED.

G. MORRIS, The Bookbinders' Colourman,
291, City Road, LONDON, E.C.

Bamforth's LIFE MODEL

REAL PHOTOS

Post Cards



THE HOLY CITY IN

Let us give you a glowing
description of the Holy City
in the form of a series of
pictures. The pictures are
taken from the Holy City
and are of the highest
quality. They are of the
highest interest and value.
They are of the highest
interest and value.

NEW
LIST
NOW
READY.

NEW
LIST
NOW
READY.

New Hymns and all the LATEST SONGS of the Season,
BEAUTIFULLY ILLUSTRATED.
Also New Comic, Child Studies, Views, etc., etc.

Write AT ONCE for Samples and Terms to

BAMFORTH & Co.,

Publishers,

HOLMFIRTH, YORKS.

Also

31 & 33, High Holborn, LONDON, W.C.
And 35 West 21st Street, NEW YORK, U.S.A.

The Largest Song
Illustrators in the World.

WELLS' "LIGHTNING" LIME AND COLOUR WASHER.

A Great Saving in Time,
Labour and Money.

NO OUTSIDE POWER REQUIRED.

Lime, Whiting or Cold-Water Paints Applied at a speed of from 10 to 20 square yards per minute, in a manner superior to brush work.
One coat with the Machine on rough surfaces is equal to Two applied with brushes.

The Material is applied in the form of a spray, and is driven into corners and difficult places where a brush will not reach.



Will save First Cost in a few weeks.

No. 6a.	—Cheap Pattern, No Wheels, ...	Price	£5 15 0
No. 6.	—Handy size, No Tank ...		7 7 0
No. 4.	—With 5-ft. Pole, single Spraying Nozzle and 20-ft. special Armoured Hose, Capacity 6 gallons ...		8 10 0
No. 4a.	—With Wheels, 5-ft. Poles, Single Spraying Nozzle and 20-ft. special Armoured Hose. Same capacity as No. 4 machine ...		9 10 0
No. 5.	—Large Machine, with 5-ft. Pole Double Spraying Nozzle, and 20-ft. of special Armoured Hose. Capacity 10 gallons ...		10 10 0
No. 5a.	—Ditto, with wheels ...		11 15 0

WELLS' IMPROVED LIMEWASH.

Quickly Mixed. Leaves a good surface.

There has been a growing demand of late years for distemper, or cold-water paints as they are termed, for use in Works, Factories and other places. Owing to the expense of these, many are deterred from using the various makes on the market. We have brought out a cheap form of Limewash which can be used in our Lime and Colour Washers, and which, whilst having the main advantages of the more expensive distempers, can be supplied at less than half the cost.

The material is in the form of a powder ready for mixing with water, and is supplied in barrels containing 1 or 3 cwt.
Price 13/8 per cwt. Carriage Paid in England and Wales.
(if in lots of 3 cwt. at a time, 12/8 per cwt.)

Much Superior to
ORDINARY Limewash
Slaked with Water.



WELLS' Patent "WASTE OIL" FILTERS WITH SIGHT FEED SYPHONS.

Supplied to the principal Governments for the Navy, Dockyards, etc., and in the leading Electric Light Installations, Engineering Works, Gas Engine Makers, Printers, etc., etc.

Over 11,000 Sold.

MONEY SAVERS to any USERS OF MACHINERY.

Pay first cost in a short time, as Dirty Oil, which has hitherto been thrown away, can be filtered and used again and again.

Write for List of Testimonials and Samples of Work done by the Filter.

No. 1.	—For users having only a small quantity of oil to treat (so siphon), 17-in. by 9-in. ...	35/-
No. 2.	—Two top chambers hold about 3 gallons oil, 22-in. by 10-in. ...	50/-
No. 3.	—" " " " 27-in. by 12-in. ...	70/-
No. 4.	—" " " " 36-in. by 16-in. ...	110/-
No. 5.	—" " " " 43-in. by 23-in. ...	189/-
No. 6.	—Very powerful Filter for treating large quantities of oil, 54-in. by 30-in. fitted with 2 Steam Coils ...	336/-

Capable of dealing with some 250 Gallons Oil per week.
LARGER SIZES MADE TO ORDER.

A.C. WELLS & CO., 105a, Midland Rd., LONDON. WORKS:—Carnarvon St. MANCHESTER.

Messrs. A. W. SOMERS & Co.,

PAPER MAKERS' AGENTS,
90, Cannon Street, LONDON, E.C.

REPRESENTING:
CARL RUDOLF BERGMANN, BERLIN,
(ENVELOPE MANUFACTURER).
FREIBERGER PAPIERFABRIK, WEISSENBORN,
(HIGH-CLASS IVORY BOARD MANUFACTURERS).
FRIEDRICH ELSAS, Junr., BARMEN,
(HIGH-CLASS CHROMO PAPER and CHROMO BOARD MANUFACTURER).
and for the NORTH of ENGLAND ONLY:
PAPIERFABRIK WEISSENSTEIN, DILLWEISSENSTEIN,
(IVORY BOARDS, LITHO PAPER, etc.).
Also VEGETABLE PARCHMENTS, M. G. CAPS, PASTEBOARDS, etc.

KENNY & Co.,

TYPOGRAPHICAL MUSIC & GENERAL PRINTERS.

FIRST CLASS BOOK AND PERIODICAL WORK.
Machines up to and including Four Demy Perfecting. Hot Rolling by Gill's Machine. Price List on application. Paper Binding, &c.

25, CAMDEN ROAD, LONDON, N.W. Telegrams: "KENNICO, LONDON." Telephone No.: 1940 NORTH.

GOATES BROS & Co

LIMITED

Printing Ink Manufacturers,
8, SALISBURY COURT,
FLEET STREET, E.C.
AND
72a, GEORGE STREET,
MANCHESTER.

J. HOLLAND & CO.,

Telephone: HOF 413. Telegrams: HOFFARBE London.

Makers of TYPE FINE ART MONOTYPE STEREOTYPE LINTYPE &c. &c.

METAL

Lead, Antimony and Tin at Market Prices. Guaranteed Pure and of Standard Quality.
Albert Works, Marlborough Road, Old Kent Road, LONDON, S.E.

CYLINDER DUST BELLOWS

(Patented).
No more Short Circuits in Cleaning Electrical Machinery.



NEAT, LIGHT, DURABLE. USED THE WORLD OVER. Invented and Manufactured by AUGUST KRAUSHAAR.

For sale in six different sizes by the leading electrical and technical supply houses, felt, TYPE FOUNDRIES, hardware, machine and piano supply houses in the country. These Bellows have no metal mountings, the nozzle as well as body is made of wood, precluding short circuits or injury of any kind. They are very light and almost indestructible. Produce with one stroke 1 1/2 to 5 1/2 cu. dec. of strongly compressed air, which removes all dust particles from the most inaccessible places.

AUGUST KRAUSHAAR, Hanau a/M. (Germany), 155.
Catalogues and Samples are sent only to Agents.

Branch Offices:—U. S. America: P. PEIFFER, 200-4, Accademia Street, Newark, N. J. Holland: B. PFALTZER, Kloveniersburgwal 99, Amsterdam; London: for Sale by H. J. FLETCHER & Co., 81-83, East Road, N.; CASLON LETTER FOUNDRY, 22-23, Chiswell Street, E.C.; GENERAL ELECTRIC CO., 69, Queen Victoria Street; J. & J. GODDARD, 68, Tottenham Court Road, W.; INTERNATIONAL ELECTRIC CO., 55, Red Cross Street, E.C.; FREDK. ULLMER, Cross Street, Farringdon Road, E.C.; Manchester: F. LENNINGS & HUSING, Trevelyan Buildings.

PICTORIAL POSTCARDS.

ONE or SEVERAL COLOURS.

SPECIAL ATTENTION GIVEN TO THE BLOCKS AND PRINTING.



WRITE US FOR SPECIMENS (FREE) AND PRICES. WE SUPPLY POSTCARDS FOR ALL PURPOSES.

The British Photo Engraving Co., DEPT. P.C.B., Coventry.

THE ONLY ADDRESS OF JAMES DELLAGANA & CO.,

STEREOTYPE FOUNDERS, ELECTROTYPERS, PROCESS ENGRAVERS, &c.
IS VIADUCT FOUNDRY, Turnagain Lane, Farringdon St., E.C. Close to Holborn Viaduct.
Telephone: 1805 HOLBORN.

may be cleansed from impurities and used over and over again, thereby effecting a great saving to the consumer.

TYPEFOUNDERS, &c.

The Austin Letter Foundry, Limited, Parkfield-street, Islington, London, N.—This well-known typefoundry was established over a hundred years ago, and has always held a high place in the estimation of the trade for the quality of its products. It probably possesses the largest number of matrices of any typefoundry in the kingdom, and the specimen book shows a well-selected and beautifully designed selection of faces. The personnel of the firm has recently altered, and the foundry is now conducted by several gentlemen of experience, and with long trainings in the business of typefounding, in both its practical and commercial aspects.

John Black, 19, Duncombe-road, London, N., supplies all kinds of quads at cheap rates, cast either on the point system or to match old bodies.

J. C. Barker and Co., 21/22, Dean-street, Fetter-lane, London, E.C.—A firm of typefounders who make a feature of supplying quads and spaces cast to the correct gauge of any of the leading foundry's type, in all the principal sizes. Leads, clumps, metal furniture, and brass rule are also manufactured, and the firm produce a fount of "typewriter" type that is excellent for circular work, etc. Messrs. Barker and Co. having purchased a large number of the defunct London Typing Co.'s matrices, printers are invited to write if they require sorts.

J. Holland and Co., Marlborough-road, Old Kent-road, London, S.E., make type, stereotype, electrotype, and linotype metal of pure and good quality at reasonable prices.

T. G. & J. Jubb, Brandling-street, Jack-lane, Hunslet, Leeds.—To obtain the very best results on Linotype and Monotype Machines it is essential that the metal used for casting the slugs or types be of the highest quality, and to supply this class of metal is the special object of this firm. Their metal for composing machines is so prepared as to give the sharpest results in the type faces, and to aid in securing the purity of the metal the firm supplies what are termed "Lino Tablets" that may be used without danger to the matrices or detriment to the machine, while they aid in lubrication and act as cleansers. The rapid multiplication of rotary machines in printing offices has led to an enormous demand for stereo metal. Orders for twenty tons at one time being no uncommon thing at Messrs. Jubb's works. The firm supplies over 200 of the largest newspaper offices in the kingdom, and their metals are much appreciated by all users, while, as a further testimonial to their excellence, it may be mentioned that they were awarded a special silver medal for their metals at the late Printers' Exhibition, held in the Agricultural Hall, London. Messrs. Jubb are also noted for the high qualities of the metals specially manufactured for giving the best results on Linotype and Monotype composing machines, and for typecasting, electrotypes, and stereotypers, and the firm's methods of mixing the various combinations of materials to form the best metal suited to these different requirements is the result of fifty years' practical experience in this class of work. The increase of business has necessitated extensive additions to the works at Leeds, which are now completed, and will enable the great increase of business to be handled speedily. Printers who wish to try Jubb's metal will receive a sample free of cost on application. They are contractors to the Indian Government. The London Office is at 63-64, Chancery-lane, E.C., where Mr. Glen Steel represents the firm.

Miller, Son and Co., Ltd., Fakenham, are makers of type metal, which they offer in three qualities, "finest," "super," and "stereo," at moderate prices. Metals are mixed, if so desired, to customers' own recipes, and strict faith is kept.

The Patent Type Foundry (P. M. Shanks and Sons, Ltd.), Red-lion-square, London, W.C.—Newspaper founts cast from extra hard metal, for which the firm allow 5d. per pound on all "letter" returned, is the specialty of this house, and Colonial newspaper proprietors have so frequently repeated their outfits at intervals of seven to ten years that the qualities of the supply cannot be questioned. Several new and pleasing faces have lately been added to the firm's specimen book.

T. Pepper and Son, 24, Great Sutton-street, London, E.C.—An old-established firm of typefounders that supplies book and news type, spaces, and quads, cast to standard bodies, and on the point system. Leads, quotations, furniture, logotypes, accents, etc., are also supplied, and estimates are furnished for any special work required.

J. G. Schelter and Giesecke, Leipzig, is an important typefounding house whose products have a world-wide reputation for excellence. Their specimen books of body and jobbing founts, borders and ornaments should be seen by all printers who desire to do fine work. The British agents are Wesschoeff and Zimmerman, 34, New Bridge-street, London, E.C., with branches at Nottingham and Glasgow.

The Standard Type Foundry, Ltd., 17, Gough-square, Fleet-street, E.C., is a young and progressive firm that is making rapid strides in the business. Commencing in 1904, the staff and plant have been largely augmented, while the premises are being enlarged from time to time. Type faces, both jobbing and book, are being rapidly produced. These are cast on American point body, Standard line, etc., in a thoroughly good hard metal and of high finish. All kinds of printers' requirements are supplied, a special feature being the low price of quads and spaces cast on American point bodies, or to any other standard. Only experienced men are employed, and the whole is under the personal supervision of Mr. F. H. Nichols, who is a practical typefounder of many years experience, so that the accuracy and finish of Standard productions may be relied on. A special point is made of prompt delivery and attention to enquiries, numerous testimonials having been received by the firm testifying to this. The Standard Foundry is supplying many of the largest printers, and can handle business of any magnitude.

TYPECASTING APPLIANCES.

R. P. Bannermann, Northampton Works 12, Canonbury-grove, London, N., is a reliable maker of matrices, moulds, tools, etc., for typefounders. In response to increasing calls for engineering work, and the demand for Mr. Bannermann's special solid breaking-off breaks for type moulds, he has again extended his workshop, and laid down further expensive machinery to meet it. He proposes to add a repairing staff for general engineering specially to embrace printers' engineering. He is offering to the trade an excellent typecasting machine with the latest improvements.

Wood, Miles and Co., 27, Bower-road, Whitepost-lane, Victoria-park, London, N.E., are manufacturers of typecasting machines which embody many improvements, moulds, matrices, and all appliances for typecasting. They give full instructions to all printers who are desirous of casting their own type. The firm also cast type for the trade, and can supply printers with founts of any quantity at moderate prices. Four of the leading Government printers in London have 30 machines in use. The firm offers to lay down a complete plant for any printer free of cost, concerning which a circular will be sent on application.

PRINTING INKS, &c.

The Ault and Wiborg Co., St. John's-square, London, E.C.—This is a well-known firm of American printing ink makers, with factories at Cincinnati, New York, Chicago, St. Louis, Toronto, and Buenos Ayres, the English warehouse and factory being at the above address. They supply every description of letterpress and litho inks in black and colours, and their manufacturers have attained a world-wide reputation for their good qualities, while the prices are right.

Berger and Wirth, 9, New Union-street, London, E.C., are well-known as fine dry colour and printing ink makers. Their specialties are madder lakes, tint white, permanent reds, and fine black out inks, which latter they are supplying to some of the most prominent firms of art printers. They have also obtained a patent for supplying their well-known "Victoria" and "Bianca" (white) roller compositions, in a way as novel as it is practical. The device admits of the compo being broken up into equal parts with the minimum of time and labour, and is sure to be appreciated by the trade. The firm are agents for Messrs. Rockstroh and Schnieder, printers' engineers, of Dresden-Heidenau.

Coates Bros. and Co., Ltd., 8, Salisbury-court, Fleet-street, London, E.C., and at Manchester, are makers of letterpress and litho inks of all classes, varnishes, oils, &c., which are favourably known in the trade. They also supply bronze metal leaf, import litho stones, and do an excellent trade in colours, blacks, &c.

L. Cornelissen and Son, 22, Great Queen-street, London, W.C.—A house that has been long and favourably known in the trade for the supply of lithographic materials and French colours, transfer papers, gelatine sheets, and in fact almost everything that can be wanted for the art of lithography.

Culross and Co., Ltd., 18a, St. Bride-street, London, E.C., are well known manufacturers of black and coloured printing inks in all shades, for litho, letterpress and poster work. They supply ink specially manufactured to suit all climates.

John Kidd and Co., Ltd., Wine-Office-court, London, E.C.—This house was originally founded by Benjamin Smith and Co. over a century ago, and has always been to the front in the quality of its inks, which are well known to printers. The firm's works are extensive and well equipped, and every class of ink, in black and colours, is manufactured.

C. H. Lorilleux and Co., 16, Rue Suger, Paris, Vie.—This is one of the oldest and largest firms of printing ink manufacturers in the world, having works at Puteaux and Nanterre, France; Bergamo, Italy; and Barcelona, Spain; with

branches and depôts all over the world. The business was founded by Mr. Pierre Lorilleux in 1818, and since then the firm's record has been one of progress. All classes of printing ink are made, including special inks for three-colour work, reproducing photographs, and for printing on metal, and the firm is continually seeking for methods that will tend to the improvement of their manufactures for the benefit of printers. London office: 2, Maddan's-buildings, New-street-square, E.C.

G. and F. Milthorp, Vicarage-street, Wakefield, are well-known makers of all kinds of printing inks for letterpress and litho, varnish, roller composition, and printing materials.

Morris and Bolton, Ltd., 17, Took's-court, Furnival-street, London, E.C., and Eclipse Works, Stratford, E., are printing ink and varnish manufacturers, who prepare all kinds of inks and dry colours for letterpress or litho printing. They also supply bronzes, litho stones, and other sundries, and have a long practical experience of the requirements of the trade.

Shackell, Edwards and Co., Ltd. (Established 1786), 5, Red Lion-passage, Fleet-street, London.—This is one of the most up-to-date firms in the trade, and has a connection second to none for printing inks of every description. As manufacturers of many of their raw materials, and having agencies in most of the colonies, they are able to quote for export to advantage. A large number of Government Printing Offices are supplied by this house.

LEATHER, FANCY GOODS, STATIONERS' and STORE SUNDRIES

L. Antoine Fils and Co., 62, Rue des Marais, Paris, and 13, Rose-street, London, E.C.—Antoine's copying and writing inks have a world-wide celebrity, and they have received gold medals and diplomas at several exhibitions. The blue-blacks and scarlets are of special quality and flow freely. The firm also makes endorsing inks of all kinds, marking inks, mucilages, liquid cement, sealing waxes, and a number of other lines that may be handled with advantage by the stationer.

William Ashton and Sons, Ltd., Church-walk, Southport, are manufacturers of calendars and advertising specialties of a most attractive kind. The firm issue comprehensive lists, and their samples should be seen by all who cater for the enterprising advertiser. A feature is also made of supplying wrapping paper in rolls for shopkeepers, and the appliances for its economical use. Messrs. Ashton are now producing colotype or coloured post-cards from customers' own prints. These are of a fine quality and show an excellent profit.

Bamforth and Co., Holmfirth, Yorks, 31-33, High Holborn, London, and at New York.—The "Life Model" series of real photo post-cards issued by this firm is one of the most popular ever put on the market, and has achieved a phenomenal success in this country and abroad. Messrs. Bamforth and Co. have special studios in which any class of picture may be staged and photographed with special scenery. A feature is made of illustrating songs on post-cards, and Mr. Bamforth says he only wants an hour's notice to illustrate any song on the market. The firm had many years' experience in getting up "Life Models" for lantern slides, and so had nothing to learn in the way of posing and getting up pictures when the post-card business was started. An excellent and comprehensive catalogue is published, and new subjects are being continually added.

British Leather Cloth Manufacturing Co., Ltd., Newton, Hyde, near Manchester.—Sole makers of the celebrated leather cloth "Rexine." It is a perfect leather substitute for bookbinding, pocket book, fancy box and jewellers' case making, upholstery of furniture, motor car and carriage linings. They claim to have a larger and

more modern plant than any other firm engaged in a similar business. "Rexine" is regularly used by the British Government, also the governments of Canada, India, New South Wales, South Africa, Japan, and Norway. There is a rapidly increasing influx of orders coming in from the home markets and from all parts of the world. London offices: 23, Noble-street, E.C.; also at Sydney, Toronto, Cape Town, New York, Paris, Brussels, and The Hague.

The City Paper Bag Co., Ltd., Milk-street, Bristol, manufacture all kinds of paper bags for the trade both hand and machine-made, and supply them, with or without printed matter, at extremely low rates. Wholesale and export orders have special attention, and samples and prices will be sent on application.

William Collins, Sons and Co. Ltd., Glasgow and London.—This is one of the largest wholesale houses in the stationery trade. Their goods are known all over the world, and "Collins' Bibles" are to be found everywhere. They are extensive manufacturers of pens in all grades and at popular prices, and their "Diaries" are most useful to the busy man.

The Copying Inventions and Patents Co., 14-18, Queen Victoria-street, London, E.C., manufacture the "Cyclostyle," a well-known copying apparatus for office use. They also make the "Compo Lithograph," another copying device, and are agents for W. Haber's "Multiplex" inks, etc.

The Diamond Tag Co., Bermondsey-square, London, S.E.—Manufacturers and printers of tags and labels of every description, and for every purpose, of strong and excellent quality. They are also makers of gum labels, drapers tickets, waterproof florists' labels, metal-edged labels, merchandise tickets, tack-cards, invoice tag envelopes, etc., and are sole makers of the "Lightning" label fastener, an ingenious device that requires no string.

Chas. Eason and Son, Ltd., Middle Abbey-street, Dublin.—A firm famous for its capital series of index and "Where is it" books, that are used extensively by students and professional men. Their commonplace book (Index Rerum) is one of the best things of its kind ever brought out. The "Professional Note Book" is another excellent line, as is also the "S" series of Universal indexes, in seven sizes. Their "Every Hour" diary is one of the best desk books yet issued. Wholesale agents, Waterston and Son, 8, St. Bride-street, London.

J. J. Field, 25, Helmet-row, London, E.C.—Field's writing inks have a world-wide reputation for their high qualities, and are used in all countries, and under all sorts of climatic conditions, with entire satisfaction. They do not corrode the pen, and may be depended on for permanence of colour. The firm's liquid gum and sealing wax are also good selling lines.

Fisher, Clarke and Co., Boston, England, are makers of all kinds of tags and labels, plain or printed, two colours being charged at the usual prices for one colour. The firm has a reputation for good work, and was established in 1850.

Gilyard Brothers, Bradford, Yorks.—Publishers of the "Ideal" series of Christmas cards, which combine original ideas with attractive designs and novel effects. Their "Ideal" blanks for private cards and the "Ideal" greeting and autograph cards are very dainty, while the good value and moderate price should recommend the entire series. Sample books, wholesale and export, may be had on application.

William Goddard, 37, Gray's-inn-road, London, supplies printers with an artistic series of electros, by the use of which on fancy cards they may produce their own line of private greeting cards for Christmas. The designs are attractive and the greetings of a suitable character. Printers

Shackell's "MORDANT"
THE NEW
NON-GREASY INK-EASER.
1/6 per lb.

Shackell, Edwards & Co., Ltd.,
PRINTING INK MAKERS.

(ESTABLISHED 1786.)

5, Red Lion Passage, Fleet Street, LONDON, E.C.

LONDON & PROVINCIAL REPRODUCTION CO.
HIGH-CLASS PROCESS BLOCKS
 BARRY ST. BRADFORD, YORKS.

ART COLLOTYPE
 PRINTING FOR
 PORTRAIT BOOK PLATES,
 PICTURE REPRODUCTIONS,
 ART CATALOGUES,
 VIEWS, POST CARDS, Etc.
WETHERMAN & CO., LTD.,
 ENFIELD.

GILCHRIST BROS
 PHOTOENGRAVERS
 PHOTO-LITHOS PHOTO-CARRIERS
 ARTISTS DESIGNERS
 QUEENS PLACE, CLAY PIT LANE, LEEDS.
 WRITE FOR BOOKLET.

TRADE GOLD BLOCKERS FOR 20 YEARS
WEISE BROTHERS
 ADVERTISING TABLETS
 5667, SINGER ST. LONDON, E.C.

W.F. EDGWICK
 PHOTO ENGRAVERS
 ARTISTS DESIGNERS
 236, BLACKFRIARS RD., LONDON S.E.
 ESTABLISHED 1840 AS W. EGLINGTON.
 TELEPHONE NO. 11708 CENTRAL.

C. H. READ & CO.,
 (READ & PERRY),
 Draughtsmen and Engravers on Wood,
 ELECTROTYPERS, STOCK ELECTROS, etc.
 28, PATERNOSTER SQUARE, E.C.

M. Pogson & Co
 HIGH CLASS PHOTO ENGRAVERS
 DESIGNERS AND ILLUSTRATORS
 BY ALL PROCESSES
 72 Market St. MANCHESTER
 Telephone No 5295
 Telegrams "ZINCO" MANCHESTER

Trade Cards.

The rates for announcements of this character, appearing on this page only, are as follows, for a 27/100 of one inch deep in single column to appear weekly only: 55 insertions 45; 25 insertions 25 19s. 6d.; 15 insertions 30s. net cash, including a voucher 5/11 each week. Extra space, up to two inches in all, at proportionate rate.

T. J. HUNT,
 Account Book Manufacturer, Indexer, Machine Ruler, Numerical Printer, Perforator, Wirestitcher, &c.
TRADE ONLY.
 17 & 18, Paradise Street, Tabernacle Street, E.C.,
 13, Garlick Hill, E.C.
 Telephone No. 4700 Central Telephone No. 2056 Central.
 18, Goldsmith Street, High Holborn. Telephone No. 1977 Central.
Trucks FACTORY Marked.
 Latest Machinery and Electric Power.
 Telegrams: "STANOLINE, LONDON."
 Telephone: No. 2,426 HOLBORN.

THE STANDARD TYPE FOUNDRY
SPACES AND QUADS
 On the Standard System of Nicks. Descriptive Pamphlet Post Free.
30% below prevailing rates.
 Official American Point Standard also 72 picas to the foot.
 BOTH STANDARDS GUARANTEED ACCURATE.
 Furniture and Material of every Description.
EVERYTHING FOR THE PRINTER.
 We quote for anything and welcome inquiries. Prompt delivery a very special feature.
17 Gough Square, Fleet Street LONDON, E.C.

DORENDORFF & CO.,
 MAKERS OF THE "FRIENDSHIP SERIES"
Private Christmas Cards
 Also Blank Xmas Cards, Menus, Ball Programmes, Wedding Stationery, &c. &c.
ALL OF BRITISH MANUFACTURE.
 5 & 7, WORSHIP STREET, LONDON, E.C.

DOWNEY'S ELECTROS
 LIST FREE on application.
DOWNEY,
 63, Berner's Street, LONDON, W.

THE "ARC" ENGRAVING CO. LTD.
 4 & 6 FARRINGTON AVENUE
 TRI COLOUR
 BI COLOUR
 HALF TONE
 LINE
 RETOUCHING PHOTOS.
 ESTIMATES GIVEN

W. R. BALLS,
 WHOLESALE
Miscellaneous Bookbinder,
 NUMERICAL PRINTER & PERFORATOR.
 SEND FOR PRICE LISTS.
 362, Gray's Inn Road, King's Cross, W.C.

CHEAP QUADS
 TRY
John Black, 19, Duncombe Road,
 Point, Old Bodies. Catalogues Free. LONDON, N.

P.O. Telephone No. 2156 Central.
DIES & BOOKBLOCKERS
BLOCKS GOLD BLOCKERS ETC
MINTON & CASEY
 1 CLERKENWELL RD LONDON E.C.
 25 & 27, Charterhouse St.
 Telegrams "TONED" London.

G. & F. MILTHORP,
 Printing Ink, Varnish,
 Roller Composition and Printing
 Materials Manufacturers
 Vicarage Street, WAKEFIELD.

HALF TONE ENGRAVING CO LTD
 Line & Tone Process Lithos
 Catalogue & Magazine Blocks
 25 FARRINGTON AVENUE LONDON E.C.

THE DIRECT PHOTO ENGRAVING CO
 38 FARRINGTON ST
 HOLBORN VIADUCT

ELECTROTYPERS,
R. K. & I.
 16, St. BRIDE STREET,
 LONDON, E.C.
 TELEPHONE, No. 384, HOLBORN.

British and Colonial Printing and Stationery Houses who require business, confidential or otherwise, transacted in London, but are unable personally to attend to it, should write full particulars to:
F. E. WILLCOCKS, 19, Bartlett's Buildings, Holborn Circus, London, E.C.
 Over 30 years practical trade experience.
 Valuations, Fire Assessor, Arbitration, Transfer, etc.
 Buyer for Colonial Houses on Commission.

DOWNEY'S ELECTROS.
 63, Berner's St., LONDON, W.

A TODOS NUESTROS - LECTORES ESPANOLAS y a los librerias, papeleros, litografos, impresores, esteriotipadores y encuadernadores en Espana y Hispano-América.
 Suscribanse a el BRITISH AND COLONIAL PRINTER AND STATIONER. Solo 12/- o \$3.00 el año; enviar los nombres y direcciones y los remisiones directamente al Sr. W. JOHN STONHILL AND CO., 58, Shoe Lane, London, F.C., Inglaterra.

PICTURE FRAME ROOM AND DADO MOULDINGS.
 ENGLISH AND FOREIGN PICTURE FRAMES.
EVERY REQUISITE FOR THE TRADE.
REGILDING-A Speciality!
 Largest Stock of Mouldings in the Kingdom
 SEND for PATTERN BOOK, 150 PAGES.
 With all NEW PATTERNS and DESIGNS Up-to-Date
 POST FREE, 15 PENNY STAMPS.
IMPORTER OF GLASS
 GLASS Stock Lists free on application.
H. MORELL, 17 & 18, Great St. Andrew Street, BLOOMSBURY, LONDON, W.C.
 Warehouses: 21, 22 & 23, Neal's Yard; 47, Neal Street, in the rear.
 Telegraphic Address: "HARRITY, LONDON."
 Telephone: 6125 CENTRAL.

SHELDON, MELLOTT & CO
 ART ELECTROTYPERS
STEEL FACING
 FOR ELECTRO, STEREO & COLOR BLOCKS
 STENCILS, PHOTOGRAPHS ETC.
 280, HIGH HOLBORN, W.C.

Every Printer his own Embosser
HOW TO DO GOOD EMBOSSEING ON AN ORDINARY JOB PRESS.
 Full detailed Instructions, & Specimens of Work done, will be found in
"Practical Embossing"
 By F. A. CUNNINGHAM.
 8vo., Price 3/- post free.
 British Sales Agents:-
W. JOHN STONHILL & CO., 58, Shoe Lane LONDON, E.C.

ELECTROS
 FOR ALL TRADES.
 Send for LIST FREE.
DOWNEY,
 63, Berner's Street LONDON, W.

Gold Medal, International Printing Exhibition, Crystal Palace, 1903-1904.
 Diploma, First Class, Int. Ptg. Exhibition, London, May, 1904.
THE PATENT NOLISTON PLATES,
 The only True and Reliable Substitute for Lithographic Stones on Hand press or Machine (flat & rotary).
THE NOLISTON CO., LTD.,
 Dashwood House, London, E.C., & Frankfurt, a/M.
 Telephone: 2992 Central. Telegrams: "Noliston." GERMANY

TRADE ELECTROS
DOWNEY,
 63, Berner's Street, LONDON, W.
 SEND FOR LIST FREE.

I Introduce Orders for Printing
 From people in your town, village or district, of whose requirements I have special information. I make no charge for my introductions to those who purchase my up-to-date Electros for the illustration of smart advertising and printing. Full details of my proposition sent post free on application to
Wm. Goddard,
 37, GRAY'S INN ROAD, LONDON, W.C.

Illustrated Artistic Encyclopaedia
 Books and Publications of high artistic value, fully illustrated by Academic Studies of the Nude. All photographs obtained with living models. Splendid selection of Nude Womanhood; original photographs.
 Illustrated special Catalogue sent on demand.
C. KLARY, Editor of Le Photogramme,
 17, Rue de Maubeuge Paris, France.

MANUFACTURERS OF SEALING WAX
CONTRACTORS TO H.M. GOVERNMENT OFFICES.
James Macneill & Son., Ltd.,
 St. Enochs Works,
 Telegrams: "VERMILION." **GLASGOW.**

For SEALING, PARCELLING, BOTTLING and ENGRAVING.

taking up this style of card producing should make a good thing of it as only one customer in a district is supplied with these electros.

W. W. Harling, 47, Finsbury-pavement, London, E.C., manufactures every description of mathematical and drawing instruments of the best quality and finish, of British manufacture, the prices of which will compare favourably with those of any other firm. An illustrated catalogue is issued that will be sent free to any part of the world on application. Mr. Harling is contractor to His Majesty's War Department, the Admiralty, Council of India, etc.

T. J. Hunt, 17-18, Paradise-street, London, E.C.—Mr. Hunt works for the trade, and is an account book manufacturer, machine ruler, numerical printer, perforator, and wire stitcher, who makes speed in getting out orders a feature. Mr. Hunt has acquired the ruling branch of the old-established business of Messrs. Purkis and Shute, of 17-18, Garlic-hill.

Hyman Bros., Portland Wharf, St. Anne's-street, Commercial-road, London, E.—This firm makes a speciality of millboards of all weights and sizes, and have a regular line in grey millboards that is of good quality and worth attention.

Hugh Imlay and Co. (Ltd.), Park-road Works, Aberdeen.—One of the best houses for lines in envelopes, and entirely trustworthy. They do a considerable export trade in these, and also in the attractive stationery packets and boxes that so actively help the flow of the nimble sixpence or merry shilling over the retail counter. They cultivate a respectable trade, and prefer their indents to come through recognised channels. Practically everything in the way of envelopes can be obtained from them, and machines for manufacturing new sizes and styles are frequently being put down.

Jeffrey & Co., 64, Essex-rd, London, N. make all classes of hand and machine printed non-arsenical wall papers. The firm is noted for the artistic excellence of its designs and has always secured high awards wherever exhibited, many gold medals at present standing to its credit.

Fred Lockwood and Co., 125, Scotland-road, and Hawley and Norris-streets, Liverpool, are publishers of Christmas and other private greeting cards. Two special lines, the "Universal" and the "Super-Vative" assortments contain the very choicest cards, in attractive designs and the highest finish. The firm's sample books should be seen by all who handle this class of goods; they will be sent on receipt of trade reference.

The London Artistic Card Co., 199, Upper Thames-street, London, E.C., make a feature of special styles in Christmas, invitation, menu, memorial, programme, wedding, and other similar cards, at reasonable prices. Sample books are sent post free for a small charge.

Lovett & Co., 53-56, Great Sutton-street, Goswell-road, London, E.C., are gold blockers, card embossers, bevel-edge card gilders, and showcard manufacturers, who also do blocking, relief stamping, card cutting, scoring, etc., for the trade at moderate prices. They have recently removed to much larger premises at the above address. The firm secured a gold medal at the last Crystal Palace Printing Trade Exhibition.

The Mendine Manufacturing Co., 169, Tooley-street, London, S.E., handle a profitable and quick selling line in adhesives. It is a preparation termed "Mendine," that is useful for sticking or repairing almost anything, and is cleanly to use. The material is neatly put up in tubes, and attractive advertising matter is supplied gratis.

The Midland Publishing Co., Leamington, is a well-known Midland firm of Christmas card manufacturers. They have recently removed their warehouses and works from Warwick to Leamington, the

increase in business and the laying down of additional plant having necessitated their obtaining more extensive premises, and the buildings, which have been specially prepared for their requirements, cover more than double the area of their former works. The firm makes a special feature of supplying first quality cards at popular prices, and the assortment of designs is so varied as to contain something to suit all taste. The sample books of private greeting cards contain a unique selection that should be seen by all who do business in this profitable line for retailers.

H. Morell, 17-18, Great St. Andrew-street, London, W.C., is a manufacturer and importer of mouldings, picture frames, etc. Washable gilt mouldings, black, carved wood, and room and dado mouldings are special features of his stock, which is varied and extensive and always contains the newest and most up-to-date designs.

Edward Mortimer, Regent-street, Halifax, Yorks., is a publisher and stationer who does an extensive business in gold blocking, relief stamping, etc., and prepares designs from life models for publishers and advertisers. Mr. Mortimer is noted for his charming series of private Christmas cards, which are of a novel and attractive character, and well worth the attention of the trade.

McCaw, Stevenson and Orr, Ltd., Linenhall Works, Belfast, London Office: Shoe-lane, E.C.—This is a well-known firm of colour printers who have a worldwide reputation for their imitation stained glass decorations, which are in use almost everywhere. The firm has purchased the patents, copyrights, watermarks, etc., of Marcus Ward and Co., and now produce and supply the specialties for which that firm was famous, including calendars, programme, menu, and memorial cards, diaries, albums, school books, birthday books, and the popular "Royal Irish Linen" note paper. The firm has introduced a new style of show card mount that is most effective in appearance, and that will not warp with heat or damp. Messrs. McCaw, Stevenson and Orr have branches at Glasgow, Manchester, Birmingham, and Hamburg.

James Macneill and Son, Ltd., St. Enoch's Works, Barrowfield, Glasgow, are manufacturers of sealing waxes in all qualities. They are contractors to H.M. Government. Their Thistle brand sealing wax, for sealing, parcelling, bottling, and engraving has a deservedly high reputation in the trade, both for quality and cheapness. Its sale is continually increasing, and there has constantly been some extension made to the firm's works and plant since they took up the manufacture of waxes, a quarter of a century ago. For many years previous to that they were extensively engaged in the colour, chemical, gum, and varnish trades, so that their chemical knowledge and experience as colour-makers places them in a good position amongst sealing wax manufacturers. The St. Enoch Works cover a large area of ground, and are modern in every respect. The guiding motto of the firm is "Give satisfaction to customers." Their price list of standard qualities shows a wide range of different varieties, but they are at all times ready to match any customer's sample or produce a special article to suit special requirements, and they claim that there is no cheaper or better wax than the Thistle brand.

Ernest Nieter, 24, St. Bride-street London, E.C., fine art publisher; gift books, children's toy books—the shaped books are noted—Christmas cards, calendars, menus, dance cards, and souvenirs are the chief lines here. The firm's colour printing is of a high class, and a speciality is made of purse and pocket calendars.

The Pencarbon Co., Ltd., London-road, Leicester, have introduced an excellent series of invoice, letter, order and other books that are great labour savers. By the use of their "Zanetic" sheets copies

of letters, invoices, or any kind of document may be made at the one writing, and both the original and the copy are perfect.

The Pictorial Post-Card Co., Ltd., 15, Red Lion-square, London, W.C.—A firm of post-card publishers that make a feature of the Colonial trade. Their Colonial department is organised to execute orders in the very quickest manner, and a "Colonial sample parcel," containing about 615 cards, with catalogue and price list, is sent free to all parts for £1 1s. The prices are so low that an excellent profit may be made.

The Quadruplex Co., 14-16, Scrutton-street, London, E.C.—Perforated strips of post cards are made by this firm. They are intended for use in typewriting machines, and their use is of great advantage in saving time and labour. The firm also makes the "New Rapid Copier," which has been introduced to do away with the old-fashioned and troublesome screw letter press. By simply turning a handle the letter is perfectly copied.

The Rapid Photo Printing Co., Ltd., 4-5, Bridgewater-square, Barbican, London, E.C.—Post cards in the greatest variety are produced by this firm, which announces new issues daily, and offers thousands of designs to choose from, including royalty, actresses, politicians, child studies, animal studies, views, greeting cards, Christmas post cards, and others. Everything of an up-to-date character is stocked in matt or brown glossy surface, and samples and catalogues will be sent post free on application. The firm's works are at Hampton Hill, Middlesex.

E. M. Richford, 9, Snow-hill, London, E.C.—This house occupies a premier position amongst makers of rubber stamps, daters, rubber-faced type, and holders, and the appliances and inks necessary for use in connection therewith. Many of their productions are covered by patents. A feature is made of promptitude in filling orders.

The Rotary Photographic Co., Ltd., 12 New Union-street, London, E.C.; Works: West Drayton.—Besides photographic papers this well-known house make a feature of its post-card department, where may always be found an immense selection of photographic post-cards in almost every class of subject, plain and tinted. Their series of portraits of actors and actresses is unexcelled, and the quality and finish of the goods is of the highest class, while the list is always kept thoroughly up to date by the inclusion of the latest topical subjects.

E. W. Savory, Ltd., Bristol.—A firm of fine art publishers that supplies high-class private greeting cards at moderate prices. Their sample books are of a distinctive and artistic character, and should be seen by buyers.

Albert C. Shoppee, Pancras-street, Tottenham-court-road, London, W.C., is a maker of the best quality of deed, cash, and despatch boxes for sale by stationers and others. The firm is wholesale only, and illustrated price lists may be had on application.

W. E. Smith, Sydney, N.S.W.—This is one of the largest and best equipped printing and stationery houses in Australia, and we have several times noticed in our columns the high quality of the work done. Mr. Smith is desirous of keeping the extensive works thoroughly up-to-date, and for this purpose invites correspondence from engineers, paper-makers, and the fancy trades. Catalogues, lists, etc., can be sent direct to Bridge-street, Sydney, or to the London office, Norfolk House, Laurence Pountney-hill, E.C.

H. C. Standage, 147, Freer-road, Aston Manor, Birmingham, manufactures inks of every kind, including a special fountain pen ink, an indestructible writing ink, and an ink for writing on glass, stone,

brick, etc. He has also a number of specialties that are saleable by stationers, such as a letter copier, cement, water-colour siccative, amber oil, etc., and supplies a number of useful trade recipes, as well as a substance termed "Glutina," a cement for leather goods, paper, cardboard, cloth, metallic foils, etc. Mr. Standage is an expert chemist, whose advice on all matters pertaining to inks and colours is valuable.

Stone's Time Saving Specialties in the form of boxes, chests of drawers, files, office cabinets and bureaux, are well-known in the trade. Several new things in these lines have lately been put on the market, and a new illustrated price list has been issued that should be seen by the trade. It will be sent free on application to the sole agents for Messrs. Stone's goods, George Waterston and Sons, 8, St. Bride-street, E.C., and Warriston Works, Edinburgh.

Raphael Tuck and Sons, Ltd., Raphael House, Moorfields, London, E.C., issue illustrated catalogues which give a vivid notion of their lines, embracing pictures and frames, books, presentation cards, chromos and oleographs, plaques, mantel ornaments, texts, valentines, Christmas, New Year, Easter, birthday and private cards, calendars, etc. Their fine art toy books are ingenious and popular, and a splendid series of illustrated post-cards is issued and continually being added to.

Weise Bros., 5-7, Singer-street, Finsbury, London, E.C., manufacture all kinds of gold and silver blocked advertising tablets and window tickets, calendars, text cards, and programmes. Designing and engraving is also done, together with embossing and blocking on any material.

Widd, Ltd., Castle Works, Bradford.—A firm of gold blockers that undertakes every description of work in silver, white, and foil blocking. Special quotations are given for trade work.

Winnett's National Stamp Co., 15, London-road, Manchester.—A firm that has been well-known for over forty years as makers of endorsing and other classes of flexible stamps, as well as dating and numbering machines, window ticket outfits, office and bank stamps, pads, racks, inks, and other requisites for such appliances. The firm has facilities for making stamps from the smallest size up to a yard square, and can make single letters up to 15 by 20 inches. Amongst their manufactures are "Winnett's Patent Self-Adjusting Transposable Type," and "Winnett's National Outfit Stamps." The firm's business extends to all parts of the world, and Home or Colonial orders are promptly executed. Catalogues and specimen sheets, supplying full particulars of their manufactures, may be had on application.

PENMAKERS.

John Heath and Co., George-street-parade, Birmingham.—For many years Mr. John Heath has familiarised the public with his numerous lines by the neat manner in which he cards them. He was a pioneer in this class of work, and many a flourishing stationer of to-day owes a large portion of his prosperity to the charm conveyed to his window or show case by this means. To the oversea purchaser this house gives somewhat unique advantages in the make-up of selected parcels of £5, £10, or £20 value. No fear of having warehouse "dead lots" pushed off upon one, for the firm is too business-like to risk an established reputation in that way. Especially useful is this plan when adopted with Heath and Co.'s wide range of steel pens, which are alike good and wonderfully cheap. London export and colonial agents, George Waterston and Sons, St. Bride-street.

William Mitchell, Washington Works, Cumberland-street, Birmingham.—Maker of the celebrated selected J, N, and S pens which bear his name. This series of steel pens has probably been the most solidly successful among the myriads of styles turned out by the various makers. The house is a thoroughly responsible one.

JOHN KIDD & CO., LTD.,

11, Wine Office Court, Fleet Street, LONDON.

Manufacturers of **Letterpress and Lithographic Inks**
And **Roller Composition.**



ROLLERS CAST BY MODERN METHODS.

SEND FOR PRICE LISTS.

Telegrams: "INKHOLDER," London.
Telephones: { Central 3,643.
Holborn 5,039.

MISCELLANEOUS BOOKBINDERS.

W. R. Bellis and Co., Metropolitan Works, King's Cross, London, W.C., have a considerable business as publishers' and general bookbinders, gold blockers, case makers, and manufacturers of account books and portfolios. They do a trade with home and colonial book-sellers and stationers, and also undertake contracts for libraries.

BOOKBINDERS' SPECIALTIES, ETC.

Aug. Brehmer, 12, City-road, London.—We should suppose that there is hardly a good house in the trade that is not practically acquainted with the merits of Aug. Brehmer's patent automatic wire stitching machines and binders. He makes a wide range of them, from the cheapest treadle form at a few pounds to the most powerful, equal to driving a staple through an inch of the hardest paper. Mr. Brehmer supplies several high-class thread stitchers, adapted to the finest classes of work, as well as every description of bookbinders' machinery. His new folders are excellent machines. Mr. Brehmer's inventive faculties are cosmopolitan, his trade list containing perhaps a wider variety of this special class of requisites than any other upon our shelves. The new premises were described and illustrated in our issue of May 1st, 1902.

F. Edwards and Co., 20, Paper-street, Redcross-street, London, E.C., are engravers and brass type-founders for the book-binding, gold-blocking and printing trades. They have, by the increase of their business, found it necessary to remove to larger premises at the above address, and having put in new machinery, driven by electric motors, are thus enabled to expedite all orders. They have just issued an enlarged catalogue showing a variety of new and original specimens for hat-tip blocks, rolls, pallets, corner and centre tools, brass blocks, stock bands, scrolls, dashes, coat of arms, express pallets, etc. In the brass type department many new faces have been added. The die-sinking and steel engraving room is replete with monograms, club devices, address dies, seals, etc. Having recently purchased the whole of the late Messrs. Dobbs, Kidd and Co.'s letter punches the firm is able to match any die required by trade embosser. Catalogues will be sent free on application.

G. H. Maddin and Co., Ltd., 10-11, Middle-st., Long-lane, London, E.C., are makers of blocks and types for bookbinders, gold blockers, etc. They make a speciality of cutting dies for embossing. Their new premises were described and illustrated in our issue of March 13th, 1902.

E. T. Marler, 14, Charles-street, Hatton-garden, London, E.C.—Mr. Marler manufactures a special glue, for bookbinders and others, that meets with much appreciation wherever used; it is prepared to meet the special requirements of the binding trade, and is an excellent article for the purpose. Another speciality of Mr. Marler's is the "Lion Brand" blocking inks, which are suitable for all classes of blocking, and especially so for cover work.

Minton and Casey, 1, Clerkenwell-road, and 23 and 24, Charterhouse-buildings, E.C., are artists and engravers by steam power, for bookbinders, gold blockers, stationers, etc. Special machinery is used, and all work is turned out promptly.

George Morris, 291, City-road, London, E.C., stocks bookbinders' specialties in colours, varnishes, gold and silver leaf, etc., and holds a large stock of ruling ink powders, blocking powders, varnishes, gold leaf and gold leaf substitutes, marbling colours, albumen, glaire, gums, and all other requisites used in the book-binding trade.

Phillips and Sons, City-road, Manchester, make brass blocks for book binders, gold blockers, printers, and others, and also do half-tone writing for the trade.

ROLLER COMPOSITION.

"The Durable" Roller Co., Ltd. (E. T. Marler, Manager), Charles-street, Hatton-garden, E.C.—This company revolutionised the old formula for printers' rollers. The firm originated in 1886, casting rollers by machinery, and have brought the same up-to-date. "The Durable" rollers are known everywhere, and have taken the highest awards wherever exhibited, as at the International Inventions Exhibition, 1885, and at numerous Colonial exhibitions. Great care is taken in suiting the composition to the climate in which it is to be used. "The Durable" is sent out in slabs ready for use, with a set of instructions and a little sound advice in a work called "The Right Hand of the Press," which every practical man must appreciate. The rollers are equally adapted for fine art work, colour printing, or all-round ordinary printing; they are usable for remarkably long periods and always keep in condition. The Hoe Rotary Machines for the *Times*, *Daily Telegraph*, *Lloyd's News*, *Daily Chronicle*, *Daily Express*, *Standards* (Day and Evening), *Pall Mall Gazette*, and a host of similar machines have their rollers clothed by the company; and in a finer grade of work such as in the *Queen*, the *Gentlewoman*,

Strand Magazine, etc., and kindred high-class work, the company's rollers also come into play. Their advertisement appears regularly in this paper, and we may mention that their rollers have been used on our machines for printing this issue, we having used this make for over twenty years.

J. R. Thompson and Co., "Eclipse" Roller Works, High-court-lane, Leeds, are manufacturers of printers' rollers and roller composition, the fine qualities of which have secured for them numbers of entirely unsolicited testimonials, and for fine colour work they are all that could be desired. The firm also manufactures stereo mounting boards in mahogany, kauri, pine, and oak, at reasonable prices. Lists will be sent on application.

PRINTERS, ETC., TO THE TRADE.

Baylis, Lewis and Co., 5, New-street, Worcester, make a special feature of their "Worcester Artistic Embossed Circulars," and samples of these may be had through the wholesale stationers, or direct from the firm, a nominal charge of sixpence being made for them.

The Bell Punch and Printing Co., Ltd., London, supply all kinds of tickets, cheques, etc., consecutively numbered in books, packets, or rolls, suitable for railways, tramways, omnibuses, steamboats, concerts, theatres, football, cricket, and other clubs, etc., at extremely low prices. Those printers who can secure such work may profitably turn it over to the company.

Blades, East and Blades, 23, Abchurch-lane, Lombard Street, London, E.C.—Cheque printing under a special system known as "Protective" is done by this house. It is a chemical process, and protects against forgery. The firm executes trade orders (for quantities) by their special mechanical processes and water colour ink, doing only the best work in any colour, including black. The dependability of the house and the probity of its dealings are unquestioned.

Tom Fread, 76-78, Clerkenwell-road, London, E.C., is a well-known trade lithographer with an up-to-date plant and modern methods. He also does engraving, copperplate printing, etc., and is moderate in his charges.

Cooper and Budd, Ltd., McDermott-road, Peckham, London, S.E.—A well-known firm of printers, noted for their high-class work. They undertake every description of letterpress printing for the trade, and execute it at moderate prices.

G. Cornwall and Sons, Aberdeen.—An established and well-known firm of general printers and lithographers. A speciality is made of all kinds of labels printed in colours from block or stone, for jam preservers, biscuit manufacturers, tinned provision manufacturers and others.

East of England Printing Works, Norwich.—This house makes a speciality of Linotype setting at 6d. per 1,000, and is prepared to undertake other printing work at equally cheap prices.

Thomas Forman and Sons, Nottingham are litho and colour printers, whose work is well known all over the world. The firm's wall calendars for 1906 are of a very high quality, artistically and technically, and should be seen by all who can sell such things.

Philip G. Hunt, 100, Deansgate, Manchester.—Mr. Hunt supplies pictorial post-cards, in colotype and many other styles, from customers' own prints, at very moderate prices. Hand colouring is also done. The work is of good quality, and at the rates charged yields excellent profits to the customer. The London office is at 34, Paternoster-row, E.C.

The London and County Printing Works, Drury-lane, London, W.C., have special facilities for executing all classes of printing work, and a feature is made of the rapid binding of magazines, the firm being able to undertake almost any quantity with a certainty of delivering true to time. Printers who have emergency work and want help should note this firm's address.

Merritt and Hatcher, Ltd., 167-169, Upper Thames-street, London, E.C., with branches at Poultry, E.C. and Greenwich.—This is an old-established firm of printers, with the experience of fifty years in litho and letterpress. They work for the trade, and make a feature of prompt delivery and moderate charges. The firm has recently purchased the business of Mr. J. A. Rufus, Moor-lane, E.C., together with the whole of the plant and machinery, and now carry it on in connection with their other printing offices.

W. J. Middleton, Adelphi Works, Aberdeen, is a manufacturer of wall-pocket, desk, and blotter calendars. The "Camden" series is now ready in three sets and is very saleable. A liberal discount is given, and firms in districts not represented may obtain samples on application.

Percy Bres, Ltd., The Hotspur Press, Whitworth-street West, Manchester.—A feature of this firm's business is the setting up of heavy solid composition on the Linotype machine. They are prepared to do any amount of composition, from nonpareil to long primer, and supply stereo or electro plates. They also undertake folding, stitching and hot rolling for the trade.

Perkins, Bacon and Co., Ltd., South-wark-bridge-buildings, London, S.E.—This well-known house, founded in 1819, at Fleet-street, whose fine new works were described and illustrated in our issue of March 30th, 1905, have recently relinquished letterpress printing, and now confine themselves to their original trade of the siderographic engraving and printing of bank notes, postage stamps, trading stamps, security cheques, debentures, bonds, share warrants and certificates, and similar work, which they execute both by steel plate, litho, and surface printing as required. They make a special feature of trade engraving and printing in the case of the documents above mentioned, and the good standing of the firm is a guarantee that all trade orders will be strictly and faithfully carried out. Stationers and printers doing company work who do not keep their own engravers cannot do better than entrust their engraving to this firm.

Petty and Sons, Limited, Leeds and Reading, are printers to the trade, who make a speciality of picture posters and circular and bill work for various trades. The firm hold a large selection of copyright designs, and execute any order, large or small, with despatch. Features of their business are strict faith with customers, low prices, high-grade work, and speed.

Rommel and Jonas, Dresden, Germany, are printers of pictorial post-cards, view books, and such like, and will produce these goods from customers' own photographs. Samples and prices will be given on application to the firm.

H. Silverlock, 92, Blackfriars-road, London.—This is probably the largest firm in the world making a speciality of medical printing, and including that of chemists and photographers. Labels of all kinds are produced in extraordinary quantities and in almost infinite variety. They also undertake surface engraving for newspaper headings, electrotyping and stereotyping for the trade; and supply electrotypes of engine-turned ground-work and ornaments suitable for cheque tints, etc., and electro blocks for bookbinders.

J. Suttley and Son, 57-59, Newcomen-street, Borough, S.E., are account book rulers and binders, printers, perforators and numberers. They are also makers of tradesmen's pass books, season ticket and other cases. This firm's extensive new works were described and illustrated in our issue of September 24th, 1903.

D. F. Tayler & Co., Limited, New Hall Works, Birmingham.—All kinds of fine chromo-lithographic and letterpress printing are undertaken by this firm, and whilst they do a large business in posters, showcards, manufacturers' pattern books and labels, &c., they are specially noted for being producers of chromo-almanacs, and in this last-named speciality confine themselves strictly to the wholesale trade.

Taylor Brothers, Sovereign-street, Leeds.—Messrs. Taylor Brothers' specialties are first the chromo-sheet almanacs, noted for the variety and suitability of their designs, and their fine execution. Their 1906 series is now ready. In their chromo-card calendars and litho papers of all sizes and styles a vast business is done—new designs being issued at short intervals. Award Certificates for School and other purposes in a variety of designs are also supplied, as well as bordered blanks on paper and card in all sizes and styles, plain and in colours, advertising specialties, puzzle-cards, illustrated and comic handbills. The manufacture of paper bags in all shapes, sizes, and qualities is carried on upon a large scale. There is a series of "In Memoriam" cards. Transparencies for advertisements are a feature. Varnishing by machine and printing for the trade—letterpress and litho—is also undertaken.

James Upton, Cambridge-street, Birmingham.—Mr. Upton's name is well known as that of a printer of chromo almanacs of a high class. His extensive works at Birmingham have been established nearly half-a-century, and the various designs in calendars are always up-to-date, choice, and saleable. Mr. Upton does not sell his almanacs direct to the consumer, but only to printers and wholesale stationers, and is thereby assisting the trade.

Walter Watts and Co., Great Central Printing Works, Leicester.—Printers to the trade, who have special facilities for book or magazine work, and can undertake extensive printing contracts. Their works is one of the best equipped in the Midlands.

Wertheimer, Lea and Co., 46-47, London Wall, and Clifton House, Worship-street, E.C., are a firm of printers in French, German, Hebrew, and all foreign languages. They offer facilities for this class of printing which will be appreciated by the trade.

Wetherman and Co., Ltd., Enfield, execute art colotype printing for portrait book plates, picture reproductions, art catalogues, views, post-cards, and other illustrative work. The firm is noted for its high-class work. Art lithography in colours is also a feature of their business.

Widdowson and Co., Millstone-lane, Leicester, are trade printers who make a speciality of monthly date blocks for

calendars. Their prices are moderate, and the advantage of being able to secure ready printed blocks should be appreciated by every calendar printer.

Wilson's Music and General Printing Co., Ltd., 67b, Turnmill-street, London, E.C., a firm of music printers, supplies music stereo-plates to the trade. Their work is well known for its beauty and accuracy.

Wyndham and Co., Ltd., Bollo-lane, Acton, London, W., are letterpress, lithographic, colotype, and process printers, with facilities for turning out good work promptly and well. Estimates for trade work will be given on application.

BELTING AND BLANKETS, ETC.

William G. Monney, 10, Shoe-lane, London.—This house has for upwards of half a century made a speciality of blankets for letterpress and litho machines and presses, their dealings with the wholesale and export trade increasing year by year. The dependability and regularity of their goods are characteristic of the sterling qualities of the house. Leather belting and miscellaneous sundries for printers are also features of the business.

WOOD, PROCESS, COPPERPLATE, and STEEL PLATE ENGRAVERS.

The Arc Engraving Co., 4-6, Farringdon-avenue, London, E.C., have one of the best equipped establishments in the trade, and make three-colour, two-colour, half-tone and line blocks of the best quality. They are in a position to cope with rushes of work, and to turn out large orders in a very short time. They have also a competent staff of artists, making a special feature of touching up bad photos, and designing generally for process reproduction.

The Art Reproduction Company, Ltd., 3 and 4, Plough-court, Fetter-lane, London, E.C.—A firm of half-tone and line engravers, known for the excellent quality of their reproductions. They make a speciality of producing plates for photogravure work. The firm offer their services to publishers, advertisers, and printers, in the getting up of catalogues, announcements, or anything requiring fine illustrations. A feature is the supplying of fashion blocks of an up-to-date character, and for both sexes.

Baddeley Brothers, Chapel Works, Moor-lane, E.C.—This firm is a reliable one to entrust with seal engraving, die-sinking, and the supply and embossing of private and commercial stationery—they make a speciality of menu card, ball programme, and wedding card blanks for printers.

W. and G. Baird, Ltd., Belfast.—The printers and publishers of the *Belfast Telegraph*.—New and specially erected premises fitted with the latest American machinery are utilised by the firm for the production of process blocks in line and half-tone, on zinc or copper. Litho or copperplate transfers are a speciality.

The Dalziel Foundry, Ltd., 2a, Plough-court, Fetter-lane, London, E.C.—"Dalziel's Fine Art Hard Metal Stereotypes."—Under this title, some years ago, Mr. Harvey Dalziel introduced a new and improved process of stereotyping, which he designed as a substitute for electrotyping. The matrix material, a special secret of his own, enabled him to obtain the full depth of the original letterpress and illustrations in the moulding, and he produces hard metal plates from any printing surface in less than thirty minutes, that for quality and hardness to stand a long run will compare favourably with the best electros. For many purposes Dalziel-Stereos are superior to electrotypes. Where excellence of reproduction is required with great rapidity for illustrated publications, and especially for rotary work (where electros are generally impracticable), the Dalziel system is invaluable. It is a cold process, and does no damage to wood engravings, half-tone process blocks, or type. Forms are not floated, and type is sent back to the composing-room perfectly clean and ready for distribution.

James Dellagana and Co., Turnagain-lane, Farringdon-street, London, E.C., are stereotypers, electrotypers, and process engravers. The work done at the Viaduct Foundry is of a high quality, and speed in delivery is made a feature of the business. The firm has no other address.

The Direct Photo-Engraving Co., 38, Farringdon-street, London, E.C., is a well-known process house, turning out good work in line and half-tone, and undertaking every description of photo-process reproduction. The firm was established in 1882, so that its reputation is not a thing of yesterday. Prices and specimens are sent on application.

T. E. Downey, 63, Berners-street, Oxford-street, London, W., is a copperplate engraver, process block maker and electrotypist who does good work. He has a list of 5,000 stock electros, which will be sent free to any printer on application.

Freeman and Freeman, 23, Farringdon-avenue, London, E.C.—This firm of process engravers undertake all classes of work in line and half-tone. Wood engraving and designing are also done, and high-class work is guaranteed.

Gilchrist Brothers, Queen's-place, Clay-pit-lane, Leeds, are process engravers and photo-litho artists, photographers, retouchers, etc. They execute most excellent work in line and half-tone. Printers interested should send for their booklet.

Carl Hentschel (1906), Ltd., 182 and 183, Fleet-street, London, E.C., have fitted up one of the most complete ranges of studios and offices in the metropolis. It is equipped with every appliance which experience can suggest or a liberal expenditure can command. There are installations of the electric light whereby photographic work can be proceeded with on the darkest days, and right through the night. In addition, the company have a process of reproduction entirely their own, which has been adopted by some leading London illustrated papers. Additional extensive premises have been opened at the Goldsmith Foundry, in Goldsmith-street, Gough-square, E.C., where electrotyping and stereotyping are carried on with the most improved plant and machinery. The works are open day and night. Very fine three-colour blocks, by the Hentschel Colourtype process, are also turned out by the firm, which incorporates the Meisenbach Co., Ltd., of West Norwood, S.E., a pioneer house in the photo-engraving trade, a "Meisenbach block" being still a synonym for a half-tone cliché produced by photographic means. This branch has well equipped studios, and is thus able to produce process work of all kinds, including poster portraits, cover designs, half-tone photogravure, and blocks for the three-colour process. The work turned out is of the highest quality.

The London and Provincial Reproduction Co., Barry-street, Bradford, is a young firm that is coming quickly to the front in the matter of process work, and is executing some first-rate half-tone, line, and tri-colour work. A specialty is also made of photo-aluminium, photo-zinco, and photo-litho transfers, and commercial photography is a feature of the business.

Nops, Ltd., 19, Ludgate-hill, E.C., supply blocks, drawings, or photos for every description of illustrative purpose. The firm can show an extensive collection, and execute orders promptly.

S. W. Partridge and Co., 9, Paternoster-row, E.C., the well-known publishers, supply electrotypes for illustrative purposes, from the extensive and valuable stock of engravings created in connection with their numerous illustrated publications. Messrs. Partridge and Co. are not electrotype collectors and agents, but simply offer—the advantage of their great resources in artistic wood engravings, covering most fields of literature, and for the most part at one-tenth the cost of the original drawings. Local magazine proprietors should be quick to grasp the advantage of such a source of illustration.

M. Pogson and Co., 72, Market-street, Manchester.—This is a firm of high-class photo-engravers, designers and illustrators by all processes. They make a special feature of poster portraits, cover designs, combined line and half-tone, and three-colour blocks, and are well known for their coarse grain half-tone blocks for newspaper work, which are used by most of the leading papers in the north of England. These blocks may be printed on either rotary or flat-bed machines, and the specimens submitted to us were excellent. In poster grain work the firm excels, and the examples of large reproductions from small originals that we have seen were very fine. The firm was founded in 1889, and so has had a considerable experience in all classes of engraving work.

The Press Etching Co., 12, Wine-Office-court, Fleet-street, London, E.C., is an old-established high-class firm of photo-engravers that makes half-tone and line blocks for magazine, newspaper, book and catalogue work. The business was established in 1862.

C. H. Read and Co., 28, Paternoster square, London, E.C., are draughtsmen and engravers on wood, electrotypers, etc., and have a good selection of stock electros for trade purposes. The firm also makes a feature of touching-up half-tone and other blocks that may have been damaged in working, or otherwise.

W. F. Sedgwick, Ltd., 236-7, Blackfriars-road, London, S.E., make a feature of the best half-tone work in open, medium, or fine grain. They also undertake designing and artistic work in connection with the production of high-class illustrative or advertising work.

Richardson, Koolman and Isgar, Raquet Foundry, St. Bride-street, London, E.C.—This is an old-established firm of electrotypers, stereotypers and electro and stereo foundry fitters, with a long experience of trade requirements. Special attention is given to electro reproductions from half-tones, and prompt delivery is an important feature of the business. The firm also supplies metals and materials for electrotyping and stereotyping. They have extensive works in Great Dover-street, S.E.

Sheldon, Melloy and Co., 280, High Holborn, London, W.C., are fine art electrotypers who make a feature of reproductions in copper from engravings, etchings, and photogravures, from steel,

copper, or alloyed originals. Bright steel facing is a specialty of the firm, which has been established twenty-eight years.

Williams, Crowe and Nicoll, St. Mark's Foundry, 16, Bear-alley, Farringdon-street, London, E.C.—A firm of electrotypers, stereotypers, zincographers, and wood engravers that turns out good work. A special feature is made of touching-up defects in half-tone or other block in cases where they have met with injury.

PROCESS WORK REQUISITES, ETC.

Penrose and Co., 109, Farringdon-road, E.C.—This firm supplies all materials, chemicals, and apparatus for photo-zinco, photo-litho, collotype, and the kindred processes. They keep everything from the commonest chemical to the most elaborate sets of photographic apparatus.

PAPER BAG MAKING MACHINERY.

Bumsted and Chandler, Cannock Chase Foundry, Hednesford, Staffs., make a specialty of paper bag making machinery suitable for general printing offices, and designed to produce bags of varied sizes and weights from the sheet, as well as special machines making complete bags from the web of paper. The patented machines of this firm have recently been simplified and improved, and the statements issued concerning their capacity ought to be of practical interest to printers in all countries, where it does not always pay to stock a great number of sizes and classes of bags.

BOOK PUBLISHERS, ETC.

Hampton and Co., 12-13, Cursitor-street, London, E.C.—A firm of publishers who issue a useful trade manual in Mr. W. T. Wilkinson's "Photo-Mechanical Processes," which is a practical guide to the production of letterpress blocks in line and half-tone, collotype, and photogravure.

George Newnes, Ltd., 7-12, Southampton-street, Strand, London, W.C., are the well-known publishers of the *Strand Magazine*, the *Wide-World Magazine*, and other periodical publications. They publish a capital series entitled "Family Stories," and are always issuing new and popular books.

Robert A. Thompson and Co., Ltd., 5, Tudor-street, London, E.C., are wholesale export agents who supply books, magazines, periodicals, newspapers, music, fancy goods, stationery, paper, and all kinds of printers' supplies. The firm has branches in Sydney, Adelaide, Melbourne, Brisbane, Cape Town, and Johannesburg, and other important colonial cities, and has an established system of delivery to every Australian town of whatever size it may be. The house claims to have on its books the names of every newsagent and bookseller in Australia and South Africa, and with such a connection hold the field for their particular branch of colonial trade.

PHOTOGRAPHIC, ETC., PUBLISHERS.

Valentine and Sons, Limited, Dundee.—Their photographic publications are widely known, both at home and abroad, comprising as they do nearly every class of photographic work. This house makes a feature of high-class collotype view books, photographic Christmas, Birthday and New Year cards. They have introduced a series of collotype prints in colours, and are fully equipped to undertake this class of work, an excellent one for illustrative purposes, local or general.

G. W. Wilson and Co., 2, St. Swithin-street, Aberdeen.—The letters G. W. W., that appear so frequently on photographic views, are familiar to almost everybody, and are the trade mark, so to speak, of this firm's work, which comprises mounted and unmounted photographs of nearly every place of interest in Great Britain and Ireland, as well as local albums, lantern slides, etc., and their coloured view post-cards have a world-wide reputation. The firm also issue novel and high-class advertising calendars, with and without pictures, and have prepared a fine assortment of designs for 1906.

PAPER MILL ENGINEERS.

Bentley and Jackson, Ltd., Bury, near Manchester.—"Thou hast built a paper mill."—*Shakespeare*. This quotation dates back before the business of paper-makers' engineers was established, but if the firm of Bentley and Jackson had then existed, doubtless they would have pioneered the industry. This firm have built the machinery for some of the largest mills in Great Britain, Norway, Sweden, Germany, France, and the United States; an acknowledgment that they are good engineers, and well know how to plan a paper mill, and to properly equip it with the latest plant. They have made a considerable success of mills designed for India, China and Japan.

CARDBOARD BOX MAKERS.

Actiengesellschaft für Cartonagen Industrie, Dresden, are makers of cardboard box-making machinery of all kinds. They hold several patents in metal edges. One of their latest lines is the "Columbus" Lightning Press, which will cut, crease,

punch, print and emboss at one operation from a single die at the rate of 40,000 boxes daily. The British agents are Messrs. H. Stevenson and Sons, Ltd., Pollard-street, Ancoats, Manchester.

Arundel and Marshall, Penn Street Works, Hoxton, N.—This house stands well at the head of the trade as manufacturers of cardboard and folding boxes, stationery and drapery cases; and the immense variety of packages used in the wine and spirit, drapery, millinery, confectionery, grocery, tobacco, and drug trades; photographic plate boxes, metal-edged stock boxes, corrugated packing paper, dispatching tubes, and sundry stationers' requisites in the shape of expanding index files and document boxes. Messrs. Arundel and Marshall undertake the necessary printing and lithographing in connection with any of these productions. They employ some 300 hands, and are proverbial for promptitude and courtesy in the filling of orders. An illustrated description of their works appeared in our issue of September 26th, 1901.

PATENT AGENTS.

Boult, Wade and Tennant, 111, Hatton-garden, London, E.C., a reliable firm of patent agents, who may be depended upon to do everything possible in their clients' interest in the way of taking out patents, registration of trade marks, and kindred work. They publish an excellent book, entitled, "A Digest of British and Foreign Patent Laws."

AUCTIONEERS AND VALUATORS.

Frank G. Bowen, 62a, Aldersgate-street, London, E.C., is well known in the trade as an experienced valuer of printing plant and machinery. He also carries on a successful business as trade auctioneer.

Frank Colebrook, 146, Fleet-street, London, E.C.—Mr. Colebrook carries on the business of valuer for the printing, paper and stationery trades. Mr. Colebrook has had over twenty years' experience in printeries, four of these in responsible positions in the block-making world. He assists manufacturing houses in any line in the compilation and display of their own advertising catalogues or booklets, they printing them where they choose. Some old-established and very important printeries and firms supplying printers are among those who have used his help in this sense.

Wheatley Kirk, Price and Co., 46, Watling-street, London, E.C.—An old established house that has an extensive business amongst every section of the engineering, papermaking, printing and allied trades, in connection with auction sales, arbitrations and valuations, the latter being a feature of the firm's work.

Longley and McArthur, 31, New-bridge-street, London, E.C.—This is a firm of auctioneers and valuers that has a special knowledge of the printing, stationery, and allied trades. They are prepared to undertake valuations, sales, business transfers, fire assessment, arbitrations, etc., and from their long practical experience may be thoroughly relied on.

Walter Phelps and Son, Warwick-chambers, Corporation-street, Birmingham.—This firm of auctioneers and trade valuers are well and favourably known in the printing trade. They have an important business connection, and conduct sales and valuations in a thorough manner and with a view to the best interests of their clients, their services being requisitioned in all parts of the kingdom.

PRESS CUTTING AGENCIES.

Durrant's Press Cutting Agency, 57, Holborn-viaduct, London, E.C., supplies press cuttings for any purpose promptly, and at cheap rates.

Woolgar and Roberts, 58, Fleet-street, London, E.C.—A general press cutting agency supplying information and press cuttings upon any subject smartly, and at moderate prices.

WASTE PAPER DEALERS.

Hyman Brothers, Portland Wharf, St. Anne-street, Commercial-road, London, E., and 175, Kirkstall-road, Leeds.—This firm of waste paper dealers is always open to purchase any quantity of waste from printers, stationers, bookbinders, etc., and ensure speedy removal. Bags are supplied and sent free to customers. The firm are sole contractors for removal of waste paper to the Metropolitan Police and several railway companies. The Leeds premises are convenient for the Midland and north country trade.

WIPERS AND DUSTERS.

Jacobs Brothers and Co., Charlton-place, Islington-green, London, N., supply printers, lithographers, engineers, etc., with "wipers" of every description, guaranteed clean and free from buttons, pins, etc. Prices and particulars are sent free on application.

ADVERTISING AGENTS.

C. Mitchell and Co., 1-2, Snow-hill, London, E.C., are advertising contractors with a wide connection. Their "News-paper Press Directory" has been published annually for sixty years.

Neyroud and Son (late Rudolf Mosse), 14-18, Queen Victoria-street, London, E.C.—A firm of advertising agents that has international connections. It is old established, the office having been opened in 1875.

MISCELLANEOUS.

The Birkbeck Bank, Southampton Buildings, Chancery Lane, W.C.—This Bank, established in 1851, is too well known to need any reference from us. It will be fresh in the memory of our readers how well it withstood the three or four days run on its funds, during a panic. It is an establishment well suited to the needs of the small depositor and investor.

Charles Blackshaw, Caxtonia, Lightburne-avenue, Bolton.—Mr. Blackshaw is a successful teacher of typography. He has published a very useful Chart for printers' use, that shows the number of pages a given quantity of MS. will make in any specified size of type, and other information. He has also compiled an admirable little handbook that ought to be in the hands of all students and progressive printers. It contains over 200 questions for preliminary, ordinary, and honours students preparing for the City and Guilds of London and other examinations; a specially prepared series of questions on estimating, with model answers, and other useful information; the price is well within the reach of all, 6d., post free.

H. C. Chennell and Co., 19, Ludgate-hill, London, E.C., are buyers for several Australian and New Zealand houses of stationery, paper, printing materials, fancy goods, etc. They are open to act in a similar capacity for two or three good firms at the Cape.

W. T. Fletcher, "Ulster Herald," Omagh, Co. Tyrone, Ireland, publishes an excellent and useful book on "The Production of a Weekly Newspaper" in which thoroughly practical advice is given, and methods advocated that will save both time and money.

W. R. Perry, Ltd., Bush-lane, Cannon-street, London, E.C.—This firm, one of the oldest trade protection offices in the United Kingdom, makes status inquiries as to the position and standing of traders and others, and possesses registers at the offices, containing full bankruptcy and other information for Great Britain and Ireland.

F. E. Willcocks, 19, Bartlett's-buildings, Holborn-circus, London, E.C.—Mr. Willcocks, who has had over thirty years' trade experience, is prepared to transact business in London for British and Colonial printing and stationery houses that are not represented there, and to execute commissions, confidential or otherwise, and act as buyer for Colonial firms. He also conducts valuations, fire assessments, arbitrations, business transfers, etc.

"TOLD TO THE CHILDREN."—The charming series of juvenile colour-illustrated books under this title by Messrs. T. C. and E. C. Jack, of London and Edinburgh, has lately received several accessions. Among these may be mentioned "Gulliver's Travels," abridged by John Lang, and illustrated by F. M. B. Blaikie. Those who remember the freedom that the worthy Dean permitted himself to use in the original will probably be surprised to see how nicely this well-known work has been rendered into simple yet interesting language, eminently suited for child readers. "The Rose and the Ring," with reproductions of Thackeray's original illustrations, is another volume just out, and its pronounced early Victorian flavour contrasts pleasingly with Swift's Georgian style. Several other volumes are announced to appear during the present year.

PRESIDENTIAL PRESENTMENTS.—The election of a new President of the French Republic makes work for the printer in more ways than one. Whenever this important event occurs, it is customary for the Ministry of the Interior to obtain a good portrait of the incoming President, which is duly submitted to and approved of by him. Then a block is prepared by the photogravure process and a large number of copies printed, which are distributed throughout the country, to the Prefectures, Sous-Prefectures, Mairies, and other administrative establishments, where they replace the portraits of the previous chief magistrate. This has just been done in M. Fallière's case, excellent copies of the new President's portrait can be had for about 8d. We might do worse than adopt the practice in this country, as there would no doubt be a strong demand for good, cheap official portraits of their Majesties in place of the wretched caricatures one so often sees in the shop windows.

The death is announced, at the age of 82, of Mr. Thomas Dalziel, the famous engraver in wood and brother of Mr. Edward Dalziel, who died last year.

Flowers and Fruit Post Cards.

A Fine Selection of Natural Productions.

That the picture post card possesses valuable educational influences in some of the endless styles in which it is presented is one of its most commendable features. It undoubtedly spreads information and sometimes out-of-the-way knowledge on a variety of subjects in directions that might otherwise never be so favoured, and it impresses its message on the mind in that lasting and effectual manner peculiar to pictorial illustration. Some post card publishing firms adopt the omnium gatherum policy and endeavour to cater for every taste, while others specialise in one or maybe a few well defined classes with much success. Amongst these latter there is the firm of Deubner and Scholze, art printers, of Bautzen, Saxony, whose special feature is the illustration in natural colours of flowers and fruit. Among some specimens of these to hand there is a fine selection of roses, from delicate yellow-tinted blooms and pale pink to dark pink, rich bright red, and a deep crimson. Some are large single blooms, others smaller and in clusters, and some cards show a pleasing mixture of colours. Then other flowers reproduced include charming representations of chrysanthemums, snowdrops, tulips, sunflowers, poppies, narcissi, cloves, pinks, Canterbury bells, garden lilies, forget-me-nots, lilies-of-the-valley, violets, white and yellow marguerites, anemones, Solomon's seal, geraniums, rhododendron, irises, etc. There are sprays, too, of violets and lilies-of-the-valley, pansies and mignonette, heather and catkins, pine and catkins, snowdrops and palm, and a delightful grouping of wild field flowers, burrs and berries. A wreath, an anchor, and a heart-shape composed of violet blooms are the subject of three other cards. Some realistic sprigs of holly, pine and other evergreens are very effective. There is also a large selection of flowering plants in pots, such as marguerites, fuchsias, violets, and bunches of flowers in vases or fancy baskets, such as forget-me-nots, violets, hyacinths, lilies-of-the-valley, roses, azaleas, etc., all with a pretty harmonising coloured decoration to the pot, vase or basket. The fruit is realistically portrayed, and comprises two apples on a stalk with leaves, peaches, white and black grapes, cherries hanging from a bough, strawberries in various stages of their growth from flower to the full ripe berry, blackberries similarly presented, and a fine strawberry plant in pot with a beautiful cluster of luscious ripe fruit. This is quite a unique collection of post cards, the 230 designs of flowers and fruit, from which selection may be made, being reproduced direct from nature and nicely lithographed in rich colours. Samples may be had on remitting 8s. to the above address.

Printing in India.

That India has much to learn in the printing trade is shown by an interesting letter from a Calcutta gentleman. The description of how type-setting machines are repaired and operated by natives in newspaper offices and the pen picture of an Oriental type foundry are very amusing. The following is a portion of the letter:—

"The English Linotype Company has an office here and quite an elaborate exhibit of machines and general printing machinery. I spent an afternoon with the young manager and have an invitation to accompany him to the Government Printing Office when I have the time. He says that until recently he had no expert to look after and inspect the machines, and that he had a time of it with the native 'machinists.' In one office I visited with him (the Englishman) they had six. The machines were pretty badly bunged up, tied with strings and doctored with eccentric gewgaws. The native compositor receives two annas per thousand ems (4 cents per thousand ems). This paper also uses hand compositors. The measure is 15 ems; proofs are read three times, and a great loss comes in on corrections. The matrices are kept very dirty, fins showing between each letter, but no attention is paid to this—anyway to get there. We also visited a native (English) paper. They had three linotypes, also patched and battered up. The agent said he was himself surprised that they got any work at all out of them. The machines, he said, however, turned out more than any other office he had in India. Here I saw them making up the daily on the floor. He said that one day some one stole the column rules and the force whittled rules out of wood and got out on time (that is, any time before sunrise the next day). The press feeder sits on the top of the press and when the flies bother him he feeds with his toes, and is quite 'handy' with them. Proofs of ads or jobs larger than will go on a crude proof press are taken on the floor. The 'devil' using his bare feet in place of a proof planer. I will send you a good yarn about the craft as it is crafted in India at some later date when I can get some views.

"Yesterday morning I took a run down to the Oriental Type Foundry (agents for the American Type Foundry) and Sig Ullman inks. They also sell English-made type and manufacture a product themselves. Don't be deceived at the length of the name or the diversified stock to draw from. It took me a half hour to

locate them. I found 14, Chitpur-road; I found 14-1, 14-2, etc. I found 18, 18-1, 18-2. I knew I was getting warm, but had almost come to the conclusion that I had been cruelly deceived, when I found the name in two-line old English on a side wall of a narrow alley. A kindly native encouraged me with a gesture to seek further, and sure enough, at the end of the passage I found '18, Lower Chitpur-road.' Passing through the Coolie living quarters I ascended a rickety stairs, and on the second floor I passed into the business office. It was only 9.30—too early for Oriental business hours. I looked around the foundry (consisting of six small hand-casters) and through the ware-room of machinery, mostly Washington hand-presses in all sizes, from 8 by 12 to double crown. I could not help admiring the uniform dirtiness of the establishment. There was no chance for contrast between the front end and the back end. I could just picture the kindly face of Mr. R. W. Nelson, president of American Type Founders' Co., viewing his Oriental sales-room. He would smile. I suppose they are doing some business, however, for at the A. T. F. I met one of the baboos before leaving and he said they were doing well. He gave me a specimen book. I note that they sell at only 10 per cent. off the list f.o.b. Calcutta. Comparing this with English prices I shouldn't think there could be much trade in body type unless it be self-placing or some such novelty. The English eight-point sells at 36, the native-made at 32, and the American at 46.8 cents net."

The German Papermaking Parson.

A Pioneer in Wood Pulp.

It is tolerably evident from the researches made on the point that the late F. G. Keller, usually looked upon as the first experimenter in the direction of making paper from wood, was anticipated eighty years before by a Ratisbon parson J. C. Schaffer. He was an eminent German naturalist, born at Querfurt, in Prussia, on May 20th, 1718. His father, whom he lost when only ten years old, was a clergyman of no fortune, and his death imposed great privations on young Schaffer, whose love for science nevertheless induced him to get himself entered at the University of Halle. It is recorded that he, for a long time, subsisted entirely on fruits and vegetables, and went without a fire all through a severe winter, so poor was he. This mode of living injured his health, but he ultimately got a post as teacher in an orphanage, and afterwards (in 1738) another as tutor in the house of a rich agent at Ratisbon, who, however, died a year later. Schaffer then returned to Halle, and took Holy Orders. In 1741 he received a 'call' to Ratisbon, to take up an ecclesiastical post in the town and continued there for the rest of his life (nearly 50 years), being promoted in 1770 to the office of Superintendent, which he continued to hold till his death in 1790. He was a many-sided scientific man, being especially interested in botany and entomology, although optics, physics, physiology, wood carving and mechanics all came within his sphere of activity, and he was an expert in most of them. A number of books from his pen were published from 1752 onwards, including many elaborately illustrated botanical and entomological works.

His attention was directed to paper-making probably about 1760, and curiously enough the same thing that gave Keller (nearly a century later) his idea of the possibility of making paper from wood, also gave Schaffer his, i.e., a wasp's nest, and the use these insects made in it of vegetable paste or pulp for building up successive layers of paper like material. The second plate in Part I. of his "Versuchs und Muster" (i.e., Experiments and samples) of papermaking, published at Ratisbon in 1765, is devoted to pictures of the wasp and his nest. These publications on the possibility of making paper from then untried raw vegetable substances, as distinguished from waste manufactured materials originally made from vegetable fibres (such as rags, old rope, etc.), were issued at Ratisbon in small 4to form at irregular intervals, commencing in the year just mentioned, and were dedicated to various great personages, including the Empress Maria Theresa. Five parts had appeared by 1767, two of which (1765) were devoted to papers made entirely without the aid of rags.

Each part, and there was more than one edition of some, contains a number of samples of paper made from various plants, and there are also numerous crudely coloured engravings of the plants themselves. Some small pieces of textile fabrics made by Schaffer are included in one part, and in several cases the specimens of paper are painted on after the style of wall-paper, coated, or otherwise treated in order to show their adaptability to different classes of work. At the end of Part III. are five folding plates illustrating the portable wooden beating apparatus Schaffer made for the purpose of reducing his fibres to pulp, the principle of which, a toothed wheel actuating stampers in a trough as it revolved, was very ancient, although Schaffer made one or two little improvements. Part I. of the "no-rag" series had a rococo emblematic frontispiece by Maag.

*We gather from a brief note in a French contemporary that this fact has lately been referred to by a German periodical, the *Papier Markt*, in the course of an article on Schaffer, which we have not, however, seen.

representing this machine at work, accompanied by a vat, the various processes of manufacture, including making, drying, packing, etc., being represented as carried on by cherub-like children, mostly gracefully attired in—nothing. In 1772 Schaffer published a thin folio volume containing a dozen specimens of wall paper.

The fibrous substances Schaffer used in his papermaking experiments were very varied. There are 77 different samples in the five 4to pamphlets referred to above, and among these are small sheets of paper made from beech wood, willow wood, poplar wood, vine wood, mulberry wood, clematis stems, Cyprian asbestos, the ligneous parts of the stems of thistles (after lying 12 or 24 hours in lime, and being exposed to the air for a month), pine wood, pineapples, potatoes, and a variety of other materials, including the leaves, or skin, or pith of certain plants. In some cases these fibres were mixed with rags, in others not; a few were shown in both a coloured and an uncoloured state; or sized and unsized, etc. The different fibres used do not appear to have been bleached and thus would hardly pass muster at the present day, most of the paper samples presenting the appearance of rather coarse unglazed wrappings, although the toughness and pliability of some of them is evident. In judging them it must, however, be remembered that German printers, in the latter part of the eighteenth century, and indeed for long after, were not at all particular about the kind of paper they used, and thus it is quite common to find books—even those of some importance, such as editions of the Classics—printed on what would now be regarded as the vilest possible kind of paper, hardly fit to wrap firewood in, much less to print a book upon. So it is very likely that many of the papers Schaffer produced would be thought quite good enough for the local printers of his day, however far removed from the ideals of their contemporaries in other countries, much less those of the book printers of our own time.

Schaffer sent some samples of his vegetable fibre papers to the Society of Arts, London, in 1764, and was awarded a silver medal. The Dutch being at that time the most important and enterprising papermaking nation in Europe, Schaffer probably considered they would be interested in his researches, and accordingly an edition of some of his pamphlets on the subject, with samples, was published at Amsterdam in 1770. At the end of the fifth German part was also a leaflet in French, containing a list, in that language, of the various substances from which the samples had been made, for the benefit of those who, whilst understanding that tongue, were ignorant of German.

THE Advantages of Superheated Steam.

It is possible after steam has been formed from water at a temperature which is fixed by nature's laws, to further increase this temperature by the application of more heat. The moment the temperature is increased beyond the saturation point, the steam is said to be superheated. In this state, it has the properties of a perfect gas, and may be increased in temperature indefinitely without any increase in pressure.

The effect of using superheated steam in engines of whatever type, whether steam turbines or reciprocating engines, condensing or non-condensing, is primarily to describe the steam consumption and consequently the amount of fuel used. This is, of course, a direct economy in the operation of a plant, and the amount of saving will vary with the character of the engine.

Engines of the most refined type, such as those arranged with triple-expansion cylinders and provided with ample reheating receivers and steam jackets show a less percentage of saving than engines of simpler form, and of very much lower first cost.

A fair estimate of the amount of fuel saved in different types of engines with a moderate superheating, that is, 100 degs. F. to 125 degs. F., based on continuous operation of existing plants would be: slow running, full stroke or throttling engines, including direct-acting steam pumps, 40 per cent.; simple engines, non-condensing, with medium piston speed, including compound direct-acting steam pumps, 20 per cent.; compound condensing Corliss engines, 10 per cent.; triple expansion engines with steam jackets and reheaters, 6 per cent.

The Steam Main.

In practice it is found that when superheated steam is applied to the average mill plant, the saving in steam on the main engine is about the same percentage as the saving in fuel at the boiler. This would appear at first sight to be an impossibility, since of course it is true that a saving in steam does not necessarily mean a saving in fuel, because of the fact that superheating is only accomplished by the expenditure of a certain amount of fuel.

In applying superheated steam to a plant, it should not only be furnished to the main engine but also to the auxiliaries as it will be seen that they play quite an important part in the general result.

There are other advantages besides that of economising fuel to be derived from applying superheated steam to engines, such as dryness of steam and absence of

moisture in pipes and engines; the elimination of the separator in the pipe line, also of traps and drains; the relative efficiency of engines at light loads, and increase in boiler capacity, and in the capacity of steam pipes. The engine which is frequently started and stopped is more easily handled with superheated steam, and so much time is not required for warming up.

The Objections.

In considering objections to the use of superheated steam in engines, it will be necessary to draw a line between what may be termed highly-superheated steam, as up to a temperature of 700 degs. F. or more, and moderately-superheated steam, which would not exceed 500 degs. F. for a total temperature.

In highly-superheated plants also it is necessary to make provision by special construction of the engine, as ordinary valves, such as Corliss valves or slide-valves, are not found suitable for such very high temperatures. Poppet valve do, however, give very satisfactory results under these conditions, as they are of such a form as not to be distorted by heat and do not require lubrication. It is also found desirable in highly-superheated plants to provide a special form of steam distribution, by which the steam is carried through a reheater before being admitted to the high-pressure cylinder, the object being to at once temper the superheat of the live steam and impart a degree of superheat to the high-pressure exhaust. An engine of this design is relieved of the complication of steam jackets, which serves to offset in a measure the special arrangement of steam distribution.

We do not find these objections to moderate superheat, nor do we find any others. An engine with any ordinary type of valve will take steam at 500 degs. temperature without giving trouble, and will require only the ordinary grades of mineral oils for lubrication.

Moderation Best.

It is in moderate superheating that we think the greatest field for superheated steam in engines lies; and moderate superheat is obtained quite readily by combining a superheater with a boiler in its own setting and utilising a portion of the heat from the furnace gases to procure the superheat. The most desirable point for a superheater in a boiler setting is where the products of combustion have given off a small portion of their heat to the boiler surface, but before they have passed the greatest amount of heating surface. This gives a most efficient transmission of heat to the steam and does not interfere with the efficiency of the boiler.

The above remarks are from a Paper read in New England by Mr. E. H. Foster.

RAPHAEL TUCK AND SONS' POST CARDS.

—It may be truly said that of the making of picture post cards there is no end. Just how many thousands of different packets Messrs. Tuck and Sons have issued since they embarked in this branch we do not know, but the total must be enormous, and is constantly being added to. In the "Glossio" series, for example, a large number of portraits of stage celebrities has been recently put on the market, and are being well received. The popular "Oilette" series, too, has had many accessions during the past few weeks, among which we may mention a series of tasteful views of the most picturesque scenery of Devon and Cornwall, by Mr. H. B. Wimbush. Another well-known post card artist, Mr. W. L. Wyllie, has contributed two sets entitled "Father Thames," in which typical river scenes are dealt with in excellent style. At a penny each, these cards are very good value, and need no additional inducement to purchase. Nevertheless, Messrs. Tuck and Sons have already distributed large sums in connection with their Post Card Competitions, and will shortly announce a new one, in which prizes to the value of £500 will be awarded. This kind of thing, of course, greatly stimulates the already excellent sale of these goods, and dealers who like to take time by the forelock would do well to lay in an increased stock in order to cope with the large demand that will undoubtedly be experienced.

THE "PANEL-BOOKS."—A new series of "Classics de Luxe," recalling the charming editions of the eighteenth century, is announced for early publication by Messrs. Sibley's, Ltd. Of a handy shape they will be sumptuously produced and the publishers claim them to be "books to handle and read with real delight—books to live on with terms of close intimacy." The Panel-Books are to possess several distinctive features, including a specially designed Heraldic Book-plate, on which the owner can inscribe his or her name. Each volume will have full gilt edges, embossed and gold stamped cover, ornamental end papers, bookmark, coloured frontispiece and decorated title page. The type will be large and clear, and the prices for the respective bindings are 2s. 6d. net in art vellum, 3s. half-leather, 3s. 6d. full lambskin, and 5s. Persian leather. The titles chosen for the first volumes are "The Memoirs of Count Grammont," Byron's "Don Juan," Goldsmith's "Life of Beau Nash," George Eliot's "Silas Marner," Cressy's "Decisive Battles," Le Sage's "Devil on Two Sticks," Dickens' "Oliver Twist," and "Sheridan's Plays."

The death is announced of Mr. William Cudworth, the oldest Bradford journalist, who for over fifty years was a member of the staff of the *Yorkshire Observer*.

Established 1868. Contractors for a Quarter of a Century to H.M. Printing Offices, etc., etc.

Printers running their Machinery for Profit and Reputation combined should use "THE DURABLE" Rollers.

Printers are cautioned against the assertion that there is novelty in the so-called "Gatling Gun" style of making rollers, as we have used that identical system for nearly 20 years and call it "bottom pouring."

If you have our Price List turn to it and compare; if you have not got it ask for it (post free) and read it—this will be to your advantage.



"THE DURABLE"

NOTE.—Composition is sent CARRIAGE PAID and on Rollers we pay Carriage BOTH WAYS. ROLLERS FOR ROTARY OR EVERY OTHER CLASS OF MACHINE.
"The Durable" Printers' Roller Co., Limited,
 E. T. MARLER, Managing Director, Works: Charles Street, Hatton Garden, LONDON, E.C.

The St. Cuthbert's Paper Works.

**PIRIE, WYATT and Co., Ltd.,
 Fine Paper Manufacturers.**

MILL No. 364.

T.S. and E.S. Creams.
 T.S. and E.S. Azures,
 T.S. & E.S. Vellums & Antiques
 Plate Glazed Creams, etc.
 BLUES,
 SILURIANS,
 BANKS,
 Account Book Papers,
 Plate Papers,
 Cheque Papers,
 Pastings.



Metallic Papers,
 Chemists' Demy,
 Fine Plate Glazed and Super-
 Calendered Printings,
 Superfine White and
 Tinted Pulp Boards
 Cartridges and Drawings,
 M.F. & Plate Glazed Litho.
 Envelope Papers,
 Linen Finished Papers.

WATERMARKED PAPERS:
 Watermarks: "St. Cuthbert's Superfine."
 "St. Cuthbert's Linen."
 "St. Cuthbert's Note."
 "St. Nicholas Linen."
 "Waterleaf."

WATERMARKED PAPERS:
 Watermarks: "Charta Damascena"
 "364 Ledger."
 "Somerset Mills."
 "Original Damascena."
 "Avalon Superfine."
 "Rialto."
 "Old Gothic."

Telegraphic Address:—"CUTHBERTS, WELLS, SOMERSET"—"ANTIQUÉ, LONDON."

London and Export Offices: 20 & 21, QUEENHITHE, E.C.

**St. CUTHBERT'S PAPER WORKS,
 WELLS, SOMERSET.**

KAYE'S LATEST PATENT SERRATED STEEL SEAMLESS OIL CAN



Fitted with New Patent Thumb Button and Patent Seamless Spout.
 Also in Copper and Brass for Electrical Purposes.



Contractors to H. M. Navy, War Department, Home Office, and Indian State Railways.

SOLE MAKERS:
JOSEPH KAYE & SONS, Limited. Lock Works, LEEDS.
 AND
 93, HIGH HOLBORN, LONDON, W.C.



BADDELEY BROTHERS,

For DIES, COPYING and EMBOSsing PRESSES, &c.
 PLATE ENGRAVING, RELIEF STAMPING, &c.
 MENU CARDS, BALL PROGRAMMES, &c.

MOOR LANE, E.C.

TELEGRAMS:
 "BADDELEY,"
 LONDON.