THE PRERIES OURNALLS

The Consumption of Paper is the Measure of a People's Culture."

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Trade Topics.

Paper-Making in Spain - Manufacture of Cigarette Paper.

The art of paper-making was introduced into Spain by the Arabs in the fourteenth or fifteenth The remains of some of their mills exist to the present day. Spanish paper soon obtained a great reputation, and was shipped to all parts of Europe. On the departure of the Moors, the art gradually fell into neglect, but some specialties remained, one of which, that of the manufacture of paper for cigarettes, has become the leading branch. There is such an enormous consumption of cigarettes in Spain and her colonies that there is a large and regular consump

tion of this paper.

Two regions—Alcoy in Alicante, and the province of Catalonia—are especially engaged in this manufacture; the productions of the former being much superior to those of the latter, and the beauty of their water-marks can hardly be sur Manufacturers attribute this superiority to their using stampers, the beating engines being only employed for fine papers. The process is very simple; white rags are sorted and cleaned, but not boiled; they are then carefully stamped, washed and slightly bleached. By this system the fibres are better separated, and are not cut up as in the case of beating.

The Catalonian paper is very strong, but not so fine as that of Alcoy, although some smokers prefer it as being softer and less irritating

In the Basque provinces a kind of cigarette paper is prepared from straw. It is difficult to manufacture and very dear, but is in good de-

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mand in some markets.

The manufacture of writing papers is considerably developed, but not to the same tent as in other countries, although the Government prescribes domestic paper for its own

The paper-making machine was introduced in 1845, and there are now large mills at Gero-na Tolosa, Sarajossa, and at Olot in Catalonia, where the best qualities are produced. Most of the mills are constructed on the French model. The paper machines, though well built, have defective drying arrangements and weak calenders. On the other hand, rags are abundant, and their export prohibited; there is plenty of water power, and labor at moderate pay, and as the consumption is in excess of manufacture there is always a ready market at paying prices. The political condition of the country and the defective railway communications do much to neutralize these advantages.

The paper-makers are now producing very good cigarette paper from old hemp sandals, material which is very cheap and practically

Paper Making in France-Taxes and Difficulties.

The position of paper manufacturers and their kindred interests has always been a difficult one in France. All taxes and restrictions on home industry would, one should imagine, be avoided as much as possible by what are termed paternal governments. The disasters of France arose in no slight measure from a want of popular intelligence, and this from the inferiority of French publications and the aversion to reading masses. It has always been a surprise to Englishmen and Americans that among the score of daily papers published in Paris there is not really one which comes up to our ideas of a The telegrams are meagre and newspaper. sometimes manufactured; there is little news from home or abroad; the markets and genera commercial interests are complelely ignored, and the reader has to content himself with some exceedingly thin, if not smutty, goesip and an account of a first representation of a theatrical which took pla ce some nights previously But, in addition to the distaste of the French to advertise their wants, there are other cause for this inferiority of their newspapers. Outside continually recurring suppression of papers by the authorities, there are the onerous taxes which are laid on the paper industry, and which tell even on the quality of the manufacture. The paper duties are fixed as follows:

1. Cigarette paper, foreign correspondence, parchment, letter paper of all kinds and sizes, 15 fr. per 100 kilos

Note paper, printing and drawing papers, nusic and white hangings, colored and marbled papers for binding, 10 fr. per 100 kilos.

Card and board papers, envelope, wrapping blotting and kindred papers, 5 fr. per 100 kilos. A further tax of four per cent. is ordered to

be levied by an act passed December 30, 1873.

As an offset to the abolition of the stamp on

newspapers, a special duty of twenty francs per 100 kilos, is levied on printing paper. There are, therefore, two taxes-one paid by the manufacturer, and the other by the printer-and in order to collect these duties the Government, as in the case of a distillery in this country, has to maintain a constant surveillance through its officers. The precautions and restrictions to which mill-owners have to submit remind one of the feudal ages.

A paper manufacturer, according to the decree of 1871, must give the authorities a complete inventory of his establishment, the manufacturing processes and the character of his products. Every machine and vat must have a number legibly painted on it, and no change can be made in the plant or process of manufacture without a notification being previously made to the tax office. In addition to this the authorities may insist on the doors and windows of the mill being furnished with heavy iron screens, that there shall be only one entry habitually open, and that two locks shall be affixed to the other doors, the key of one to remain with the tax collector.

The natural result of the heavy duties and surveillance is now being seen; no new paper mills are projected, and no improvements are

It might be supposed that the consumer pays the duty, but this is not exactly true in the paper industry. The workman suffers in the first instance by having his wages lowered. The consumer in turn has found a way of not paying any more for his stationery; he contents himself with a lighter paper of poor quality, as those having correspondence with France can testify. In the case of the thousands of unsold books and papers there is of course no consumer, and the fore the tax is a definite loss to the publishers. er, and there

Paper is so important an accessory in many industries that these in turn find themselves at a disadvantage with foreign houses. Some of the large ribbon factories of St. Etienne use 100,000 francs worth of paper annually, while artificial ower-makers, gilders, fan-makers, &c., employ it extensively: for what are called articles de Paris, 70,000,000 kilos are consumed. The greater part of these manufactures are exported, but not coming under the head of paper goods, there is no drawback allowed.

The tax on printing papers only brings some 5,000,000 francs clear to the revenue, owing to the heavy expenses of collecting drawbacks, &c., and on this account alone it is not likely that the Government will offer much opposition to its

Paper Imports to Great Britain.

The Paper-Makers' Circular has been going over the ground traversed by the Board of Trade returns, to find out how particularly British manufacturers are affected by the supplies of foreign paper, and the result of the investigations is embodied in the following statement:

"It will probably interest many of our readers to have put before them, 'cut-and-dried,' so to speak, some authentic information as to the amount of paper that our foreign competitors in the aggregate send to us, and the particular quarters from whence it is received. We say cut-and-dried,' as we have had to extract it for the convenience of our readers from the very voluminous accounts furnished by the Board of Trade, of our vast commercial dealings with the whole world; and in doing this we have been very forcibly reminded of Sam Weller's simile, of going through a great deal to learn a little, as this worthy man's notion of learning the alphabet, for we have had to wade through a great deal to obtain a very little; as although perhaps in the minds of many engaged in the trade there is nothing like paper, yet in comparion with the great staples of iron, coal, wool, cotton, produce, &c., paper is but an insignifim in the accounts with the world-hence it stands out with no gigantic figures that appeal by their prominence at once to the eye of the

Taking the accounts for the year 1875, which is the latest year for which these accounts are made up complete, we find the first place that is ned is the little Yorkshire port of Goole, which figures for the receipt of 44 tons of paper: we are in doubt if this would be really paper or dried pulp declared as paper, for the purposes of the account; in either case it would be pulp for some of the Yorkshire mills or perhaps c news for some of the local newspapers, brought by some vessel from the North scaports, that, blown out of her course has been unable to make her proper destination. Next in importance in the North comes Hartlepool for 52 tons, followed by Newcastle for 146 tons, succeeded by Grimsby for 265 tons. Then we have Liverpool for 660 ons, and completing the northern ports, last, but by no means least. Hull for 3 417 tons. It is impossible to say, as the accounts do not distin-

guish in these respects, what proportions are paper proper and how much are pulp in the shape of dried paper or boards; we expect that a very large proportion would be of the latter kind. Beginning in the opposite direction, we find Southampton down for 84 tons; this would include no doubt a large portion of the fanciful papers sent from China and Japan more as curisities than as papers intended for general use We have seen several consignments of leather paper—papers made exactly resembling our fin hard grained morocco, and small-sized small hands, having the color, glossiness, and very nearly the strength of silk; ladies' paper pockethandkerchiefs and similar fancy articles. Then come the southeastern ports, which receive the great bulk of the German, Belgian and French papers proper that now compete so actively with our own. Newhaven shows a receipt of 885 tons, Dover 1,163 tons, Folkestone 1,329 tons, and last of all, as receiving paper from every part of the civilized world that produces it, and standing out as it does in almost everything far and beyond everywhere else in its gigantic proportions London, for tons, all to itself.
"Finally, we have all the stray parcels of all

kinds from everywhere lumped under the one head of 'other ports' for some 7,280 tons.

"Anyone who will take the trouble will find these several quantities to 'foot up,' as the to the enormous quantity 38,133 tons; and comparing the quantity as giving an idea as to its effect upon our own production, it may be stated as about equal to the production of thirty-eight paper mills with an outturn of twenty tons per week-a formidable proportion for our makers to have to contend

Paper Manafacture in Sweden.

[Concluded.]

WOOD-PULP PAPER.

In the year 1846, when the German engineer H. Völter began his experiments of using, instead of vegetable fibre from flax and cotton, wood fibre, which he prepared by quite a simple expedient, here was the beginning of a branch of industry which is already of great importance to Sweden, since our country possesses just what is chiefly required for it—abundant supplies of fir-forests and large water-falls. The first factory established on this Völter's system was at Trollhättan, in 1857, and for ten years was the only one of its kind, until here and there in the country they began to establish others, so that in 1870 there were six; but from this time their erection was very rapid till 1873, when there were twenty-seven wood-pulp factories already completed or nearly so; but since that time nor have been erected.

This quick development is the more noteworthy as the erection of many of these establishment has cost several hundred thousand kr.

The observations and inventions made in this branch of industry have not been unnoticed, and therefore the manufactories are calculated to be worked, partly on the chemical, and partly ou the mechanical method. The chemical method is as yet so new that it is difficult to say what development it will enjoy. It is certainly true that in this way a better and more fibrous pulp is obtained, but in proportion to the ground pulp it is also dearer, especially since caustic soda, which is needed for the manufacture, has considerably risen in price. The grindstones that have hitherto been employed in the mechanical method have as yet been generally obtained from Germany, the cause of which cannot be our country, but rather at the new established works they have wished to avoid experiments at first, and hence the stones have been brought from such places where they have already been practically tried. All the machinery, on the other hand, is now made in the country.

The Swedish wood-pulp manufactories extant at the beginning of 1873 may be divided as fol-

I Mechanical such of the new works where 100 horse-power is calculated for each grind-

(a). Eleven Völter's manufactories with vertical grindstones, and the supplying of the pieces of wood by a screw mechanism. Of these, the oldest (Trollhättan) has twenty stones, of which the greater number are small; but besides, there are several large establishments with from five to six grindstones of from 5 to 514 feet in

(b). Two Hartmann's with small vertical grindstones, and supplied by weights. (c). Four Siebrecht's, with large horizontal

grindstones, and supplied by hydraulic pressure. II. Chemical, generally provided with two boilers: Ten manufactories constructed on different methods (Sinclair's, Lee's, Fry's, &c). The boiling is generally done with caustic soda, in weight about twenty-five per cent. of the wood; | des Fabricants de Papier.

besides, the so-called half-chemical method is applied, consisting in boiling or steaming blocks of wood, and then grinding them in the usual manner. Some of the more recent paper manufactories make from such pulp a kind of paper very good for wrappers and sheathings.

The great expectations that were reasonably attached to the paper-pulp industry have, dur ing the last few years, not been quite realized, the cause of which may, in the first place, be ooked for in the economical reaction which, in many parts of foreign countries, followed upon the enterprising activity that distinguished the period immediately preceding the year 1873; besides, it ought perhaps, not be concealed, that there are still some technical difficulties for the chemical manufactories to conquer. It has been calculated that all the Swedish manufactories ought to be able to produce about 480,000 centners of pulp annually, of which 350,000 centners should be mechanical, and 130,000 chemical, but as yet not more than half of that quantity at most has been produced in any year, which, nevertheless, represents a value of several millions of kr. Of the paper-pulp, part is used for the paper manufacture in the country, and part exported (158,700 centners in the year 1873; 118,100 centners in 1874), mostly to England.

Wall-paper is manufactured in from fifteen to twenty larger and smaller manufactories, and the quantity manufactured in the year 1873, according to their returns, was upwards of 1,333,-

Of playing cards, were manufactured in 1873, in four manufactories, 145,400 packs. Every pack of cards is supplied with a 75 öre (-\$0.21 gold) stamp, and the sale of unstamped cards is prohibited on pain of forfeiting 75 kr. (-\$20.83 gold). Whoever plays with such cards is liable to a fine of 7.50 kr. The stamp-duty, with which formerly the great orphan asylum was mainly supported, is now paid directly to the exchequer towards the expenditure for the orphan asylum and other charitable institutions.

Etui-articles, such as small cases and apothe cary's boxes, &c., are manufactured on a large scale, by the Joint Stock Lithographic Company, at Norrköping, as well as elsewhere. They also nanufacture colored and stained paper, &c.

New Mordant for Fixing Colors.

TRANSLATED FOR THE JOURNAL.

It is well known that coloring matters which are soluble in water can absorb pulverable bodies of a certain nature with the same avidity with which the fibres of textiles take up the so-called substantive colors. It has been proved that starch will retain very well the aniline colors, so that by using cold solutions of the latter on starch flour very good colored powders can be obtained, and which can be variously employed in the manufacture of wall papers. We know also that the colorless precipitates which are formed in a liquid in which a coloring matter has been dissolved absorb considerable quantities of these colors. Very beautiful results are obtained with sulphate of baryta in liquors holding aniline colors in solution.

All these precipitates have, however, only a econdary interest for the dyer, and up to the present time we have found no pulverable or porous body which acts exactly like the filamentary matter on the substantive and adjective

From some experiments of M. Reimann in dyeing cotton with aniline colors he has shown the extraordinary absorbing power of silica and analogous bodies for coloring matters. combination of silicic acid has been colored by substantive matters.

Attempts have been made with more or less success to impart the brilliant colors of aniline to the mica powder which is used for drying ink Precipitated silicic acid, which is separated from a solution of soluble glass by the addition of an acid and which is transformed by desiccation into an impalpable white powder, will prove in the most striking manner, brought into contact with solutions of substantive colors, its property of taking up the color ing matter contained in them, and with adctive colors, after being heated with a mordant, it will dve exactly like textile fibre.

The substantive colors of aniline combine so readly with silica that the latter appears to dyed permanently. When we shake silicic acid, which has been precipitated and carefully washed, in a glass containing solutions of fuchsine and aniline blue and violet, the acid soon changes to a deep color, which it retains even after washing. It is only by boiling or treating with concentrated alcohol that the color appears. Dyed textiles do not prove so fast when subjected to the same process. This new mordant is very cheap, and will doubtless give some beautiful novelties in wall papers.—Journal

Correspondence.

British Notes.

[FROM OUR REGULAR CORRESPONDENT.]

15A PATERNOSTER ROW, LONDON, E. C., July 28, 1877.

I cannot say that any change has taken place in our trade. About this time most of our paper-makers are busy stock-taking. This operation in most houses must now be over, and business once more is going on as before. I do not hear of anything either interesting or novel in trade

I saw several paper-makers at various times during the past week, but they, one and all, spoke very despondingly of prospects. One maker said so far as he was concerned there was no trade at all, and he might as well close. doubt there is a severe pinch just now, but we must all hope for the best, at the same time being prepared for the worst. I have a little news this morning from the North, but you will see that it is of a particularly gloomy character. I don't think war news affects business much now, as we have settled down to be spectators of a struggle which is likely to be prolonged for some time to come. This morning advices in the papers indicate some active measures on the part of our cabinet. This step will, doubtless, produce great anxiety as to our policy, and trade is certain to be influenced by any measures which tend to engage this country in the conflict. Our markets are not yet affected and remain as last week. Coals and chemicals are dull and fibres scarce. This statement seems to embrace

the entire report of raw materials.

There have been very heavy rains in the north of England during the past week, and all the rivers are much swollen. At Hall-ith-wood Paper Mill (near Bolton) the water rose last Sun day evening to the wet felt, but work was pro-ceeded with on Monday. This happened on the River Eagley. Higher up on the same river is the Belmont Paper Mill (Spencer & Co.), and there work was suspended, owing to the flood. Eagley Bridge Paper Mill is on the same river and escaped damage. Some years ago, they were badly flooded. Consequently they built a wall along the bank which effectually keeps away the

Standish Paper Mill, near Wigan, also had to suspend work on account of high water which entered the works.

Grimeshaw Bridge Paper Co. (Lim.), near Darwen, have discharged one set of men and are now only running day shift. It is reported that there is a little pecuniary difficulty. If so, the proprietors are very wise to curtail expe I hear White Ash Mill is going.

A correspondent sends me the following: From what I can gather, Fenniscowles' Paper Company have expended more money upon their new buildings and machinery than they are in possession of, and are unable to meet the calls of their creditors. A meeting of shareholders is to be held to-day or early next week to try and raise the required amount, about three or four thousand I believe. If they cannot raise it in this manner I hear they will try to mortgage it for the amount. The company is doing well as far as regards orders and turning out work, and it is held that if the amount can be raised they will comfortably realize 10 per cent.; but should the money not be raised, and the creditors re-fuse to hold back, the company will most likely be wound up and sold, and fall into the hands of a few of the larger shareholders. They will keep the mill running, if possible, for fear of losing their orders. They have an order for the Telegraph which fully keeps the large machine going (about thirty tons per week), besides several Scotch (web) papers. I shall be able to say more next week, for then its fate will be de

So says my correspondent, and I trust that the company will manage this little affair all right, and comfortably realize 10 per cent. It is a great pity that a company doing good busine should come to grief in this way. I hope I may hear of a successful meeting.

Star Paper Company is going on very well indeed, but, they too, have outstripped their oundary line and exceeded a convenient capital. When they get on a bit they will start their

There is no doubt it is dangerous to create uneasy creditors by overstepping a moderate workcapital. If companies were to set aside a portion of their profits as a reserve or enlargement and extension fund, and be content with smaller dividends, there would be much safer business abroad. When a profitable which is doing good, steady work wishes to in crease its operations, it would be far more advantageous if there was a fund on the spot instead of having to raise fresh capital. But, unsee this. Dividends are all they care about. HOME MARKETS

Coals.-There was a steady sale this morning. and previous rates were fully maintained. Prices at the close of the market were as follows: East Wylam, 17s.; Holywell Main, 17f.; Ryhope Hartley, 17s. 3d.; Wallsend-Haswell, 19s.; Hetton, 19s.: Hetton Lyons, 16s. 9d.: Hawthorne's, 9d.; Lambtons, 18s. 6d.; Original Hartle pool, 19s.; South Hetton, 19s.; Tunstall, 16s, 9d.; East Hartlepool; 18s. 9d.; ships at market, sold, 15; contracts, gas, &c., 10-25; unsold, 2; at

Fibres,-Prices exactly the same as last week Chemicals.-Cooper, Bros. & Co., Newcastleon-Tyne, say: "Our market has experienced very little change this week. Soda ash, bleachpowder and bicarb. soda continue dull, whilst soda is steady. Prices are: Refined alkali, 50 to 52 per cent., 2d. per per cent., less 5 per cent. discount; soda ash. 48 to 52 per cent., 11/4d., less 21/4 per cent. discount for prompt delivery; for delivery over 1877, 1%d. per per cent., less 5 per cent.; soda crystals, gross, £3 12s. 6d. per ton; bicarb. soda, £9 10s.; bleaching powder, 35 to 36 per cent., £5 10s., less per cent. discount; English antichlor., £12 5s.; Jarrow caustic soda, 70 to 74 per cent., £17, 4 per cent. discount."

In Liverpool prices are somewhat lower, with limited demand. For f. o. b. Liverpool, less 21/2 per cent. discount: White caustic soda, 70 to 72 per cent., £14 5s. to £14 10s.; white caustic soda, 60 to 62 per cent., £12 5s. to £12 10s.; cream caustic soda, 60 to 62 per cent., £11 17s. 6d. to £12 2s. 6d.; caustic soda bottoms, £8 15s. to £9; bleaching powder, in hard wood casks, 35 to 36 per cent., £5 2s. 6d.; in soft wood casks, £4 17s. 6d.; soda ash, 48 to 52 per cent., 1%d. to 1%d. per per cent. Prices for other chemicals: Sugar of lead dull; white, 37s. 6d. and brown, 26s. 6d. per cwt. Bichrome held at 41/d. Alum steady; lump, £7, and ground, £7 10s. per ton. Aluminous cakes, £4 5s. per osin—common offers at 5s. 3d. per cwt. W. F. C.

Philadelphia Notes.

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA. August 9, 1877. Although there is a falling market in many lines of paper stock, there is a marked improve ment in book papers of a superior grade, and a steady demand, a square, honest article commanding relatively a better price than an inferior grade made of poor stock, weighing heavier, but not giving equal satisfaction. One of our leading publishers tested this fact in ordering a superior article, weighing 68 lbs., instead of an 85 lbs, paper previously used of the inferior paper. His book was equally thick, more atisfactory in appearance, and a saving of \$250 on an order of four tons.

Charles Magarge & Co. report their two mills on the Wissahickon and the Hanwell mill running full capacity on plate and book papers, white and tinted.

W. W. Harding, who took a large Government contract some months ago at such exceedingly low rates that many felt sure would prove a heavy loss finds at the present low prices of stock and material that a fair margin of profit will be realized, besides enabling him to run his mills constantly and with full force, producing upwards of five tons daily.

J. G. Ditman & Co. are doing a brisk trade in every department of the paper business, book and plate papers commanding a fair price, flat papers average sale, and cheap papers ruling very low. The extensive variety and large stock carried by this house make it a rendezvous for all classes of buyers. Mr. Ditman has been favored by calls from a number of leading paper manufacturers and dealers from other cities, and is always happy to extend courtesies to all

The great railroad strikes have hitherto inter rupted trade with the West and interior of the State, but as it is now virtually at an end, increased orders are being received and will continue. Many think it could not have culmin at a more conspicuous time, and a better feeling will hereafter exist.

T. Seymour Scott & Bro. are making cream flower sack manilla paper of an excellent quality and very tough, and are running full capacity about two tens daily. They are also making oilcloth carpet papers, and are making im provements which will enable them to largely ncrease the manufacture and also improve the stock.

Jessup & Moore are doing their age business, but report trade dull. Martin Nixon & Co., and Server & Cartwright anticipate an increased fall trade.

J. & J. S. Barber lost about \$5,000 in the recent fire in their store room. Trade fair and likely to increase as the season advances. Rates

Garret Bros., Bowers Bros., and other manilla paper-makers on Decatur street, are doing a good business, and are preparing for an increasing trade.

Megargee Brothers are moderately busy with orders, which will doubtless largely increase as the fall trade opens

The Nescochague Manufacturing Company, in addition to its own products, is selling flat pa-

James M. Wilcox & Co. report trade quiet just now, but prospects good.

The Hampshire Paper Company lately sus

tained some loss from an overflow in the upper room of its building. M. L. Bulkley, of J. G. Ditman & Co., returns

to-day, after a few weeks' vacation at the sealooking well. Alfred Ireland is again at his post, after an ex-

ended tour in England and the continent. He has a fine line of Marcus Ward & Co.'s papers

Mrs. John D. Marker died on August 7. Charles Knight, Jr., well and favorably

tanately, it is impossible to make investors known in the paper trade, died on July 26, aged 52 years. He commenced the paper busine 523 Commerce street, about 1860. Reeve L. Knight, Jr., will continue the business

A. W. Carr, of Carr, Bros., South Manchester; Thomas H. Tolson, of J. A. Dushane & Co., Baltimore; E. T. Mudge, Dobler, Mudge & Chapman, Baltimore: Charles H. Mullin, of Mount Holly; C. O. Chapin, of Springfield, Mass., are in Philadelphia.

There are upwards of two hundred firms in Philadelphia engaged in the manufacture and sale of book, news and manilla papers, besides publishers, booksellers, stationers, &c., &c.

As there are many trade items delayed until the last moment, I will esteem it a favor if the Philadelphia firms will send in to 900 Chestnut street latest reports for future letters by Thurs day of each week. I will call on any firms desiring to communicate personally at any siring to community they may designate.

Blackley Blue.

Blackley blue is solely manufactured by L. J. Levinstein & Sons, who introduced it first to the paper trade in the year 1870. The process of its nanufacture is yet kept as a secret. It derives its name from the village of Blackley, near Manster, in England, where the extensive works of this firm are situated. On account of its superiority in shade to that of ultramarine and Prussian blue, and of its comparative cheapness its consumption soon became general. There is indeed scarcely a maker of news, common printings, or long elephants in England or upon the continent who has not already substituted ultra marine with Blacklev blue. The introduction of it into the colored paper trade has not been less successful, for all classes of bright and deep blue grocery, bill poster and cap papers, &c., which have been seen of late years and which owe their beautiful color to the Blackley blue.

The claimed advantages of this color over ultramarine are its considerably lower cost and superior shade. One pound of Blackley blue is said to equal in strength 10,40 lbs, of the very best ultramarine, and hence to be fifty per cent. cheaper than the latter. In using, it must be observed that the pulp ought to be as free as possible of chlorine. If anything, the pulp ought to be slightly sour; therefore it is advisable to use a rather extra quantity of alum. Another advantage is that of its handiness in using and also in st cases dispensing with the use of fuchsine, which color is necessarily employed with ultra marine. Old paper that has once been tinted with Blackley blue can be much more evenly tinted when reworked than if ultramarine has been employed. This advantage is of universal value where large quantities of old refuse paper are used for making common news, &c. Another great superiority it is said to possess over the ultramarine is that while paper tinted with the latter color invariably turns after exposus the atmosphere to a yellowish tint, Blackley blue retains its original bright hue.

It is superficial to dwell at any length upon the merits of this product, as its very large consump-tion is its best recommendation. In using Blacktion is its best recommendation. ley blue it is only necessary to add its clear solution to the pulp, and it is completely soluble in hot water. The manufacturers devised, also, process several years ago for dyeing paper with this blue. This process is yet without any ma terial alteration in use for dyeing grevs and fancy blues. The pulp is first uniformly dyed with Prussian blue in the usual manner and then the solution of Blackley blue is added. The proportion to the best Prussian blue is usually half half, one ounce of Blackley blue being exactly equal in strength to one pound of the very best Prussian blue; therefore, if, for instance, taken in the old style of dyeing, say eight pounds of paste blue for one cwt. of paper, take only four pounds of Prussian blue and four ounces of Blackley blue.

Lace Paper.

The manufacture of what is called lace papers s an important branch of trade in Germany. and even in these times of general depression has maintained its activity. The uses of these papers are exceedingly various; it is the general custom in Germany to decorate ceilings, fire-places and the like with them, while confectioneries, bouquets, &c., are put up in gay colored wrappers.

The great difficulty in manufacturing thes papers is to produce a surface which will exhibit, as in real lace, the fine gradations of lines. Small lead hammers are used for punching on The holes and edges of the desired pattern are raised on the stamp, and the paner being laid on it is hammered until the hollow surfaces project on the other side.

The paper must be uniform in strength and sizing, and also in color, or it will appear as if composed of different kinds. As it frequently happens that the edges of the sheets are no equally pressed, care is taken to avoid any folds or creases in the middle. From two to four sheets are stamped at a time, and unless they have been rubbed with talc they must be closely pressed together. Some manufacturers have the stamping done in penal institutions, but the advantages of this, if any, are not very appar-

ent. The appearance of the paper is very much improved when the sheets are pressed, the impression being much clearer, but for most purposes this is not usual. For bouquets card paper must be used, and the centre replaced by pasting a piece of glazed card so as to form the funnel, but previously a cross must be cut out of the centre so as to admit the stem of the bouquet. Some of these bouquet-holders have from twelve to twenty-four plys, and are made in imitation of ferns, &c. There are some fifty manufacturers of these papiers de luxe in Berlin, and they are now introducing them for various ornamental purposes-as borders to chromolithographs, &c., and bringing them out in colors.

Lose no time in executing your resolution.

Manufacturing News.

EASTERN STATES.

S. Y. Beach, Seymour, Conn., is running his mill on half time.

The mills at Bridgeport, Conn., are suffering from low water supply The Clinton Paper Manufacturing Co., Clin-

ton Conn., is on half time. H. E. Rogers, South Manchester, Conn., is running his mill on half time.

A. H. Hubbard & Co., Norwich, Conn., are running their mill on half time. John Robertson, New London, Conn., is run-

ning on half time on account of low water. The Seymour Paper Co., Windsor Locks, Conn., has closed the lower mill for repairs.

The Keeney & Wood Manufacturing Co. North Manchester, Conu., is running on half

Ingalis & Co., South Manchester, Conn., are running on half time: short water supply is the

The Delaney & Munson Manufacturing Co., and the Cowles Paper Co., Unionville, Conn. are both on half time. Smith's mill, at Seymour, Conn., which has

been shut down for about two months, is to be started up about September 1. The Hartford Paper Co., Poquonnoc, Conn. has added a new stack of chilled rolls to the 54-

inch machine in the No. 1 mill. The Platner & Porter Manufacturing Co. Unionville, Conn., contemplates shutting down

its mill until the water supply improves. F. R. Walker, Burnside, Conn., has added a new stack of chilled rolls to his machine. He

will soon put in a new steam engine and boilers. The Hanmer & Forbs Co., Burnside, Conn., is outting in a stack of super-calenders, 44 inches face, to be used in finishing its fine manilla

C. H. Dexter & Sons' 1,000,000 feet of spruce logs have filled the "basin" at Windsor Locks Conn., so that another boom is to be constructed near the pulp mill.

The Winnipiseogee Paper Co., Franklin, N. H., is putting in a new steam boiler in its No. This, with the three already in, will give plenty of steam.

C. H. Dexter & Sons, Windsor Locks, Conn. have completed the construction of the wood pulp works at their mill, and expect to start up oon on the manufacture of chemically prepared spruce pulp.

Joseph Parker & Son, New Haven, Conn. have shut down their mill for six weeks to make repairs. While the mill is idle some new machinery for the preparation of lint for hospital ase from blotting paper will be put in.

The Haven & Masten Manufacturing Co. now wns and is operating the mill formerly owned by the Ames Box Board Co., North Bennington. The product of the mill is leather board and a very good quality of binders' board which

Among the names figuring in the tax list of Holyoke, Mass., are: Albion Paper Co., \$852.60; Crocker Manufacturing Co., \$742.98; Hadley Falls Paper Co., \$709.57; Parsons Paper Co., Valley Paper Co., \$1,840.92; Whiting Paper Co., \$5,761.75; Beebe & Holbrook. \$1,822.39; Franklin Paper Co., \$1,073.23; Massasoit Paper Co., \$1,773.67; Riverside Paper Co. Union Paper Manufacturing Co., \$2,226.85; Excelsior Paper Co., \$854.60; Holyoke Machine Co., \$2,223.72; Holyoke Paper Co., \$4,903.84; Newton Paper Co., \$743.85; D. H. & J. C. Newton, \$756.46; Robertson, Black & Co., \$313.20.

The Holyoke (Mass.) Paper Co. is resetting two of its five boilers in the Jarvis style, and has arranged to give the system a thorough trial in comparison with the old, so as to see how much of the advantage claimed can be obtained. Some time ago all the water put into the two boilers during twelve hours was accumeasured and the exact evaporation ascertained, while the coal consumed was weighed, thus showing how much coal was used to obtain certain results. Next week, when the boilers get well at work in their new setting, the operation will be repeated, and if the claims of the inventor are borne out the other three boilers will be set the same way. said by those who know that any newly set boiler will give at least 5 per cent. better results at first, and this will of course be considered in figuring the result of the present test.

MIDDLE STATES

The Jersey City (N. J.) Paper Company is about to put in a new stack of 54-inch chilled rolls and a set of reels.

WESTERN STATES.

A. W. Patten, Neenah, Wis., has recently started up the new Fourdrinier machine built for him by the Rice, Barton & Fales Manufacturing Co., Worcester, Mass. He has also put in a new Jordan engine and an extra stack of

FOREIGN. The Sebnitz mill, Germany, produced 3,498,

658 lbs. of paper last year, a large increase previous seasons

One of the largest paper mills in Germany, hat of Oldesloe, Schleswig-Holstein, was to be that of Oldesloe, Schle sold on August 1. It had been in liquidation for

A new paper mill is in course of construction at Alvington, England. It is to be called the Clanna Mill, and will be run on boards. Frank T. Noble is the owner.

The Siebrecht paper mill, in Wernshausen Germany, has been bought by Herr Wittich. who had a mortgage on the property. The price was 210,000 marks.

STANTON

152 Broadway.

NEW YORK, June 1, 1877.

GENTLEMEN:

Having given the subject of Paper Mill Insurance special attention, we would ask paper-makers to consider these few questions:

First-Should not well and carcfully managed paper mills be insured upon better terms than others?

Second-Will not insurance of this character receive better attention and more just and careful consideration on the part of insurance officers when brought to their notice by parties doing a large business than if sent through some small agent who cannot personally represent the facts to his companies?

Third—Are your policies correctly worded, so that you are positively

Fourth-Are you sure all the companies in which you hold policies are sound and solvent?

These questions and many others of like character are such as are being asked us constantly by paper-makers. Worthless insurance is worse than none. Badly worded policies lead to litigation. Business centers of course have the largest number of insurance companies, hence, better facilities for placing large lines of insurance.

We now have property valued at some forty millions of dollars (40,000,000) including some of the largest and best known paper mills in the United States. and have yet to learn of any paper maker who has become dissatisfied with our way of doing business.

Should be pleased to send you a Paper Mill Survey, and to hear from you regarding any insurance which you may desire for your mill property, and you can rest assured that it will receive careful attention at our hands. Please write us before renewing any of your policies.

Very truly yours,

ANDERSON & STANTON

INSURANCE AGENTS. AND

BROKERS.

152 Broadway, New York

A.H.GERE&Co. 73 Walnut Street, Cincinnati,

Dealers in Paper-Mill Supplies. We keep constantly on hand a full stock of all Dye Stuff and Chemicals used by Paper Manufacturers, al of which we guarantee to be strictly pure and at low prices.

Bagley & Sewall's Rotary Force Pump



Most Perfect Rotary Pump Ever Offered to the Public.

SPECIALLY ADAPTED FOR WORK IN PAPER MILLS.

The following are among the leading advantages of this pump: Its few Parts, Simplicity of Construction and small space occupied. Its small cost compared with other pumps. The comparatively small Power required (using from 30 to 75 per cent, less power than any Rotary Pump now in use.) Its Action is Positive, given an Even and Continuous Stream, being perfectly balanced in the water. Its Self-Packing Match Joints, requiring no Packing or Stuffing Boxes. Its Ready Accessibility of Parts, without breaking joints on pipes in taking apart, All Parts are made to an Exact Gauge, corresponding parts being interchangeable. The Speed can be adapted to Quantity of Water desired, the amount of water delivered being in proportion to speed and water applied.

TESTIMONIALS.

Office of the Watertown Paper Co., Watertown, March 22, 1875, § Its action is positive, discharging all the wat aken in, and consequently no power is wasted. taken in, and consequently no power is wasted. Is short, we give it our unqualified indorrement. Yours, &c., HIRAM REMINGTON, President.

West Cuminoton, Mass., October 4, 1876.

It does its work well, and I recommend it as the simplest and cheapest, as well as the best suction pump I ever saw.

Truly yours.

F. A. BATES.

OFFICE OF THE REMINGTON PAPER CO., }
Watterrown, March 20, 1875. {
We have used two 2-inch Pumps for the past ten months, as Suction or Vacuum Pumps, on our two 84-inch Fourdrinier Machines with entire satisfaction. For this purpose, or for raising and forcing water for general purposes, we regard the Green Pump as vastly superior to anything we have ever seen, and we have made the subject of Pumps one of especial study and investigation.
A. D. REMINGTON, President,

OFFICE OF THE CANADA PAPER CO.,
MONTREAL, December 11, 1876. {
DEAR Sir.—The Bagley & Sewall Pump we are now
using for pumping strong Caustic Alkall Liquors. We
find it the best pump for that purpose that we have
ever used, the metal packing being particularly valu
able. The No. 3 Pump of your make, which we are
using as a Fire Pump, we find to be very effective and
easily managed.

CANADA PAPER CO., Yours truly, CANADA PAPER CO., Wm. Angus, President,

PATERSON, N. J., October 11, 1875.

SMES—The little Rotary Fire Pump (No. 3) is entirely satisfactory. I have it connected with a system of sprinklers on each floor, and a set of hose front and rear, 134 inch nozzles, from which I am able to throw TWO STREAMS AT ONCE, EACH 125 feet.

J. SWINBURNE.

WATERTOWN, March 23, 1875,
In an experience of fifteen years we find this to be
decidedly superior to any Pump we have found, and
we have tried a large number, both Rotary and Piston. In fact it is the only one which has entirely
PLEASED US.

WATERTOWN, March 23, 1875,
If the property we fill the property of the pr

DEAR SIR—It works smoothly and rapidly without jar, and does all its makers claim it will do. We mow of no pump that is its equal for the purpose it sued for.

JOHN. A. DUSHANE & CO. Manufacturers.

WINCHESTER, Va., September 14, 1875.
We have it in use on our Straw Board Machine (62inch Fourdrinier) as a Vacuum Fump, connected to
an 18-inch box, which is a severe test. We consider
it the best pump for that use that we have ever seen
used.

Yours truly,
CHAS, L. CRUM, Sec'y,

These Pumps are now in use as Force and Vacuum in many of the Leading Paper Mills. Liberal Terms made to First-class Parties.

CHEAPEST PUMP IN THE MARKET.

EDWARD CONLEY.

Sole Agent for Paper Mills, No. 74 DUANE ST., N. Y.,

ARVIS' DATENT L'URNACE For the Setting of Steam Boilers

For the Setting of Steam Boliers

Will save twenty-five per cent. in fuel, and make an increase of twenty-five per cent. in Steam Power.

Will burn coal dust without blast. We guarantee fifteen per cent. increase in evaporation and capacity where we can have evaporative test b-fore and after setting. Boilers set this way can be seen at Russettl Paper Co., Lawrence, Mass.

W. W. Harmon's Paper Mill. Philadelphia, Pa. Howland & Co., Sandy Hill. N. Y.

MONTAGUE PAPER CO., Turners Falls, Mass.

HARMONY MILLS, Cohoes, N. Y.

ALLEN PRINT WORKS, Providence, R. I.

A. F. UPTON,

GENERAL AGENT, 239 CONGRESS STREET, BOSTON, MASS. GEO. W. STORER, 43 S. 4th st., Phila., Agt. for Penn. PINKERTON & JONES, Waterford, N. Y., Agents for New York State. H. A. GLASIER, S. Adams, Mass., Agt. for West. Mass.

\$55 to \$77 a week to Agents \$10 Outfit FREE. P. O. VICKERY, Augusta, Maine.

PETER HERDER, Paper Warehouse.

Fine Manillas, Pure Rope, Bag and Tag, Book and News Paper, Mailing Paper.

ALL KINDS OF PAPER MADE TO ORDER AT

No. 75 JOHN STREET, NEW YORK.

DIRECTORY.

Cards under this heading will be charged for at rate of \$10 per annum for each card.

NEW YORK HOUSES.

IDERSON, J. F., JR., & Co., 34 Beekma	Paper	an	d i	Pape	1	Makers'	Su	pplies.
	DERSON,	J.	F.	JR.,	å	Co.,	34	Beekma

ANDERSON, J. F., JR., & C	o., 34 Beekman st
BARRETT, THOMAS,	113 Fulton st
BEEBE, IRA L.	60 Duane st., cor. Elm
BENEDICT & HIGHET,	118 William st., N. Y
COBB, A. H.,	16 Reade st
GOODWIN, JAS., & CO.,	44 Duane st
HAND & ELLSWORTH, 51	Beekman and 81 Ann sts
HARD, MELVIN & SON,	25 Beekman st
HEWITT, C. B., & BRO.,	48 Beekman st
HULBERT, H. C., & CO.,	13 Beekman st
MYERS, B. & O.,	16 Beekman st
MURPHY, JOHN J.,	47 John and 5 Dutch sts
PERKINS & GOODWIN,	84 Duane st
WATSON, GEORGE, JR.,	63 Beekman st

Rags and Paper Stock.

ATTERBURY BROS.,	253 & 255 Front st
BRIGGS & TAYLOR,	60 Duane st
BUTTERWORTH & SMAL	LEY, 32 Beekman st
GROSS, FR. A.	5 Beekman st. (Room 19)
GILDEA, PATRICK, 1	71 and 173 Christopher st
LYON, J. W., & CO.,	35 Park st
MASON, JOHN W., & CO.,	43 Broadway
O'MEARA, M.,	27 Centre st
SMITH, THOMAS,	30 Hester st
TAYLOR, M. A.	50 Duane st
WARD, OWEN.	448 & 450 West 39th st,

Paper-Makers' Chemicals and Colors.

35 Fulton st., N. Y.

BINNS & LEA

GANTZ, JONES & CO.,	176 Duane st.
PENNSYLVANIA SALT MFG. CO., 140 S. Delaware av., Phila., Pa., 59 Ma	aiden lane, N.Y.
WM. PICKHARDT & KUTTROFF,	98 Liberty st.
RIKER, J. L. & D. S.,	45 Cedar st.

Paper-Makers.

ORRS & CO., Printing and Hanging Mills at Troy, Office, 39 Park Row, New York

Jute Butt Brokers.

		Straw	Boards.			_
LACEY,	POPE &	CO.,		138	Pearl	8
CABOI,	The AA TTEN	2 OF CO.	9	00 E	MORE A GE	_

BUTTERFIELD, H. A., 548 Pearl st., near Broadway HAYES, JAMES E. & CO.,

Paper-Making Mac	hinery.
ALLEN IRON WORKS, Improved	Filter, outh Adams, Mass,
CURRIER, CYRUS,	Newark, N. J.
DANTELS MACHINE CO., Rag Cuti	ters, Woodstock, Vt.
GAVIT PAPER MACHINE WOR 234 to 230 N. Bi	KS, road st., Phila., Pa.
HOLYOKE MACHINE CO.,	Holyoke, Mass.
MOHAWK & HUDSON MFG. CO. and Eddy Straightway Valves,	, Paper Machinery Waterford, N. Y.
POOLE, J. MORTON, & CO.,	Wilmington, Del.
PUSEY, JONES & CO.,	Wilmington, Del.
RICE, BARTON & FALES MAC	HINE AND IRON Worcester, Mass.
SMITH, WINCHESTER & CO., So	uth Windham, Ct.

Water Wheels. STOUT. MILLS & TEMPLE. Dayton, O.

_				_	-	-
	Wire Clo	oth.				
CABBLE	MANUFACTURING	CO., 48	Fulton	st.,	N.	Y

THE S	SELLERS	MFG.	CO.,	707 Market st., Phila., Pa
-		Felts	and	Felting.
DITT	TEN DE	MOTIVAN	* 0	O 74 John at N V

m - In 11		
WATERBURY, H., & CO.,	Renssellaerville, N.	¥.
GRAY, F, O'FERRAL & CO.,	Piqua,	0.
BULKLEY, DUNTON & CO.,	74 John st., N.	Y.

Belt Hooks.					
WILSON, GREENLEAF,	Lowell,	Mas			

BOSTON HOUSES. BLANCHARD, J. HENRY, Chemicals and Wood Pulp 42 Batterymarch st

CHICAGO HOUSES.

CLARKE, FRIEND, FOX & CO., Paper Manufacturers and Dealers, 150 and 152 Clark st GILBERT, Wm., & CO., Wholesale Dealers in Paper and Woolen Manufacturers' Materials, 11 & 13 Market st.

CINCINNATI HOUSES.

BLOCK & POLLAK, Paper Stock, 206 to 226 West Third st., and 39 to 57 McFarland st. NIDERS, LOUIS' SONS, Manufacturers and Whole-sale Paper Dealers, 121 Walnut st.

PITTSBURG HOUSES.

BAKEWELL, ALLAN C. & CO., and Paper Warehouse.	Printers' Supplie 75 Wood si
HARRISON, JAMES, Dealer in Page	per and Rags, 102 Second av
MARKLE, C. P. & SONS, Manufac	cturers of Printing

Paper and Glazed Hardware, MORRISON, BARE & CASS, Paper Manufacturer and Dealers, 47 Wood st

PHILADELPHIA HOUSES.

BARBER, J. & J. S., Po	aper Stock and Binders' Boards, 621 and 623 Commerce st.
DITMAN, J. G. & Ca Warehouse,	O., Wholesale Paper and Rag 30, 32 & 34 South 6th st.
ELLIOT, A. G., Paper	t Paper Stock, % S. Seventh st.
JESSUP & MOORE, D	Comestic and Foreign Rags,

ST. LOUIS HOUSES.

GRAHAM & BRO., H. B., Paper Warehouse and Stock MAYER, A. B., Rags and Paper Stock Dealer. 1014, 1020 & 1022 N. Twelfth at

MANUFACTURERS.

CLAREMONT MANUFIG CO. Claremont, N. H. IMPORTATIONS OF PAPER STOCK, PAPER, BOOKS, CHEMICALS, &c.

IMPORTS of Paper and Paper Materials, Books &c., at the Port of New York, for the week ended Aug. 3, 1877. Quantity given in packages when not otherwise specified.

Aniline Colors	73	\$10,961
Alum		-
Aluminous Cake	204	2,520
Bleaching Powders	189	2,380
Soda Ash	493	14,091
Soda Bicarb	100	971
Soda Caustic	390	8,309
Soda Sal	-	_
Ultramarine	81	4,254
Books	143	18,494
Newspapers	39	2,857
Engravings	17	4,027
Ink	6	550
Lead Pencils	9	2,428
Paper	89	12,525
Steel Pens	2	305
Stationery	12	2,258
Clay	-	-
Jute Butts		-
Jute Rejects	-	
Paper Hangings	4	315
Paper Stock	3,031	52,071
Rags	_	_
Total		\$138,801

TOTAL IMPORTS.	-
General Merchandise, for the week ending Aug. 3 Paper, Paper Stock, &c., for the year end-	84,774,814
Paper, Paper Stock, &c., for the year end- ing May 23, 1873	15,074,825
Paper, Paper Stock, &c., for the year end-	12,150,855
ing May 21, 1875. Paper, Paper Stock, &c., for the year end-	13,292,891
ing May 26, 1876 Paper, Paper Stock, &c., for the year end-	11,293,408
ing May 25, 1877 Paper, Paper Stock, &c., for the week end-	9,627,694
raper, Paper Stock, &c., for the week end- ing June 1, 1877	146,091
raper, Paper Stock, &c., for the week end- ing June 8, 1877. Paper, Paper Stock, &c., for the week end-	244,048
ing June 15, 1877. Paper, Paper Stock, &c., for the week end-	199,568
ing June 22, 1877	195,663
ing June 29, 1877. Paper, Paper Stock, &c., for the week end-	243,951
ing July 6, 1877. Paper, Paper Stock, &c., for the week end-	274,836
ing July 13, 1877	175,698
ing July 20, 1877	225,411
ing July 27, 1877	117,614

IMPORTS of Rags and Paper Stock at the Port of New York, since Jan. 1, 1877, from the following Ports, showing quantities from each Port.

	Bales.	Bales.	Manilla Stck Bales.
Alexandria	. 2,401	/ -	_
Antwerp	. 5,651	8,473	1,357
Bremen	. 1,611	1,311	308
Bristol	. 104	237	80
Calcutta	. 20	5	24
Catania	. 250	-	-
Constantinople	. 707	-	
Glasgow	. 814	9,146	799
Genoa		-	-
Hamburg	. 1,859	200	243
Havre		1,888	-
Havana	- Management	24	
Hayti		-	16
Hong Kong		_	
Hull		3,694	1,814
Konigsberg		-	
Leghorn		18	-
Liverpool		4,869	3,102
London		18,217	8,242
Malta		_	_
Messina		Management,	
Naples		-	_
Nuevitas		-	
Newcastle			144
Palermo		(manufacture)	-
Port Cabello		13	promote
Rotterdam		1,385	
St. John's			
Trieste		-	

EXPORTS of Paper, Books, &c., from the Port of New York to Foreign Ports, for the week anded August 7, 1877, with Aggregates and Values.

BOOKS, cases, to Cisplatine Republic, 23; to Liverpool, 5; to London, 5; to Havre. 1; to Mexico, 2; to Rotterdam, 2; to Dutch West Indies, 5.

PAPER, to Bremen, 15 cs.; to Central America, 80 rms.; to Cuba, 8 pkgs.; to British Honduras, 290 rms.; to British West Indies, 35 do.; to London, 7 cs.;

to Liverpool, 3 cs.; to Brazil, 15 cs.; to Cisplatine Republic, 11 pkgs.; to Venezuela, 350 rms.; to Argen-

STATIONERY, to Liverpool, 18 cs.; to British Hon-

Paper, reams	725	\$246
Paper, pkgs	19	850
Paper, cases	51	4,942
Books, cases	48	8,707
Rosin, bbls	4,719	15,780
Stationery, cases	35	1,880
Totals	5,592	\$26,655

	General Merchandise, for the week ending August 7. \$5.025,231	
	Paper, &c., for the year ending May 27, 1873 2,889,482	
1	Paper, &c., for the year ending May 26, 1874 1,783,877	
	Paper, &c., for the year ending May 25, 1875 2,327,682	
	Paper, &c., for the year ending May 23, 1876 1,654,384	
	Paper, &c., for the year ending May 29, 1877 1,790,669	
	Paper, &c., for the week ending June 5, 1877 31,417	J
	Paper, &c., for the week ending June 12, 1877 45,494	
1	Paper, &c., for the week ending June 19, 1877 25,282	
ı	Paper, &c., for the week ending June 26, 1877 28,118	
J	Paper, &c., for the week ending July 3, 1877 57,840	а

NEW YORK IMPORTS.

FROM AUGUST 3 TO AUGUST 10, INCLUSIVE. Hide Cuttings.

Bates & Foster, Edith, Manilla, 200 bs.

Jute Butts. Lanman & Kemp, Cape of Good Hope, 100 bs. Cabot, Bowles & Co., by same, 2,000 bs. Baring Bros. & Co., by same, 2,000 bs.

Rags, &c. Briggs & Taylor, Hectamoga, Liverpool, 130 bs. nanilla, stock.
E. Sengstak, Hindoo, Hull, 87 bs. rags.

Lewey Bros. by same, 151 bs. rags. Campbell, Hall & Co., Harold, Genoa, 94 bs. rags. Fabbri & Chauncey, by same, 274 bs. rags.

John W. Mason & Co., Wyoming, Liverpool, 38 bs. rags; 42 bs. old junk.

Briggs & Taylor, City of Berlin, Liverpool, 147 bs. anilla stock. W. H. Parsons & Co., by same, 200 rags.

Lee & Sturges, Henmann Ludwig, Antwerp, 303 bs. rags; 519 bs. paper stock; 269 manilla stock. Paper. C. Kaufmann, Pereire, Havre, 34 cs. Eimer & Amend, Rhein, Bremen, 5 cs. E. Faber, by same, 1 cs. G. J. Kraft, by same, 3 cs. P. Fanelly, by same, 3 cs. A. E. Wallach, by same, 1 cs. B. Illfelder, by same, 2 cs.
Dreyfuss & Sachs, by same, 3 cs.
M. Jacoby & Zeiler, by same, 1 cs.

E. Kimpton, by same, 3 cs. Fischer & Keller, by same, 1 hangings. Knebel & Cabus, Oder, Bremen, 1 cs. Gain Bros., H. Ludwig, Antwerp, 8 cs. Knausche & Downing, by same, 1 cs. L. de Jonge & Co., Hammonia, Hamburg, 4 cs. J. O. Lange, by same, 3 cs.

A. & C. Kaufmann, by same, 2 cs.

E. B. Benjamin, by same, 3 cs.
Gain Bros., by same, 1 cs.
B. & P. Lawrence, Barbary, Havre, 6 cs.

PHILADELPHIA IMPORTS.

Paper Stock.

V. A. Sartori & Son, Bristow, Leghorn, 210 bs.

rags.
Bernd Bros., Juniata, Savannah, 1 bs. rags. Wilson, Stewart & Co., by same, 20 bs. paper Jessup & Moore, by same, 1 csk. paper stock.

Noda Ash.

Cooper, Smith & Co., Charles S. Baylis, Liverpool, 66 tcs. 72 cks, soda ash; 56 tcs. chloride of lime.

BOSTON IMPORTS.

IMPORTATIONS of Paper Stock, Chemicals, &c., at Port of Boston, from August 3, 1877, to August 9, 1877, inclusive.

Little, Brown & Co., Batavia, Liverpool, 3 cs. Schoenhof & Moeiler, by same, 1 cs. Ginn & Heath, by same, 7 cs. Estes Lauriat, by same, 2 cs.

E. P. Dutton & Co., Massachusetts, Liverpool, 3 cs. A. Gray, Atlas, Liverpool, 1 cs. Paper.
Camille Reid, Batavia, Liverpool, 2 cs. paper

Burnham & Morrel, by same, 1 cs. labels. A. P. Schmidt, by same, 3 cs. music. H. Partridge & Co., Istrian, Liverpool, 1 cs. manuf of paper.

Paper Stock. M. A. Ring & Sons, Batavia, Liverpool, 67 bs. paper stock. Twombly & Co., Istrian, Liverpool, 134 bs. gunny

Warren & Co., Massachusetts, Liverpool, 153 bs. paper stock.

Morey & Co., by same, 80 bs. waste paper. Haskins & Montague, Celina, Buenos Ayres, 30 tons

E. P. Cutler & Co., Carroll, Halifax, 2 bs. paper

Bleaching Powder. E. & F. King & Co., Massachusetts, Liverpool Warren & Co., by same, 128 cks.

Caustic Soda.

Warren & Co., Massachusetts, Liverpool, 100 Hide Cuttings. N. W. Rice & Co., Celina, Buenos Ayres, 49 bs.

T. Groom & Co., Massachusetts, Liverpool, 74 T. Groom & Co., Batavia, Liverpool, 75 bags.

Sal Soda. E. Hill, Istrian, Liverpool, 140 cks.

Soda Ash.

Wood Pulp, WET or DRY

Delivered in any part of the country, in quan-

IRA L. BEEBE, 60 Duane Cor. Elm St., N. Y.

LACEY, POPE & CO. 133 Pearl St., N. Y.

BROKERS IN JUTE BUTTS

Rejections.

TISSUE PAPERS

of the CELEBRATED ENGLISH MAKE, Trade Mark, "Mill No. 682," White, Colored and Silver Issue, manufactured expressly for Jewelers' and Silver-Platers' use; guaranteed not to tarnish or discolor the goods.

Sole Agent, FRED'K W. SMITH, 351 Canal St., N. Y.

JOHN H. EASTWOOD.

WM. BUCHANAN.

CHAS. SMITH.

Standard Wire Works,

BELLEVILLE, N. J.

Eastwood, Buchanan & Smith.

Of Every Description.

FOURDRINIER WIRES,

DANDY ROLLS AND CYLINDERS Made, Covered and Repaired BRASS AND COPPER WIRE, WIRE WINDOW SCREENS AND GUARDS.

GEORGE HARLEY,

Importer of California Rags

WOOLEN AND COTTON RAGS, & All Kinds of Paper Stock.

362, 365 & 367 Third Street,

CHAMPION (DOUBLE HITCH) BELT HOOK



his cut conveys a correct idea of the manner of usting these Hooks. It will be observed that the stantial DOUBLE BEARING of each Hock pre-les the possibility of its "tearing out,"

r sale by the Trade. Specimen Hooks and delt Ends mailed when requested.

Gress, CHAMPION BELT HOOK CO., 87 Liberty street, New York.

From The Clark Therad Co., Newark, N. J.]

The have thoroughly tested your Belt Hooks, and hink it the best belt fastening we have ever

MILLS & TEMPLE



MANUFACTURERS OF THE

AMERICAN

Turbine Water Wheel, GEARING & SHAFTING,

Rag Engines, Wood or Iron Tubs, RAG-CUTTERS, DUSTERS,

Pumps, &c.

THE AMERICAN TURBINE, as recently improved, utilizes a higher average percentage of power than any Turbine ever known, which justly entitles it to the position claimed for it as the BEST Water Wheel in the world.

Large illustrated catalogue sent free on applica-tion to

STOUT, MILLS & TEMPLE, DAYTON, OHIO.

NATRONA **POROUS**

PAPER MAKERS' USE.

FREE FROM IRON AND FROM EXCESS OF ACID.

Two pounds of it will size as much paper as three pounds of Potash or Ammonia Alum.

Pennsylvania Salt Mfg. Co.

140 South Delaware Ave., Philadelphia.59 Maiden Lane, New York.212 Washington Ave., St. Louis, Mo.

M. M. ELLICOTT & SON, Baltimore. MOREY & CO. Foston.

BER BELTING

Warranted the Victorian Allower Princips.
Heavy 5 and 6 ply Belts a Specialty.
R. LEVICK, SON & CO. Agency National Rubber Co. 724 CHESTNUT ST.,
PHILADELPHIA.

ESTABLISHED 1840.

Rags and Paper Stock

JAMES T. KEENAN. NEW YORK.

PIQUA

Paper-Makers'

FOURDRINIER FELTS. Coarse and Fine

CYLINDER WET FELTS.

Press Felts & Jacketing. F. GRAY, O'FERRALL & CO., Piqua, Ohio.

We warrant every Felt to work well, and if it does not, it can be returned.

SATISFACTION GUARANTEED. In ordering Felts, give kind of Stock used, and quality of Paper made.

[From The Paper Trade Journal of March 4, 1876.] MIDDLETOWN, O., February 29, 1876.

MIDDLETOWN, O., February 25, 1878.

To the Editor of The Journal:

Much has been said in former numbers of The Journal:

Much has been said in former numbers of The Journal about the running and durability of cylinder long felts. Grax, O'FERRALL & Co. are supplying the best cylinder long felt I have ever had any experience with for wide machines. I think they decidedly excel. They keep their width under a reasonable strain, and when kept clean never trouble with wind marks, never get stack in the middle or edges; in fact, they make paper, with ordinary care, until they are entirely ween out, and it would be well for any one who is troubled with an unsatisfactory working felt of any other make, to try one, and by all means to do so if there is a necessity for fast rinning.

IRA L. BEEBE, NEW YORK AGENT.

ARE YOUR MILLS

Fully Insured In SOUND Companies?

A prominent paper-maker writes:

"As stated before, we want to get out of the hands of our local agents, who omit no oppor-tunity to make us feel that we are paper manu-facturers, and that paper mills are burning up at the rate of one a minute."

We can refer to some of the leading Paper Mills, for whom we are SOLE AGENTS.

We can Save you Money.

Blank surveys sent by mail upon application.

ANDERSON & STANTON.

Insurance Brokers. 152 BROADWAY.

BLUE PAPER.

TIEMANN'S SOLUBLE BLUE RED AND BLUE ANILINES.

J.H.TIEMANN&CO. 56 Murray Street, New York.

The paper Trade Journal. DEVOTED EXCLUSIVELY TO THE INTERESTS OF

The American Paper Trade. Weekly, \$4.00 per annum.

Single Copies, . . . 10 Cents NEW YORK: SATURDAY, AUG. 11, 1877.

Advertisements cannot be received for insertion in the current week later than 9 a. w. on Friday The charge for advertising is 25 cents a line, each inser-tion. Special terms for standing and displayed advertisements to be had on application, Directory Column and one copy of paper, \$10 a year.

THE PAPER TRADE JOURNAL is the recognized organ
of the various Paper-Makers' Associations of the United States.

THE JOURNAL contains the latest and fullest in formation relative to the paper trade in all parts of the world, including descriptions of new appliance and processes for making paper, experiments with new fibres and other materials, a record of the water supply, with the latest manufacturing news in all parts of the country. It gives the cream of all the foreign technical journals which relate to the paper interest, besides communications from compete persons in the trade, both at home and abroad. T market review and quotations show the state of trade in all the principal cities, and no pains have been spared to make these accurate and complete.

Subscription and postage for Great Britain,

Subscription and postage for France, per

Subscription and postage for Germany, per Foreign subscribers may address our New York

Communications on matters of interest to the trade are earnestly solicited from all quarters, and if used will be liberally paid for. Items of news, and facts of all kinds in relation to the state of the mills, &c., will be gladly received.

cations must be addressed to

HOWARD LOCKWOOD.

Publisher and Proprietor. No. 74 Duane street, N. Y.

TO CORRESPONDENTS

As THE PAPER TRADE JOURNAL is the vehicle of communication in matters of trade in terest, we will be glad to receive correspondence from all parts of the country. Information and sugges-tion upon paper-making topics are especially valu-able, and manufacturing news and personal items are equally acceptable.

THERE are complaints of low water in some sections of the country, but we do not learn that they are general. Will our friends keep us advised?

SEVERAL articles specially prepared for THE JOURNAL appear in this issue. The report on paper-making in Sweden is drawn from the Swedish catalogue at the Centennial.

A CORRESPONDENT in our last issue spoke of keeping a "steady-head of water in the forebay." This, we think, every papermaker will find to be impracticable. The flow of water in the forebay cannot be controlled even when there is a big head up, and a governor on the wheel is the best thing to regulate the speed.

WE have before us the August number of the American Mail and Export Journal. This paper has taken high rank both at home and in foreign countries and has received many flattering notices, particularly in Great Britain. The Aberdeen Free Press takes it as a text for reading American manufacturers a homily upon the unrighteousness of a protective tariff, seeming to forget the while how much British industries are indebted to protection for their development.

WE want to get up a discussion on resins. A French correspondent asks us some ques tions which we expect to review ere long, and it seems to be a fitting occasion for opening up a feature in paper manufacture which has a wide range, and upon which a great deal can be said. There are a great many ideas in relation to the use of resin in sizing floating around, and there is doubtless much practical knowledge which could be made available. Let the men in the trade whose everyday business it is to meet and conquer the perplexities which arise in manufacture think this over, and if they have anything to say, speak out.

THE extension of our foreign trade is one of the matters to which the Government proposes to devote specific attention. The Secretary of State not long ago declared that he hoped, through trade conventions with foreign governments, to extend the markets for our products. It is quite satisfactory to know that Mr. Evarts

presses it when he declares that our surplus must be disposed of. We are now really suffering from excessive wealth, an abundance of riches which reacts upon itself and makes industry poor, and an outlet must be found in order to keep our operatives employed.

THE condition of our foreign trade for the last fiscal year, as shown by the figures of the Bureau of Statistics, is of general trade interest, and we briefly summarize its features. The excess of exports over imports for the fiscal year is \$151,913,482 in goods, \$15,325,762 in specie and \$167,239,244 in total: for the previous year it was \$79.643 -481 in goods, \$40,569,621 in specie and \$120,-213.102 in total: the excess of exports over imports was, therefore, \$72,270,001 greater in the last than in the previous fiscal year in goods; in specie it was \$25,243.859 less and in total was \$47,026,142 greater. The total foreign trade for the fiscal year 1876-7 was \$1,149,550,632 against \$1,073,-568,344, for the year 1875-6. While an increase in the imports is apparent during the last six months of the fiscal year, and relatively larger than the increase in exports as compared with the first six months, we are shown a very gratifying development of our export trade. At the same time the increase of our import values of late points to the conclusion that in buying more freely abroad the country is recovering from depression, and has been gaining in purchasing power while enlarging its export trade and augmenting its commercial importance.

Correspondence.

[Communications are solicited from everyone who has anything of value or interest to impart. Items of news, trade gossip, and personal information will be gladfy received. Correspondents are requested to write on only one side of the paper. No responsibility for the opinions of correspondents attaches to this paper. Communications must be sent to reach this office by Wednesday night or Thursday morn-ing, of each week, to insure insertion.]

Pity the Poor Machine Tender.

To the Editor of The Journal :

"O. I. D. Clare" seems to think that "Machine Tender" is responsible for all the mill. The mis-chief is done before the stuff comes to the machine room, and no amount of treatment there can remedy it. Regulating the fan pump may mitigate, but is no cure. Unless the machine tender is also the size maker and engineer, I should think it hard to make him bear the burden of a matter which ought to be corrected upstairs My opinion is, that it is something of a case of foremanship. It is too late when stuff is on the machine to try and remedy the effects of poor size and inefficient treatment in the engines More anon. Yours,

Chronology of Paper-Making.

To the Editor of The Journal:

I have now before me a book of recent issue entitled "Paper and Paper-Making," published by Jael Munsell, of Albany, N. Y., in which he gives the chronology of paper-making from the year 670 s. c. to the present time, enumerating the number of different articles, with names of same, which have been used in different countries in the manufacture of paper. While I do not think that it will be of any practical benefit to the paper trade, yet it is quite interesting as a book of reference and statistical information. I have only glanced over the volume casually, and think it would take some time to "take it all in. It other words it is a compilation of dates and names of manufacturers of different grades of paper, and of the different grades of stock used manufacture. I think Mr. Munsell has been quite faithful in his collections.

Respectfully,

Cleansing Felts.

To the Editor of The Journal ;

In reply to the inquiry of your correspondent Manilla." who is in quest of information relating to Dunn & McAlpine's felt cleansers, I would say that the contrivance referred to is a very simple one, and can readily be applied to either a cylinder or Fourdrinier machine, and consists of vacuum boxes of peculiar construction in connection with shower pipes; also with the ordinary suction pumps already in use.

A faithful application of this labor-saving apparatus operates at all times when required in moving extraneous matters from the felts keeping them in the best possible condition, and saving fifty per cent. in felting.

A continuous use of a cleanser on the first felt in removing air and superfluous moisture from the sheet operates as a sure remedy for blowing and sticking at the press rolls; also in preventing felt-marking and many other evils in conse Jo. KORE. quence of felts filling up.

Resins.

VIDALON-LES-ANNONAY, France, July 11, 1877.

To the Editor of The Journal: We often receive from the United States resins which we use in sizing our writing papers. We understands the situation. He fully ex have frequently remarked a difference in the

quality of these resins. When used, they de velop an odor like absinthe or anise which our French resins do not possess. Will you tell us through THE JOURNAL if you know of any extracts from pine trees furnishing the best resins for sizing all kinds of paper; how they can be recognized and what is the name of the pine or fir tree in your country producing the most valued resin for sizing fine papers. Thanking CANSON ET MONTGOLFIER.

Ans.—The resin used in this country is the product of distilling the turpentine extracted from pine trees native to our Southern States. The darkest resins are the strongest and best for coarse papers, but affect the color. The clearest will not make as strong a sizing, and is apt to produce transparent spots. The medium grades are esteemed the best, if of a clear amber color. We will take up this subject of resins at an early day and try to convey the information demanded by our correspond-

Changes, Removals, and New Firms.

R. W. Cram, news depot, &c., Petrolia, Pa. has sold out to Cypher & Co.

Palmer & Austin, books and stationery, Geneva, O., have dissolved partnership.

D. H. Hill, publisher of the Southern Home, Charlotte, N. C., has sold out to F. B. McDowell. Pond & Hamlin, books, &c., Hartford, Conn. have dissolved partnership; Pond & Childs suc-

J. S. Leitch & Co., publishers of the Jefferson Republican, Charlottesville, Va., have sold out

H. B. Bigney & Co., publishers, Montreal, Province of Quebec, have obtained an extension from their creditors.

The Masonic Publishing and Furnishing Comsucceed C. M. Barker, publisher of masonic books, &c., New York City.

W. E. & George S. Parrish have been ad mitted to partnership with L. Lumpkin, bookseller and stationer, Owensboro, Ky., and the firm will be known as L. Lumpkin & Co.

L. J. Levinstein & Sons, color and chemical manufacturers, of Manchester, England, are about to start a branch house in New York, under charge of John Campbell, who has been for several years associated with the firm.

The firm of Palmer & Co., booksellers, station ers, &c., Marshalltown, Iowa, has been dissolved by mutual consent; A. E. Carhart retiring. S. D. Palmer continues the business in his own name, and will pay all indebtedness of the firm.

Marion J. Wellslager has retired from the firm of Redhead & Wellslager, wholesale and retail booksellers and stationers, Des Moines, Iowa. Wesley Redhead and Richard T. Wellslager continue under the same firm name.

Moses H. Sargent, formerly connected with the Congregational Publication Society, has formed a copartnership with his sons, Wm. S. and Dana E., under the firm name of Moses H. Sargent & Sons, in the book and stationery ousiness, at 12 Bromfield street, Boston, Mass.

Failures.

John Backup, stationery and books, Boston Mass., is reported failed.

Joseph F. Delano, printer, Charleston, S. C., has been sold out by the Sheriff.

John W. Madden, stationery and books, New Orleans, La., has obtained an extension from his creditors.

Accidents.

A. C. Bakewell, of the Valley Paper Company, had his arm broken recently while traveling from the mill at Hulton, Pa., to Pittsburg.

J. J. Mires, an employee in Geo. Robertson & Son's mill, Hinsdale, N. H., had one of his thumbs crushed a few days ago, while putting paper through a stack of calenders.

William F. Huntington, book-keeper at the Chester Paper Company's mill at Huntington, Mass., was drowned on Tuesday, August 7, while bathing in the pond near the mill. His body vas soon recovered, and every effort was made in vain to resuscitate him. As he left his boarding-place he made the remark that he was going to drown himself-in a playful manner-and being unable to swim, and getting in the dark into deep water, was drowned. He was twentyfour years of age, and lived at Springfield.

Fires.

Longley & Co.'s printing establishment at Foster's, Ohio, was destroyed by fire on August The loss is \$15,000, and is fully insured in Western companies.

Personal.

The death of W. B. Jones, printer, Covington, Ky., is announced.

The death of Charles Knight, Jr., paper dealer Philadelphia, Pa., has been announced

J. L. Taylor, of Briggs & Taylor, who has been rusticating for the past month, returned to the city on yesterday.

George P. Sheldon, of the law firm of Sewell & Pierce, No. 206 Broadway, has been cho attorney for the Board in place of C. H. Phelps, who resigned recently.

Owen Keenan, of this city, who recently re tired from active business on account of illhealth, is the oldest paper stock merchant in the country. He started business at No. 110 Norfolk street, in 1839, and has been in the trade continlously since that time, remaining at the old stand for thirty-six years. He leaves the business which he successfully conducted for so long a time in the hands of his son, James T. Keenan.

A. S. Bacon, Richmond, Va.; J. S. Morrison, Roaring Springs, Pa.; W. H. Chatfield, Cincinnati, O.; A. C. Robertson, Montville, Conn.; C. T. Crocker, Fitchburg, Mass.; Wellington Smith, Lee, Mass.; H. B. May, Lee, Mass.; Prentis Chaffer, Lee, Mass.; S. S. Crocker, Leo-minster, Mass.; G. W. Wheelright, Jr., Boston, Mass.; T. H. Hulbert, Collins' Depot, Mass.; S. Q. Porter, Unionville, Conn.; J. W. Friend, Pittsburg, Pa.; Leslie C. Wead, Malone, N. Y Mr. Masten, North Bennington, Vt.

Chattel Mortgages.

NEW YORK CITY. Mortgagor. Mortgagee.

Duffy & Monks, 149 Spring st. .J. Royal ... Augustus Drew, 2 Clinton pl., S. T. Gordon. S. Union and Church and Wardens ook Society, 81 Centre st. of Trinity Ch. H. L. Hinton & Co., 47 Lafay-John Taylor 6 Whitehall st...C. E. Pine. John J. Williams, 32 E. 14th st. M. J. Van Brunt. BROOKLYN. Joseph D. Robinson, 1091 De-.J. Conner's Sons. . . 593 C. E. Pine......800

NEW JERSEY. Joseph Howard, Newark.....J. Conner's Sons...283 EASTERN STATES. Samuel G. Ames, Boston, Mass... Chas. R. Bennett, Boston, Mass. William J. Blair, Boston, Mass..... P. J. Keegan, Boston, Mass..... 1,200 C. C. Childs, Pittsfield, Mass.... Henry Sevey, Fall River, Mass. Adams & Briggs, Worcester, Chas. A. Bartlett, Worcester, H. H. Bigelow.....200 Adams & Briggs, Worcester, Mass.... ...1.500 WESTERN STATES.

Charles H. Miller, Chicago, b. s.....

Newspaper Intelligence.

The following is a list of new newspapers, furnished from the advance sheets of the American Newspaper Reporter and Printers' Gazette:

NEW NEWSPAPERS DAILY.

Size

 18×24 WEEKLY. 23 × 32 Cheshire (Conn.) Courier... Danbury (Conn.) Democrat. Guilford (Conn.) Shore Line Sentinel. Apopka City (Fla.) Florida Pioneer. Connersville (Ind.) News. Centerville (Iowa) Tribune. Winchester (Ky.) Chronicle. Fredericktown (Mo.) Jeffersonian..... Laclede (Mo.) Reporter... Wilber (Neb.) Besada. Rochester (N. Y.) Sonntags-Blatt. Hendersonville (N. C.) New Era....... Washington (N. C.) North State Press... West Liberty (Ohio) Press.
West Union (Ohio) Adams Co. New Era.
Hugheswille (Pa.) Journal.
Sulphur Springs (Tenn.) Reah Springs News... Taylorsville (Tex.) Reflector. ora (Ont.) Liberal Conservative... Blyth (Ont.) Review Chesley (Ont.) Enterprise . . . Milton (Ont.) Halton News. SEMI-WEEKLY. Raleigh (N. C.) Register ... MONTHLY. San Francisco (Cal.) Pacific Printer; bi-month Chicago (Ill.) American Homocapthist. octav Springfield (Ill.) Athenœum...

Philadelphia (Pa.) Bentley's Book Buyer Philadelphia (Pa.) Post Office Bulletin and Ship RESUMPTIONS

New York (N. Y.) Amateur Artisan... New York (N. Y.) Goetling's Journal. New York (N. Y.) Postal Gazette....

and Industry.

 Susanville (Cal.) Lussen County Furmer.
 24 × 36

 Abbeyville (La.) Meridional.
 22 × 32

 Yonkers (N. Y.) Deutsche Zeitung.
 26 × 40
 St. Albans (W. Va.) Pioneer

New Patents.

Granted July 24.

No. 193,322. Making Hollow Articles of Vulcanized Fibre.—W. Courtenay, New York, N. Y. The improved art of forming tubular articles from vulcanized fibre, which consists in par tially dissolving the edges of the material in chloride of zinc, forming it upon a mandrel, cementing the edges under heat and pressure vetting, and shrinking upon a mold to impart

the desired contour to the tube while drying No. 193,327. Machines for Cutting Paper, Enveloper &c.-E. J. Frost, Philadelphia, Pa

Paper is fed off the reel, and the slack taken up by a gravitating beam-roll. Continue rotating feed-drums convey a proper length of web previously reeled off to the cutter, which latter is constructed of a shape to produce the article required. The upper feed-drum is made in sections, each of which has a portion of its periphery raised, and they may be adjusted with relation to each other, in order to vary the length of the sheet to be severed. Eccentric cams are suspended above the sheet, to prevent

backlash or rear movement after being fed to the cutter.

No. 193,330. Processes and Apparatus for Putting up Caustic Alkali .- H. B. Hall and E. Hine, New

A process of putting up caustic alkali, which consists in compressing the same, in a dry granular condition, into air-tight packages, whereby the alkali will be practically free from water, and will retain its original strength.

No. 193.314. Save-alls for Paper-Makers.-R. A. Mor-

ton, Cardwell, New Brunswick, Canada. "save-all" consisting of a tank, sieve-covered drum, hollow perforated shaft, and couchroller and scraper.

No. 193,364. Machines for Lining Paper.—C. L. Crum, Winchester Va

A reservoir of a pasting-machine, provided with two paste-grinding rolls, which are located within the reservoir in such manner as to divide it into substantially two compartments for containing the ground and unground paste.

The combination with a reservoir of a pasting-machine having two compartments formed by the two paste-grinding rolls, as specified, of a pasting-roll, the same being located within one of said compartments for taking up the ground paste.

3. The reservoir of a pasting-machine, having two compartments formed by the two pastegrinding rolls, as specified, in combination with ne or more scrapers for taking off the paste from said rolls.

4. The combination, with a reservoir of a pasting-machine, of a pasting-roll, a pressing-roll in direct contact therewith, a guide-roll, over and upon which the two sheets are brought in contact and a drying-cylinder.

No. 193,387. Methods of Making Paper Cans for Petroleum and other Fluids.—E. Waters, Troy,

A process of manufacturing square paper cans, consisting in, first, preparing a skeleton framework of the angle and connecting pieces; second, inserting the head and bottom in the upper and lower ends of said frame work; and, third, closing the sides thereof by winding a continuous sheet of paper of a width corresponding to the length of the angle pieces around the skeleton frame until the requisite degree of thickness has been attained.

No. 193,454. Water-Wheels.-J. S. Ladow, Mecha

icsville, N. Y. When the wheel is at rest, the chutes are fully open. The water being let on by a main gate, the suspended gate is controlled by the governor to close the chutes in proportion to the speed of the shaft.

No. 7.816. Injectors for Feeding Boilers.-W. Sellers,

Philadelphia, Pa. Patent No. 75,059, dated March 3, 1868. Foreign Notes.

The German paper trade is taking steps for the formation of a protective union such as

already exists in Switzerland. Dresden sent to the United States during 1876 paper, paper manufactures and writing materials to the value of 250,326 marks.

Colored wrappings for comestibles, confectioners, &c., have been condemned by the Austrian authorities on account of the injurious materials which are used in dyeing. They can be employ-ed, however, as an outside cover.

The Union of German Paper Manufacturers has offered a prize of one thousand marks for the best essay on the educational effects, &c., of the abolition of the rag duties and custom duties on paper. Essays must be sent in not later than October 1 to Herr L. Keférstein, Croellwitz, near Halle

The International Association of Cellulose Manufacturers recently held its annual convention at Bingen on the Rhine. The association embraces members from Germany, Austria, Russia, Sweden, Norway and Denmark. The total membership is eighty-six, of whom sixteen were elected at the last meeting. Matters of importance were discussed, but it seems that the tangible results are rather insignificant, taking as the source of information the Papier Zeitung, in a late number of which the full minutes of the convention are published. The association voted 1,000 marks to the author who will present the best treatise on the cellulose industry.

Cocoa Fibre.

Cocoa fibre has only been hitherto employed in the manufacture of carpets and mats, but from some experiments which have been made with it in one of the largest paper mills in France, there is a prospect of its entering into pulp can be obtained, it is said, from the cocoa fibre one, without any other ingredients, and a trial which is now being made to manufacture it by machinery will doubtless determine the question. Its preparation by hand is costly, and there is a residuum which cannot be utilized except by combustion. By the new process this waste is exactly what is wanted, as it proves to be an excellent succedaneum of rags.

An old gentleman in a New England town who recently became the recipient of his first postal card, placed his specs carefully astride his nasal organ, and eyed the pasteboard closely. 'What is this thing anyway?" he finally de manded. "Why, a postal card, of course," the answer. "A post-hole card! What is sich a thing good for, I'd like to know?" He was informed that a cheap rate of postage he into vogue, and writing paper was at a discount. "Blast it all!" flamed the old gentleman in a sudden rage, while his nose described a semi-circle with a sharp angle, "they've got ter 'dulteratin' tea with weeds, terbaker with licorice and copper, whisky with pepper and turpentine, an' now they've got ter 'dulteratin' envelopes tu save the paper! Confound 'em!"-Union.

Texas wheat is so high that grasshoppers have to walk on stilts.

General Notes.

A patent will not be sustained if the claim is for a result, a principle, an idea, or any other mere abstraction.

Combinations consisting of old elements are not the same when none of the devices employed in one can be substituted for those in the other, as to render the apparatus operative to effect described result without reconstruction and in-

Where the claim immediately follows the description of the invention, it may be construed in connection with the explanations given in the description, and if the claim contain words referring back to the specification it cannot properly be construed in any other way.

Where the invention is embodied in a ma chine, the question of infringement is best determined by a comparison of the machine or apparatus constructed or used by the respondent with the mechanism described in the specification of complainants' patent.

A final hearing for the awards of printing and stationery contracts for the State of Vermont was had on July 26 at Montpelier, by the Secre tary of State and Auditor. There were six bid Tuttle & Co., of Rutland, were awarded contracts, covering a space of two years, for printing the House and Senate journals and the State officers' reports, together with all official printing for departments and officers, as well as the stationery supplies for the same.

A PAPER-MAKING SPIDER.—In central Africa there is a spider which makes paper of a very fair quality. After selecting a spot for her nest she works backwards and forwards over about a square inch of surface until the space is covered with a pure white paper. In this she places from forty to fifty eggs. She then es a strip of paper about a quarter of an inch broad, and with it carefully glues the square together. The spider wages a fierce war with cockroaches, or any other insect that comes near. After three weeks of unremitting watchfulness, the mother leaves her nest in the day time to hunt for food, but she always returns at night until the young are strong enough to cater for themselves. What a pity it is that the papermaking spider cannot be taught to place a little strong pepper or arsenic over the paper, when she makes it. She might then dispense with her protracted watch, and go and visit her relations. -Paper and Printing Trades' Journal.

FIRE-PROOF PAPER AND INK .- A patent recently taken out in England mentions for paper 10 parts of vegetable fibre, 30 parts of asbestos, 1 part of borax, and 2 parts of alum. For the ink, 110 parts of pulverized plumbago, 1 part of copal varnish, 10 parts of iron sulphate, and 40 parts of tincture of galnuts and indigo carmine, well mixed and boiled in water. It is said that this ink can be used. for printing as well as for writing; while for colored inks, instead of the graphite, some colored mineral pigment may be substituted.

SPECIAL NOTICES.

Insertions under this heading will be charged 50 cents a line. Payment invariably in adva

Third Edition --- Now Ready.

LOCKWOOD'S DIRECTORY

Paper Trade.

This Directory contains a full and detailed descrip-on of every Paper Mill in the United States and

LOCKWOOD'S DIRECTORY is the only standard authority of the kind, and is constantly consulted by the Trade in all parts of the country.

PRICE, - - - \$2.00.

HOWARD LOCKWOOD, Publisher.

74 DUANE STREET, N. Y.

CONCERN

GAVIT PAPER MACHINE WORKS, AUGUST 1, 1877.

The Trade and all whom it may concern are hereby tified that the "IMPROVEMENT IN PAPER PULP SCREENS," described and illustrated in the Paper Trade Journal of July 28, 1877, and claimed to be invented by William Blizzard and Edmund Mather, is an infringement on the Patent granted to Gorton Gavit, Nov. 17,

facturing or using the apparatus referred to and claimed to be invented by the said Blizzard and Mather, without the consent or license of the Gavit Paper Machine Works.

GAVIT PAPER MACHINE WORKS,

224, 226, 228 and 230 N. Broad street.

PHILADELPHIA, PA.

PAPER-MAKING MACHINERY paper Will Property

FOR SALE.

The undersigned offers for sale, in whole or in part, a large line of second-hand Paper-making Machinery, consisting of One 78-in., one 78-in., one 62-in., one 42-in. and one 36-in. Fourdrinier Machine.
One 36-in., one 42-in., one 48-in., one 52-in., one 54-in., two 62-in., one 68-in., and one 72-in. Cylinder Machines.
One hundred and twenty-seven Skeleton Dryers, 36 in. by 80 in., with pulleys, gears, &c., all complete and nearly new, used in drying animal-sized writing papers.

and nearly new, used in drying animar-sized writing papers.

One stack of Chilled Calender Rolls, consisting of two 14-in. diameter and six 7-in. diameter, all 76-in. long on face, together with stands, boxes, &c., all in first-class order.

One stack of nine Soft Iron Calender Rolls, 62 in. on face; also a large variety of Calender and Press Rolls.

Rolls.
One stack of seven Super Calenders, 30-in. face.
One stack of six Super Calenders, 30-in. face.
One stacks of Straw Board Calenders, from 30-in.
to 40-in. face.
Four baniels Rag Cutters.
One Rope Cutter, one Cane Cutter.
Two Straw Cutters.
One Wood Chopping Machine.
Ten Iron Dryers, 36-inch diameter, 40-inch face, with ateam pipes, driving pulley, clutch and pinion, all complete, also Eighteen Brass Paper Rolls (no felt rolls).

with steam pipes, driving pulley, clutch and pinnon, all complete, also Eighteen Brass Paper Rolls (no felt rolls).

Eight Iron Dryers, 14 in. by 35 in., in good order. Price \$150, cash.

Nine Steam Engines, from 19 to 60 H. P.

Four Double Flue Steam Boilers and one large Locomotive Boiler.

One large Steam Pump.

Two Rag Dusters.

One Rag Thrasher.

Two 48-in., one 54-in., one 62-in. and one 84-in. Paper Cutters.

One Gould Patent Engine.

Two Kingsland Patent Engines.

One Standing Press, with gun-metal screw, plate 34 in. by 48 in.

Twelve Cutting Presses, from 27 in. to 45 in. wide. Six Making Cylinders, of different sizes.

One set of three Reels, 62-in. face; one set of six Revolving Reels, 76-in. face; one Sizer for a 62-in. machine; oneWinding Machine, one Size Washer, together with an extensive list of Miscellaneous Machinery, including fifteen Rag Engines, including five 36-in. rolls, one 38-in. rolls and one 42-in. roll, four Rotary Rag Boilers, 5x16 in.

One large Rotary Globe Boiler 14 feet in diameter, will stand 199 lbs, steam pressure, and well adapted for boiling wood or Straw Directors.

One Peaslee Straw Washer.

One Set of Artesian Well Tools.

PAPER MILLS.

Twenty Paper Mills in Massachusetts, New York, Connecticut, Pennsylvania, Ohio, Michigan, Kentucky, Virginia, Georgia and Illinois, containing the following size machines: One mill with two 72-lm., one with one 78-in, one with one 78-in, and one with one 48-in. Fourdrinier Machine; one with one 72-in, and one 72-in, and one 62-in, one with one 72-in, one with one 72-in, one with one 72-in, and one 36 in, two with one 56-in, each, one with one 52-in, and one with one 48-in. Cylinder Machines.

The undersigned is also agent for the following

The Risdon Improved Turbine Water Wheel. which produces more power for the water used than any other water wheel in the world. Catalogue and price-list sent on application.

The Bagley & Sewall Rotary Force Pump, dapted especially to Paper Mills (see advertise another column).

The Lahousse Process for Reducing and Bleach ing Straw Pulp,

Now in successful operation in over sixty mills in Europe. It will give a larger yield and produce a better pulp for the chemicals used than any process in existence.

He also offers his services as a Consulting Engineer and Expert in the erection, alteration and equipment of paper mills, and in paper-making processes. With an experience of over twenty years in the manufac-ture of paper, gained both in this country and in Europe, he purposes to make his services valuable to whoever shall require them.

EDWARD CONLEY. No. 74 Duane Street, N. Y.

Market Review.

OFFICE OF THE PAPER TRADE JOURNAL, FRIDAY EVENING, August 10, 1877. THE MONEY MARKET—Shows continued

ease, the supply of loanable funds remaining full. The rates for call loans range between 1% and 3 per cent. The banks and trust compa nies are loaning at 4 per cent. Commercial pa per of prime rating and short date is readily taken, but second-class paper is not much sought Government bonds are quiet but generally firm, no special feature being noticeable. Rail-road bonds are moderately dealt in, and the changes in quotations are slight. State bonds are very quiet.

The gold market has experienced very little change; speculation is rather tame and the price fluctuates within a narrow range. The quotations for the week are:

Highest, 1051/2 1051/2 1058/4 1058/4 Aug.

The Foreign Exchange market is very dull. The mercantile demand is insignificant, and that from bankers is light and scarcely sufficient to keep rates firm. The quotations to-day are: Sterling, 60 days, \$4.85 to \$4.851/4; sterling, sight, \$4.861/4 to \$4.861/4; commercial sterling, prime long, \$4.83½ to \$4.84½; commercial sterling, good long, \$4.82½ to \$4.83½; Paris, bankers', 60 days, 5.18½ to 5.16½; do. sight, 5.15½ to 5.14%; Antwerp, bankers', 60 days, 5.18% to 5.16%; do. sight, 5.16% to 5.13%.

THE PAPER TRADE.—The general aspect of the market has not changed since the date of the last review; and there is nothing left but to record the same state of comparative dullness which has ruled during the summer months. As to the future of trade very few are willing to express any decided opinion, but there is a generally expressed belief that the movement of the crops, which on all sides promise to be generous es, will be the signal for a brisk demand for all classes of merchandise, and the paper mar-

ruled very quiet during the past week. We hear of no large transactions, the trade being exclusively in jobbing lots at 31/4c. to 3%c. cash and time, at which figure several hundred bales have been taken, the market closing steady at quotations. The only arrival thus far this month has been the Cape of Good Hope, with 4,098 bales, at this port. Advices from Calcutta still continue to quote high prices in that market. Cables of 1st, proximo will probably throw more light on this subject and give a better idea of the course of the market for the next three or four months.

FOREIGN RAGS AND PAPER STOCKS .-Nothing new has been developed in the market during the week just passed. Neither the volume of trade nor the average of prices show any improvement over the weeks immediately preceding. Most buyers keep their purchases down very close to the margin of actual wants, and so throw the burden of carrying stock on the importers. There is, of course, some movement in Linens, but it is small, and so far as prices are concerned very unsatisfactory to the owners of stock. Cotton Rags remain in a very inactive state, and can hardly compete with the present low prices for domestic stocks. Waste Papers still meet with a limited amount of attention, the different grades of Shavings being about the only stock inquired for. Baggings have a less animated inquiry and there is more of a surplus in market at present than at any time during a number of months past; this applies more particularly to the lower grades of stock. No. 1 is held with some show of firmness and thus far only moderate concessions have been made, but No. 2 and under has been offered quite below quoted rates. Late London advices report a very quiet market. Strong Linens move some, but Cottons are much neglected and are offered lower. Waste Papers are dull but held quite

DOMESTIC RAGS.—The improvement in de and which obtained last week has slackened up and the movement has settled back in the same quiet lines as was noted a few weeks since. The stocks are tolerably full and some lots are offered at what appears to be very low figures. Reliable packings are, however, held for the full quoted prices and holders seem confident of an increased demand and better rates at no distant day. Sales include 200 bales City Seconds at 2c.; 50 bales No. 2 Whites at 31/2c.; 25 bales City Whites at 5%c.: 25 bales New Seconds at 4%c.

WOOLEN RAGS.-There is a well defined inquiry for almost all grades of Woolen Rags and the movement is quite full and steady, prices being firm at quoted figures.

OLD PAPERS.—The market continues in pretty much the same condition as has been recently reported. There is an easy but reasonably steady movement at the low figures ruling. The stocks in hands of packers are not over-large and do not appear to accumulate materially. The hanging mills have not been in the market to any great extent, as so far in the season they have only been running on small orders. What the effect on the classes of stocks used by them will be when they become larger purchasers re mains to be seen, but no one seems to be holding on for an advance. Good No. 1 Shavings are moving off in a quiet way at about quoted rates, but other grades are not much sought. Pure Manillas are selling steadily at old prices, and good lots are not over plenty. Sales are noted of 50 bales Fure Manillas at 3½c.; 10 tons Solid Stock at 4c.; 50 bales No. 1 Light Stock at 2½c.; 10 tons Commons at 70c.; 10 tons Newspapers at

BAGGINGS, &c.-While there is still considerable movement in Baggings the inquiry has essened very materially from what it was a few Many of the largest purchasers are eeks ago. fully supplied both for present wants and for some little time to come, and so are out of the market. The supply of strictly No. 1 is in advance of the demand, but is not particularly large, and the quoted price is held with considerable degree of steadiness, an occasional lot only being offered under the old rate. No. 2 and poorer is being offered in quite liberal quantities at some concession from the figures recently asked; this is especially the case with some of the very poor stock which has been received, most of it having to be sold at less than invoice price. Rope does not develop any new activity and is still offered at low rates. Sales are reported of 25 tons No. 2 Bagging at 2½c., 60 days; 25 tons No. 1 English Bagging at 3%c.; 20 tons Manilla Rope at 3%c.; 20 tons No. 1 Manchester Bagging on private terms; 10 tons Manilla Rope at 31/2c.; 5 tons Hemp Twine stock at 4c.

STRAW-Is still neglected and in quite full stock. The prices have not changed much, and quotations remain at Long Rye, old, 60c. to 70c.; new, 45c. to 60c.; Short Rye, 30c. to 50c.; Oat, 45c. to 50c.

ROSINS.—The lower grades are in fair demand and coutinue quite steady in price. Fine grades are in good inquiry, and are quoted rather

CHEMICALS.-The tone of the market is rather better; there is more inquiry for some of the heavy chemicals and holders do not appear willing to offer such liberal concessions as have been made of late. Carbonated Ash is held pretty firmly and has moved in quite liberal quantities. Caustic Ash has a fair share of inquiry. Caustic Soda continues dull and is reported in full stock. Sal Soda is strongly held. Bleaching Powders have been in more demand during the week, but are not materially improved in position. Other kinds do not show any change worth speaking of. Sales include 150 casks Bleaching Powders at 1.56% c. currency; 80 tons Soda Ash at 1.95c. gold; 50 drums 60 per cent. Caustic Soda at 4%c. gold; 25 tons Sal Soda at 1.35c. gold; 200 barrels Lump Alum at 21/cc. currency; 100 barrels Ground Alum at 2%c. currency: 100 harrels Potash Alum at 2%c currency: 50 barrels Concentrated Alum at 2%c. currency; ket must share in the general improvement of 225 barrels Natrona Porous Alum at 3½c. curbusiness. business.

JUTE BUTTS.—The market in this article has

JUTE BUTTS.—The market in this article has

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JUTE BUTTS.—The market in this article has

casks Bichromate at 131/2c, currency; 50 tons English China Clay at \$18,50.

THE COAL MARKET. - Considerable activity has manifested itself in the market for Anthra cite during the past few days, and in cases where sales have been made the prices obtained have been at an advance of from 50c, to 75c, per ton over those prevailing previous to the strike This advance, however, is considered only temporary, and a lower range is anticipated as soon as the troubles existing come to an end. There is at present no scarcity of stock, as the supplie are abundant at all the shipping points-the present advance is due to the exciteme caused by the efforts made by many dealers, who look for a still higher range, to increase their stock. Bituminous remains quiet, prices not be ing quotably higher. Saward's Coal Trade Journal of August 8 says: "Since the date of our last, Anthracite has advanced and it has also declined. The maximum was reached on Thurs day afternoon last, when it was stated that the Reading Co.'s men were to go out next morning Prices were stated to be #4 for Stove coal, but buyers were not plenty. On Friday and Satur day a calmer feeling prevailed and the market has now settled down to the prices quoted els where. From these rates there will not be much decline we fancy, no matter what may come t pass. Regarding the situation, we find that the Lackawanna men, and also those of Wilkesbarre, are out for an advance in wages, with no great prospect of receiving it; particularly if the Reading keep at work. If these men do continue at work, we cannot see that the Wilkesbarre and

NEW YORK MARKET.

Lackawanna can make anything by standing

idle."

PRICES CURRENT.

Paper Market. . @\$0.30 @ 25 @ 20 @ 17 @ 25 @ 17 @ 18 % 10 @ 13 13 13 11 10 8 8 73 16 14 News, straw
News, common
Hanging, Superfine, No. 1
Hanging, Superfine, No. 2
Hanging, Superfine, No. 3
Hanging, Superfine, No. 3
Hanging, White Blank, No. 1
Hanging, White Blank, No. 2
Hanging, White Blank, No. 3
Hanging, White Blank, No. 3
Hanging, White Blank, No. 3
Hanging, Suff.
Hanging, Buff.
Hanging, Buff.
Hanging, Buff.
Hanging, Buff.
Hanging, Buff.
Hanging, Suff.
Hanging @ 55,00 @ 55,00 @ 50,00

50 30 21 25 17 26 20 218 × 18 × 16 × 16 Wrapping, ₩ 10 apers, 16-sheet qu 35 @ 45 @ Woolen Rags. Comforter Stock. Reds, old. Reds, new Shirt Clippings.... Mixed Softs, free of Carpets New Black Clips
New Blue Clips
New Felts
New Fancy Shirt Cuttings
New Fancy Linsey Cuttings
New Fancy Linsey Cuttings
New Satinets, clean stock
Seams and Satinets,
Delaines, stripped for extract
Black Shoe Lastings
Blankets.
Wool Carpets
Mixed Carpets
Mixed Carpets
White Linseys
Mixed Linseys
Mixed Linseys
Mixed Linseys 14 21/4 234 3 114 314 114 3 6 3 6 1 6 6

Rags, Rope and Bagging. Rags, Rope and
White Shirt Cuttings, No. 1.
White Shirt Cuttings, No. 2.
Mill Assorted Whites
Unbleached Muslins
City Whites
New Canton Flannels
New Cotton Strips, light.
New Cotton Strips, dark
No. 2. Whites
Cotton Canyas 7140 Canvas.... Country Mixed
Seconds (City)
Seconds (City) Extra.
Colors, per 100 B
Manilla Rope.
Manilla Rope.
Manilla Rope.
Manilla Rope.
Gunny Bagging, No. 2.
Kentucky Bagging, No. 2.
Kentucky Bagging
Burlap Bagging
Tar Shakings
Hemp Twine Stock
Jute Waste
Shavings

4½@ 1548 Shavings and Old Paper.

tons			-
-	Hard White Shavings, No. 1	516@	554
	Soft White Shavings, No. 1	5 @	516
vity	Mixed Shavings, part white		478
hra-	Solid Stock	4140	416
here	Hard White Shavings, No. 1. Soft White Shavings, No. 1. White Shavings, No. 2. Mixed Shavings, part white Ledger and Writing. Solid Stock Book Stock Book Stock, No. 1, light Book Stock, No. 2, light Prints	21400	234
have	Book Stock, No. 1, light Book Stock, No. 2, light	21/60	29%
ton	Prints Pure Manillas Bogus Manillas and Hardwares	114600	186
rike.	Bogus Manillas and Hardwares	1140	37%
tem-	Binder's Board Cuttings	1140	182
soon	Straw Board Cuttings	80 6	1
here	English Rags, &c.		
plies	New Cuttings, cotton	740	8
-the	Essex Fines London Fines, cotton Outshots, cotton	5% (G)	6
ting,	Outshots, cotton	5 600 -	and the same of
who	Seconds Extra	31400	394
heir	Thirds.	1246.GB	250
t be-	Checks and Blues	4146 3146	332
rade te of	Outshots, cotton Seconds Seconds Extra Thirds New Print Tabs Checks and Blues Light Prints Light Prints Light Flustians Dark Fustians Black Calicoes First Canvas Linen Second Canvas Linen	3120	394
also	Dark Fustians	25 753 5005	23/8
urs-	First Canvas Linen	5166	21/4
the	Second Canvas Linen	41/4/0	136
ing.	Gunny Bagging, No. 1	47/8@ 31/8@	314
but	Second Canvas Linen Black Bagging Gunny Bagging, No. 1 Gunny Bagging, No. 2 Mixed Bagging, No. 2 Mixed Bagging, No. 1 Burlaps Bagging, No. 1 Rope, Manilla Rope, Manilla Lute Ropes Jute Threads	2%(@ 21/4@	212
tur-	Burlaps Bagging, No. 1	294(6)	23/4
rket	Rope, Manilla	314 @	3%
else-	Jute Ropes	3 6	354
auch	Jute Threads	3160	334
ne to	English Old Papers and Sh	avings.	497
the	Hard Shavings, No. I Soft Shavings, No. 1 White and Colored Shavings, No. 1	41/400	25
arre,	White and Colored Shavings, No. 1	3 @	314
reat	white and Colored Shavings, No. 2	51/600	534
ead-			454
e at	Newspapers and Pamphlets, extra	4140 3140	162
and	Paper-Collar Cuttings. Ledgers, Briefs and Letters Newspapers and Pamphlets, extra Old Newspapers and Letters New Books, Solid Folios Old Flank Rooks	25660	256
ding	Old Blank Books	4140	432
	Old Blank Books Brown Papers White and Buff Railway Sheets	13466	136
T	Railway Tickets	1 6	-24
	Hamburg Rags, &c.		
	LINENS.	***	
	Linen Cuttings	740	714
	ODE WE Long halo	940	65%
	S P F, square bale	5140	514
25	S P F F F, long bale S P F F, square bale S P F, square bale F F, square bale L F X, square bale Extra Fine Blue Linen, light color.	412.00	43%
20	Extra Fine Blue Linen, light color	5146	514
2514	L F B, square bale. L F B, long bale. Gunny Bagging, No. 1. Burlap Bagging, No. 1	4160.	
25	Gunny Bagging, No. 1	414@ 8 @	436
17	Burlap Bagging, No. 1	2140	274
10	COTTONS.	88/0	100
18	CSPFFF, square bale	5140	516
13	CSPFF, long bale	5 @	5)3
11	CSPFF, long bale	4 6	454
8	CSPF, square bale	3146	334
734	Shirt Cuttings, square CSPFFF, square bale CSPFFF, long bale CSPFF, square bale CSPFF, square bale CSPFF, square bale CSPFS, square bale CSPF, square bale CFR, square bale Extra Fine Blue Cotton CFB, square bale	2146	217
16	C F B. square bale	3160	356
14	C F B, square bale	6126	-78
_	Rope.		
8	T R (tarred)	3160	394
6	M R (manilla)	3140	876
536	Old Passess	19/10	-
1136	Old Printed Books	37400	4
15	Imperfections	3340	4
11	Colored Papers	- 6	214
- Tare	Old Book Paper Old Printed Books Imperfections. White Shavings Colored Papers Printed Papers Writing Papers	2146	212
1814			494
1134	Legnorn and Genoa Ra		
	PP No 1 Linens	gs.	m
1012	P P, No. 1 Linens	614@ 534@	634
	P P, No. 1 Linens S S, No. 2 Linens T T, No. 3 Linens	614@ 534@ 5	694
1012	P P, No. 1 Linens S S, No. 2 Linens T T, No. 3 Linens P, No. 1 Cottons S, No. 2 Cottons	614@ 544@ 5 @ 514@	694 6 594
1012	P P, No. 1 Linens. S S, No. 2 Linens. T T, No. 3 Linens. P, No. 1 Cottons. S, No. 2 Cottons T, No. 3, Cottons R R linen stripes	614@ 534@ 5 8 514@ 314@	694 6 594 4 1
1012	P P. No. 1 Linens S S. No. 2 Linens T T. No. 3 Linens P. No. 1 Cottons S, No. 2 Cottons T. No. 3 Cottons R R, linen stripes R, ordinary stripes	614@ 534@ 5 8 514@ 314@	694 6 594 4 8 536
1012	P P, No. 1 Linens S, No. 2 Linens T T, No. 3 Linens P, No. 1 Cottons S, No. 2, Cottons T, No. 3, Cottons R, R, linen stripes R, ordinary stripes B C C B	614 @ 514 @ 514 @ 314 @ 224 @ 5 224 @ 224	694 6 594 4 8 596 3
1012 913 814 7 5	P P, No. 1 Linens S S, No. 2 Linens T T, No. 3 Linens P, No. 1 Cottons S, No. 2, Cottons T, No. 3, Cottons R R, linen stripes R, ordinary stripes C C B	514 @ 514 @ 5 14 @ 5 14 @ 214 @ 224 @ 234 @ 234 @ 214 @	694 6 594 4 1 594 3
1015 915 816 7 5 80.00 0.00	P P, No. 1 Linens SS, No. 2 Linens T T, No. 3 Linens P, No. 1 Cottons S, No. 2, Cottons T, No. 3, Cottons R, linen stripes R, ordinary stripes R C C C C C C C C C C C C C C C C C C C	614 @ 514 @ 514 @ 314 @ 224 @ 5 224 @ 224	694 6 594 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
1012 912 812 7 5 23 9 8 0.00 0.00	P P, No. 1 Linens SS, No. 2 Linens. T T, No. 3 Linens. P, No. 1 Cottons S, No. 2, Cottons T, No. 3, Cottons R, linen stripes. R, ordinary stripes. R C C B C S C C Alexandria Rags.	514@ 514@ 514@ 314@ 224@ 234@ 234@ 214@ 214@	694 6 594 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
1036 914 836 7 5 8 0.00 0.00 0.00 0.00 0.00 0.00	Leghorn and Genoa Ra P P, No. 1 Linens. S S, No. 2 Linens. T T, No. 3 Linens. P, No. 1 Cottons S, No. 2 Cottons T, No. 3, Cottons E R, linen stripes R, ordinary stripes C C C C Q Alexandria Rags. Whites Blues.	5140 5140 5140 3140 2140 2140 2140 2140 2140 2140 2140 2	694 6 594 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1036 914 834 7 5 8 8 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Blues. Colors.	514@ 514@ 514@ 314@ 224@ 234@ 234@ 214@ 214@	634 534 8 536 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
914 914 834 7 5 8 8 0.00 0.00 0.00 5.00 5.00 5.00 5.0	Blues. Colors.	614 60 614 60	63/4 53/4 1 53/4 23/4 23/4 23/4
1036 914 834 7 5 8 8 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Blues. Colors.	614 60 614 60	694 6 594 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
914 914 834 7 5 8 8 0.00 0.00 0.00 5.00 5.00 5.00 5.0	SPFF SPFF FF	614 60 61	694 6 594 1 596 3 3 294 296 296 296 6 5144
914 914 834 7 5 8 8 0.00 0.00 0.00 5.00 5.00 5.00 5.0	SPFF SPFF FF	614 60 61	694 6 594 8 596 8 296 296 296 296 296 296 296 296 296 296
914 914 834 7 5 8 8 0.00 0.00 0.00 5.00 5.00 5.00 5.0	Memel Rags.	614 60 61	694 6 594 8 596 8 224 236 236 246 246 246 246 246 246 246 246 246 24
914 914 834 7 5 8 8 0.00 0.00 0.00 5.00 5.00 5.00 5.0	Blues Colors Memel Rags. S P F F S P F F F F G L F B Trieste Rags.	6440 6440 6540 6540 8540 8540 8540 8540 8540 8540 8540 8	694 6 594 1 8 594 2 2 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1012 934 836 7 5 83 9 8 8 0.000 0.000 0.000 5.000 5.000 5.000	Whites Blues Colors Momel Rags S P F F S P F F F F F G L F B Trieste Rags S P F S F F	## 64 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	694 6 594 1 8596 2 294 2
914 914 834 7 5 8 8 0.00 0.00 0.00 5.00 5.00 5.00 5.0	Momel Rags.	6440 6440 6540 6540 8540 8540 8540 8540 8540 8540 8540 8	694 6 594 1 594 2 594 2 594 2 594 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
1012 934 836 7 5 83 9 8 8 0.000 0.000 0.000 5.000 5.000 5.000	White Ship West Ship	## 64 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	69/4 6 59/4 8 59/4 8 59/4 8 59/4 49/4 51/4 49/4 6 49/4
1056 9156 9156 75 5 80.00 0.00 0.00 0.00 0.00 0.00 0.00	Memel Rags.	6440 6440 5440	5% 4 n 5% 4 n 5% 4 n 5% 4 4 6 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6
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1016 981 981 981 980 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Whites Blues Colors Memel Rags. S P F F S P F F F F G L F B Whites S P F S F F S	54 00 54 00 54 00 54 00 54 00 54 00 54 00 54 00 54 00 55 00 54 00 55 00	694 694 4 m 594 4 m 594 204 204 204 204 204 404 404 404 404 40
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1016 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Memel Rags. Memel Rags.	5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 6540 6540 6440	-
1012 9814 9814 775 880,000 9884 9884 9884 9884 9884 9884 9884 9	Memel Rags. Memel Rags.	5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 6540 6540 6440	-
101.5 98.5 98.5 7.7 5 8.0.00 9.000 9.000 9.000 9.000 9.000 1.0000 1.0000	Memel Rags. Memel Rags.	5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 6540 6540 6440	-
1016 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Memel Rags. Memel Rags.	5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 5440 6540 6540 6440	-
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BOSTON MARKET.

If there is any change it is for the better. There seems to be rather more inquiry for goods.

Paper Stock. Mill Assorted Whites

Cotton Canvas.
Cotton Canvas, No. 2
Linen Canvas
White Shirt Cuttings
Country White Rags.

	254			
	Ountry Mixed Rags Oity Whites, No. 2 Seconds, Country Colors Manilia Rope. Binders' or Tar Board Cuttings. Oommon Papers. Ookum Junk. Hemp Rope. Gunny Bagging. Kentucky Bagging. Hard Woolens, old Boft Woolens, old Bard Woolens, old Hard Woolens, new Jute Butts. White Collar Cuttings White Collar Cuttings White Envelope Cuttings. Hard White Shavings, No. 1 Soft White Shavings, No. 1 Mixed Shavings (% white) Imperfections Light Prints. Manilla Envelope Cuttings, new.	- 2580 - 1 60 - 7 60 - 5 60 - 5 60 - 5 40 - 4140 - 10 - 83460 - 5 400 - 5 400 - 5 400 - 5 400 - 4 400 - 2 400 - 4 400 - 2 400 - 4	314 439 254 3376 1 5376 5 11/2 11/2 11/2 4 4 24/4 21/2 21/2 21/2	TO CONTRACT THE SERVICE SERVIC
,	P P, No. 1 Linens S, No. 2 Linens T T, No. 3 Linens P, No. 1 Cottons S No. 2 Cottons T, No. 3 Cottons Alexandria Rags	5 6 5 6 51/4 39/4 31/4	71/4 6 51/4 6 4 31/6	
	Whites Blues Colors. Smyrna Rags.	27/4/G 21/4/G	3 2%	089
	Whites Blues Red Mixed Canvas, No. 1 Canvas, Good Tarred Rope Constantinople Rag	2790 4 (5 3 (6) 2 (6) 2 (6)	11/6	15000000
	Whites Blues Reds Mixed	234@ 234@ 214@	=	SCARGE
	New Papers. Superfine Book. Fine Book. Rags Yews, No. 1 Ordinary Rag News Straw News Manilla, Cream, No. 1 Ordinary Wrapping Manilla. Manilla, No. 2 Bogus Straw Wrapping Hardware, No. 1 Hardware, No. 1 Hardware, Straw Boards, airdried, \$\frac{1}{2}\$ ton Straw Boards, steam-dried, \$\frac{1}{2}\$ ton Straw Boards, steam-dried, \$\frac{1}{2}\$ ton Leather Boards, \$\frac{1}{2}\$ bo Leather Board, No. 2. Leather Board, No. 2. Leather Board, No. 2.	12 (0) 101-2 (0) 101-2 (0) 112 (0) 12 (0) 12 (0) 13 (0) 14 (0) 15 (0) 16 (0) 17 (0) 18 (0) 18 (0) 19 (0) 11 (0) 18 (0) 11 (0) 18 (0) 11 (0) 18 (0) 11 (0) 18 (0) 11 (0) 18 (0) 19	9 716 616 316	CSPMGHS VN
	Alumínous Cake, gold Alum, English lump, \$\psi\$ Alum, English lump, \$\psi\$ Alum, English ground Alum, American lump Alum, American lump Alum, American lump Alum, American lump Alum, American Potash Alum, ground, Concentrated Anti-Chlorine Bi-Chromate Potash, Scotch, cur'y Bi-Chromate Potash, American, cur'y Bi-Chromate Potash, American, cur'y Bi-Chromate Potash, Scotch, cur'y Bi-Chromate Potash, Gold Caustic Soda, 60 & cent., gold Caustic Soda, 60 & cent., gold Caustic Soda, 60 & cent., gold Caustic Soda, 70 & cent., gold Clay, American, \$\psi\$ Drussiate Potash, American Bosin, catta gold Rosin, No. 2 Rosin, No. 1 Rozin, pale. Bal Soda, N. C. & D, gold Sal Soda, American, currency Soda Ash, gold Soluble Blue Sugar Lead, Brown Sulphuric Acid, 66 degrees Terra Alba, \$\psi\$ ton Ultramarine, \$\psi\$ D, gold Venetian Red, \$\psi\$ D Vitriol Blue Vellow Ochre	15.00 @ 1 15.00 @ 1 1 @ 10 10 th 1.30 th 251/4@ 2 2 % 1 21/4@ 4.00 th 4.75 th	7.00 7.00 114 1014 1.40 65 26 236 236 38 4.50 5.00 1.40 114 1.40	cli fi h h n co ci ti R g
	PHILADELPHIA M		ET.	a
	White Rags Mill Assorted White Rags White Shirt Cuttings, No. 1 White Shirt Cuttings, No. 1 White Shirt Cuttings, No. 2 Cotton Canvas, No. 1 Cotton Canvas, No. 1 Cotton Canvas, No. 2 Bluss and Thirls Cutors Jute Butts Gunny Bagging Manila Rope Soft Woolens Hard White Shavings, No. 1 Soft White Shavings, No. 1 Soft White Shavings, No. 1 Mixed Shavings, No. 1 Hixed Shavings, No. 1 Hardware and Manillas Straw Board Cuttings Binders' Board Cuttings Binders' Board Cuttings Leghorn Rags.	514 (d) 534 (d) 76 (n) 554 (d) 4 (d) 254 (d) 76 (n) 77 (d) 78 (d)	394 3 5 376 816 516	a = Tong ph
	P P, No. 1 Linens. 8, No 2 Linens. T T, No. 3 Linens. R R. P, No. 1 Cotton S, No. 2 Cotton T, No. 3 Cotton. B, No. 4 Cotton. Hard Woolens.	634@ 534@ 434@	2	CN
	New Papers. Plate. No. 1 Book, white and tinted Superfine Book, white and tinted Fine Book, white and tinted Fine Book, white and tinted No. 2 Book. Oolored Glazed Mediums Bag News, No. 1 Ordinary Rag News Straw and Wood News. Bleached Manila, No. 1 Ordinary Manila Bogus Manila Straw Wrapping Glazed Hardware Unglazed Hardware Tissue Manila, 24 - 36 Tissue, white, 29 - 39 Tea Papers, 14 - 29 Tea Papers, 13 - 18	14 @ 18 11 11 10 11 14 10 11 14 10 11 14 10 11 14 10 11 14 10 11 14 10 11 11 11 11 11 11 11 11 11 11 11 11	20 18 16 14 12 10 16 9 9 9 9 6 3 3 4 9 8 1.25 1 8 0 5 5 4 5	a to p

is Cake, currency

	Alum, porous, currency	17
	Anti-Chlorine 5 @ 6	
	Bleaching Powder, currency 1.50@ 1.65	ti
	Caustic Soda, gold 438@ 498	a
	China Clay, English, \$\text{20}\$ ton, currency 18.00 @ 18.50	B
	China Clay, American, \$\varphi\$ ton, cur'y 10.00 @ 14.00	P
	South Carolina Clay, \$\gamma\ ton \dots 12.50 \text{(a) 13.50}	1 -
	Terra Alba, English, & ton	1
	Terra Alba, American, 12 ton 12,00 @ 15,00	
	Prussiate of Potash, yellow 23 @ 25	1
	Bichrome of Potash, Scotch, currency 17 @ 20	1
	Copperas, American, printe @ 11/8	1
	Extract Logwood 1014@ 1114	1
ı	Orange Mineral, gold 11 @ 1134	
	Rosin, good strained 2.00 @ 2.25	1
	Rosin, No. 2 2.35 @ 2.65	B
1	Rosin, No. 1 3.00 @	1
	Rosin, Pale 4.00 @ 5.00	1
	Sal Soda, Alhusen's or Deacon's, cur'y 1566 2	
	Soda Ash, gold 2 @ 21/8	3
	Spanish Brown 114@	1
J	Sugar of Lead, white 18 @ 20	1
1	Sugar of Lead, brown	1
1	Sulphuric Acid 134 @ 234	
1	Ultramarine Blue, gold 22 @ 30	1
1	Venetian Red, American 11/2@ 21/8	1
1	Venetian Red, English 2 @ 23%	
1	Blue Vitriol	1
1	Yellow Ochre, American 34@ 11/8	
1	Yellow Ochre, French 21/20 51/2	M
1	***************************************	
1	-	

CURTOURNES A TO LA TO LA TO LA TOTAL TOTAL

Paper	Stock.
City, No. 1 Whites 54, Mill Assorted Whites, 5 White Cotton Canvas, No. 1. No.	Soft Woolens, mixed City City Common Wool Rags. 90 White Shavings, No. 1. 4 White Shavings, No. 2. 3 White Shavings, No. 2. 3 White Collar Cuttings 6 White Expedience Cut- tings Manilla Envelope Cut- tings , new. Manilla Fapers, No. 1. 2 Manilla Papers, No. 2. 3 Manilla Papers, No. 2. 3 Manilla Papers, No. 2. 3 Sized Papers Flour Sacs. 3 Common Papers Straw Board Cuttings 90 Bindiers & Tar Board Cuttings Cuttings City Gunnles, No. 2. 2 City Gunnles, No. 2. 2

CHICAGO MARKET.

Cents.		Cen
City Whites, No.1 5 @516	Mixed Shavings.	
Seconds & Blues 4 @414 Print Rags No. 1 216@3	White Shavings	
Manila Rope 394@374	Book Papers,	-
Gunny Bagging. 21/2@3	mixed	
Hard Woolens. 2 @3	Print Papers	
Soft Woolens,	Flour Sacks Manilla Papers	
Clear	Common Paper.	3400
New Clips (free	Straw Brd Chips Seamed Cloth	51200

FOREIGN MARKETS.

London Market Report.

LONDON, July 28, 1877. Trade during the week was without any particular hange. Orders were received in our market for a imited amount only from home consumers; while innited amount only from nome consumers; while from America there were some rather large orders here at a little under market prices, which holders, however, declined to accept, and the latest cable news is somewhat unsatisfactory, as buyers, on ac-count of the railway disturbances, withhold their orders for the present.

RAGS.—Of strong linens a few contracts were closed, while Cottons were neglected, and although nolders in some instances made a reduction in prices here was a want of buyers.

WASTEPAPERS.-In these not much was done holders insisting upon full prices, while several offers were in the market at a little under quotations.

The French Market.

Paris, July 23, 1877. PAPER AND PAPER STOCKS.—Owing to the combined influence of the elections and the Exhibition the paper market is somewhat more active. tags, on the contrary and despite of this, are ne glected, except white Linen rags

WOOLEN RAGS.-The week has been fully as dull as last. Merino and old Stocking rags are, however, in tolerable demand, but all others are little sought

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Searching of Clear of previous patents.
Securing Patents in this country.
Securing Patents in this country.
Securing Posigns, Trade Marks and Copyrights.
Contesting Interferences.
Securing Protection in Foreign Countries.
Making Conveyances.
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Making Conveyances.

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Proceeding against Infringers.

Advising at all stages.

Mr. STETSON asks increased business on the follow-

ing grounds:
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Mechanical Training Mechanical Training.
Experience.
Central Location.
Modern Facilities.
Moderate Prices.
Personal Attention.
Good Assistants.
An Assistant in Washington.
Frequent visits there.
Best Foreign Agents.
Mr. Stetson represented the Messrs, Fairbanks in extending the Railroad Track Scale patent, Sir William Thompson in patenting the Atlantic Telegraph Instrument, and Mr. Corliss in patenting the Centennial Exhibition Engine.

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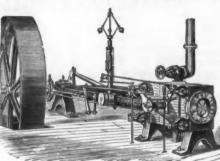
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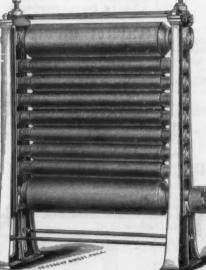
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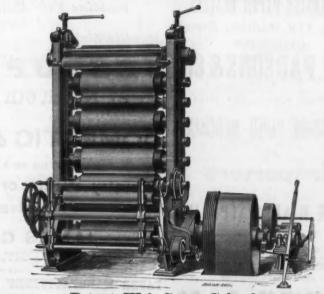
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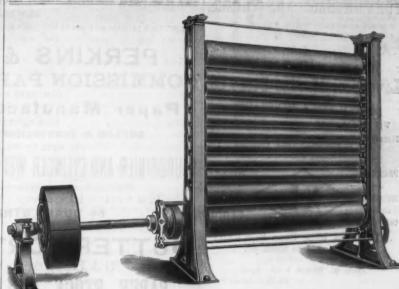
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