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### Trade Topics.

The Art of Paper-Making. FIFTH ARTICLE.

[Written Specially for The Journal.]

The construction of a mill for the manufacture of cellulose is still a matter of experiment. It is not pretended, therefore, that the following is the description of a mill in actual operation, but simply an expression of the writer's ideas (founded upon a practical experience in the manufact ure of cellulose from fir, spruce, poplar, and bass wood, with the Dixon, the rotary, and the ordinary stationary digesters) of what is the best form of a mill for this purpose. It is somewhat difficult in the absence of drawings to give a clear and distinct idea of plans and arrangements, but it will be my endeavor to make the meaning as plain as possible, trusting much to the intelligence and practical knowledge of the reader.

It is proposed to describe a mill with capacity to produce about five tons per day of white cellulose from poplar wood, or a proportionate quantity from other woods. For this purpose the apparatus and machinery required will be: Two steam boilers 5 feet in diameter by 16 feet long, made of steel 1/2 an inch thick, capable of sustaining a continuous pressure of 150 pounds to the square inch, with the usual number of flues 3 inches in diameter, the fire-place to be 5 feet 6 inches wide by 5 feet long, furnished with gratebars % of an inch thick, with 7-16 of an inch openings. The chimney must be placed as close as practicable to the boilers, and should be not than 100 feet in height. The flue from the boiler should be as short and direct as possible,

and of sufficient capacity to insure a good draft. There must be six iron tanks for preparing liquor, each of 10 feet diameter by 12 feet deep, made of the best tank iron, the shell 3-16 and the bottom 5-16 of an inch thick, the top to be bound round the edge with 2-inch angle iron, and each tank to be furnished with an iron agitator, having four heavy curved arms; the lowest one with drag chain attached. Each tank should also have a drop pipe, 3 inches diameter by 6 feet long, with a light chain fastened by an eyebolt to the upper end. On the lower end of the pipe, at the bottom of the tank, a double flexible oint is formed with two elbows, and connected through the shell with a stop-cock outside the tank, for the purpose of drawing off the liquor. By means of the chain and double flexible joint the pipe may be lowered as desired, and the clear liquor drawn off without disturbing the sedi-Two of these tanks will be used for purifying the black ash and four for making the soda ash into caustic soda liquor. Two tanks of precisely the same size and make, with drop pipe, but without agitators, are needed to be used for mixing and storing the liquor. Two more tanks of the same size and make as above, but with neither drop pipe nor agitator, will be wanted for storing the spent liquor previous to

evaporation.

There should be two rotary digesters, each 8 feet diameter by 18 feet long, made of the best boiler iron, the shell % and the heads % of an inch thick, double riveted by hand, chipped and caulked inside and out. The heads should be set nside the shell, 9 inches from the end, as shown in the illustration, to admit of the cast iron heads being made the full size of its diameter, and fitted inside and riveted to the shell. The pressure of the steam is thus sustained wholly by the wrought iron, the cast-iron heads having only to carry and turn the digester and its con-They are also placed in a better position to sustain the weight and do the work of turning the digesters than when they are riveted on to the heads. A pipe, E, arranged as a packing box, is screwed into the inside head and passes through the journal of the cast iron head, being further secured by a nut on the outside end, which projects far enough, thus making a passage way for the ingress of the steam, the same as in the ordinary rotary.

A strainer, D, is shown inside the digester fas

ned to the inside of the shell covering the blow-off pipe. This strainer, part of which is broken away, to show the blow-off, is drilled full of holes 1/6 of an inch in diameter and 1 inch apart each way, expanding to % of an inch on the underside. These holes seem small, but they are amply sufficient to let the liquor through and hold the pulp back. The man-holes, C, are placed one on each end, but on opposite sides, for the convenience of emptying, as will be shown in the explanation of the thod of working. There is, of course, a coil inside the digester for heating as usual; also a shower-pipe connected with a stop-cock or valve outside on the shell. The digester is turned at the rate of one revolution in five minutes by means of a gear fitted on the neck of one of the in drying, and it is therefore necessary to dry it cast-iron heads inside the journal, and is driven as slowly as possible to prevent cracking the

by a pinion or worm, as may be found most

One wood-cutter will be requisite. This machine consists of a heavy cast-iron disk, six feet in diameter, with three knives fastened to its face, near the circumference in an inclined position, so that the edge of the knife projects % of an inch from the face of the disk. A castiron shute is set facing the disk in a line with the knives. On the lower end of this shute a bed plate is fastened, the knives passing it as close as possible without touching. The disk along with a driving pulley is fitted on to a heavy shaft and revolves at the rate of one hundred and fifty to two hundred revolutions per minute. The wood, in lengths of four feet, and from four to eight inches diameter, is thrown into the shute, and sliding down to the face of the disk, is very rapidly cut into chips of half an inch to three-quarters of an inch in length. The impetus acquired by the chips in the cutting, assisted by four projections on the periphery of the disk, is sufficient to throw them into a fanblower properly set.

The fan-blower should be large enough to do its work easily. One with a 20-inch feed-pipe and a 16-inch discharge, running up to 1,500 revolutions per minute, will be sufficient to raise the chips thirty feet at the rate of one and a-half to two cords per hour. In placing the blower care ought to be taken to

set it so that the chips will go from the chipper to the centre of the fan in a straight line. In putting up the discharge pipe all right angles and horizontal lines ought to be avoided. This discharge pipe ought, if possible, to describe a regular curve as it rises from the blower to the point of discharge, which ought to be in a

room over the digesters, where the latter can be conveniently filled.

and wear and interest on capital on the entire 70 5 OD 500

### Paper-Making Notes.

BY PAPYRUS.

The question of drying tub-sized paper by ma chinery seems to excite some interest. It is true, as stated in The Journal some weeks ago, that in Great Britain such papers are all dried chinery; but it must be remembered that with the humid atmosphere of that country it is not possible to dry paper or anything else so quick as we can with the clear dry atmosphere of this country. Therefore, the system which is suitable for Great Britain may not suit the United States. In last week's JOURNAL a correspondent discusses the best method of accomplishing that mysterious process called setting the size. He seems to think that the paper ought to be cooled before it is sized, for the purpose of getting rid of the electricity; but the woolen drier felts used in Great Britain generate a greater quantity of electricity than the cotton drier felts we use here, and this fact may serve to modify our system of sizing and dry-

ing.

He seems also to think that the paper ought to lie some time after being sized for the purpose of setting the size. The tendency of animal size if kept in a moist state is to decompose or putrefy. Alum is used in the size principally to prevent this, and although to some extent it hardens it, yet its greatest use is to prevent this decomposition. The paper comes warm off the machine, passes through the warm size, is cut off in sheets which are piled up from three to five feet high. The only chance it has to cool a little is where it passes from the size tub through the cutter to the pile under the layboy. Here, then, we have the elements of decomposition, heat and moisture. The alum which has been used is the only thing which to some extent prevents these from doing their work on the size at once, but it only retards and does not entirely stop the decomposition. Everything which is piled up close, moist and warm, is in the best possible condition to hasten decomposition or putrefaction, and such is the state of tub-sized paper lying wet in bulk or hung up in a crowded loft deficient in ventilation. The disagreeable smell which much of the loft-dried papers have is sufficient to show that decomposition had at least begun before the paper was thoroughly dried, and I have known paper that laid twenty-four hours in reels after being sized have the same smell, although dried on a machine.

Paper passed through a solution of animal or vegetable gelatine and then through a pair of press rolls becomes what we call tub-sized. It is in reality covered and permeated with a thin film of gelatine. This gelatine shrinks largely

coat or film of size which the paper has received, and this slow drying is what we call giving the

Evaporation-Does It Pay?

BY WILLIAM ARNOT, F. C. S.

[Continued.]
Third—As to the influence of the cost and quality of fuel. It is a favori e question to put in reference to evaporation, How many tons of oal do you use to recover a ton of soda ash? and upon the answer the evaporator concerned is ned or upheld. This is a very unfair way of looking at the matter, but as paper-makers themselves believe in it, inventors, so-called, of evaporating plant are not slow to produce testimony as to the power of their appliances in that respect. A mill is taken where no river-pollution question exists, the strongest of the lyes only are evaporated, the workmen are specially instructed and looked after, and first-class coal alone is allowed to be used-the result is course, highly satisfactory. The same plant is erected where both thick and thin must be taken as it comes, to keep riparian proprietors quiet; the coals, too, are dear or bad, and the supervision of the men indifferently attended to. Where are the fine results now? The fact is, that the quality of the coal is a most import-

ROTARY DIGESTER FOR WOOD FIBRE. ant consideration, and, in view of the price to | all the circumstances have been carefully be paid for it, may decide the question of pay or not pay. I know one mill, for example where good clean round dross, costing 3s. 6d. per ton, delivered, is used, and another where the only coals available cost 19s, per ton. Granted that the latter are superior to the former, it is conceivable that they could be five and a half times better. In point of fact they have only one and a half times the heating power. It is further worthy of notice under this head that it may be quite possible to evaporate more

cheaply with a coal of which three tons are re-

quired to recover one ton of soda ash than with

to do the work; the former costing 5s. and the

variety of which only two tons are required

latter 8s. per ton, or in some such proportion. Fourth-The nature of the evaporating plant is of some consequence. This will be best illustrated by a reference to the experience of the North Esk (Midlothian) millowners, who were among the first that were driven to use the process; it had not then been ascertained what would or would not pay. Not to speak of a variety of troublesome and expensive plans, the subjects of at least a score of patents, which were thrust upon them, the best that could be one with the workable furnace recommended by Mr. Richardson, with strong esparto lye, was to recover one ton of ash with from six to eight tons of coal of average quality. That furnace was really the germ of almost all the existing ones; from time to time improvements were effected upon it, many of them under my own and direction, with steadily impre sults, until now, although essentially the same in principle, the appearance, stability, ease of working and economy of fuel, are all in striking contrast. The paper-maker, in considering as to the adoption of evaporation, ought keep in view that this is a process altogether outside his line of busine not likely to receive the same careful supervision that the production of his web does at the hands of his manager. He should, therefore, select a simple, easily-worked, strongly-constructed furnace, not liable to get out of order. and capable of giving fair results under the cir cumstances which obtain in the working of his nill. It has been found to be a matter of no little importance, in cases where river-pollution

be safely relied upon to work for a full year on end without serious repairs. An evaporator of that character, easily managed, free from liability to explosions, and neat and tidy both in its get-up and at work, seems to me to be very much what the paper-maker should aim at en some very alovenly evapsecuring. I have orating houses and furnaces in paper mills that were otherwise models of neatness and substantiality; such contrasts are neither seemly nor at the American Society of Civil Engineers, who ll necessary.
But a good evaporating furnace will not has been called to Holyoke in relation to the

necessarily give good working results. It is all- Ludlow Reservoir.

ons exist, to have an apparatus that may

The great test of turbine-wheels, which was to have begun at the Holyoke Company's flume next Monday, has been postponed to accommo date parties from distant States who did not decide to enter in time. It will probably not come off now for three weeks or more, and ample notice will be given. Some thirty applications have been made from all parts of the country. The test will be in charge of W. E. Worthen, of

and experienced men be got to work it. The management of the fires, the working of the liquor and magma in the hearths, the prompt discharge of the dry ash, and recharging of the hearths with liquor from the pans, and a score of other matters, all require skill and application. After the capabilities of a furnace and working staff, under reasonable supervision, have been ascertained, a very material improvement both in the out-turn of soda and reduction of coal will be found possible, if the men are given some little further inducement than a fair week's wages. Thus assuming that 25 tons of ash have been recovered by each furnace per month, with a consumption of 75 tons of coal, a fair arrangement would be to allow, say, 7s. 6d. per ton for every ton in excess produced and 3s. for every ton of coal saved. Suppose, under this stimulus, 28 tons of ash are produced, and only 65 tons of coal consumed, the result to the men would be an addition at the rate of something like 6s, per week to their wages. To the mill-owner the result would be three tons of soda, at 80s. (if used on the premises much more) and ten tons of coal at, say, 7s. 6d.-together £15 15s., less £2 12s. 6d, paid to the men; gain, £13 2s. 6d. per month—a sum amply sufficient to meet the tear

important to the securing of such that attentive

plant involved. Suffice it to add that such results have been attained in actual practice.

In view of the circumstances which I have just narrated it will not be pected that I should attempt to draw a line separating the paying non - paying spent soda liquors. Each case must be considered on its own merits, when

ascertained. I may state, in conclusion, how-ever, that with the improved appliances now available it is possible to make both ends meet with even a very weak lye, and I have frequently found that while the actual process of evaporation yielded nothing in the way of profit, improvements effected in the system of boiling, consequent on compulsory evaporation, have yielded a considerable annual saving. Paper-Makers' Circular.

#### United States Treasury Department.

4,118.—Adulterated Caustic Soda—Duty on. Collector of Customs, Philadelphia, Pa.,

This Department is in receipt of your letter of the 18th inst., transmitting the appeals  $(2,532\ f$  and  $2,533\ f)$  of Messrs. Geo. T. Lewis and Menzies Co. from your decision assessing duty at the rate of 11/2 cents per lb. on certain so-called caustic soda ash, imported per Indiana, May 12, and British Empire, May 6, 1879, which the appellants claim to be dutiable either at the rate of one-fourth of a cent per lb., as soda ash, or at the rate of 20 per cent. ad valorem, as a preparation of salts not otherwise provided for. merchandise in question is imported in air-tight iron drums, in the same manner as the ordinary caustic soda of commerce, and is a white granu lated substance which is composed of about 46.60 per cent, of caustic soda combined with carbonate and sulphate of soda, and differs from caus tic soda ash in that the latter rarely contains also appeal that samples have been submitted to chemical experts, and that they pronounce the article to be caustic soda, reduced in strength by the admixture of salt while in a molten condition, and afterwards broken up. The experts also represent that the article is valuable only on account of its caustic qualities, and that it would have been a very pure caustic soda had it not been artificially treated with salt during the process of manufacture. While the article may not be identical with the caustic sods of commerce, resembles that article both in material and the uses to which it may be applied. It is the opinion of the department that it was properly classified as assimilating to caustic soda, subject to duty at  $1\frac{1}{2}$  cents per lb. Your decision is affirmed.—July 29.

## Correspondence.

British Notes.

[FROM OUR REGULAR CORRESPONDENT.]

16 Paternoster Row, London, E. C., August 16, 1879.

Everybody is going out of town for the holi-The city is getting empty, and Saturdays especially present a dreary appearance. The seaside is a more attractive locale than the office. The weather is now warm and comfortable, and we are going to have a touch of summer just before the set in of autumn.

I have not very much trade news this week, as nobody is very much inclined to talk about business. The comparative enticements of Scarborough, Hastings or Margate seem to be the only topics really worth discussing. I see, by way of showing that I am speaking the solemn truth, that over 5,200 people crossed the channel from Dover to Calais last week.

However, poor correspondents have to derive their enjoyment from talking about these trips and wishing they could take them themselves. Under these circumstances, the subject is a painful one, and I must leave it.

I have heard from a few mills this week, and they report business as improving. One says:
"We are very busy, and business is quite brisk."
This mill, in the North, is always well supplied with large printing orders for railway work, so that its report must not in any way represent the state of trade at most of the mills making common printings.

On the other hand, I have received some rather plaintive accounts of business from paper stock dealers. One of our patrons says: "Trade is so dull we have no heart to advertise." Another says: "Business with us is so very quiet that we can't even afford to spend £5 in advertising. Both are dealers.

While speaking of advertising, I would say that this view is very incorrect. The worse business is, the greater should the strain be to get new orders. I think this is acknowledged to be correct. When a firm has all its time cut out to keep customers well supplied, it grows indifferent about hunting up business. The question then becomes, Is advertising a good way to hunt up new business? I am not going to say anything about it except that business hours are 10 to 4 for advertisements, and the London office of The Journal is the real panacea for all poor and distressed paper stock dealers. I am awaiting the visits and orders of such cust whom I quote advertisements at perfectly ruinous prices to me. So cheap!

We have a little sensation over here just now in which you have a share. It is about waste papers, and might be headed

THE S. O. WASTEPAPERS AND WHAT BECOMES OF THEM.

Among the various Government papers consumed by the stationery office for the public service are telegram forms. Old ledger, account book, pamphlet, letter and circular papers are of course among the waste of the stationery office as well. The ese papers are of the best quality and accumulate in large quantities. The supply of stationery to the Government has been for some time a nice plum sucked and enjoyed by Waterlow & Sons, to whom the waste S. O. papers are returned as a set-off against the stationery, on certain conditions. One condition is that the pink and white telegraph forms, at any rate, shall not leave the United Kingdom. or shall be destroyed in the United Kingdom. which is much the same thing. To guarantee this Waterlow & Sons are bound down by a bond of £- I prefer not to state the sum simply because I don't know what it is. Report says £300, and other report says £5,000, a lively margin for you to speculate upon.

On July 31 a sailing ship called the "Cornelius Grinnell," loading for New York, had on board, amongst other goods, some bales of paper stock On the same morning at 6 A. M.-note the hour-two Treasury Office gentlemen appeared on the scene armed with warrants to search the "Cornelius Grinnell" for some bales of wastepaper, marked so-and-so, numbers and weight. &c. Accordingly, the bales were seized and opened, when lo! the S. O. wastepapers! No deception, for I myself have seen a bundle of telegraph forms, whole and just as they left the public, and dated within a few months of this day. These forms came out of one of these

The bales were shipped by an East London dealer and were sold by him to another London dealer, who bought them for your side. I saw his bill of lading and samples of the parcel. I understand this trade has been going on for some time past, and a certain person, who used to figure in The Journal, was dying to get hold of these papers. As, however, he couldn't get them, he "split" the whole thing to our Government

The vessel was delayed nine days through this and sailed for New York on the 9th-a week

This is a very nice little game, indeed. Firstly, how about the bond! Will it be paid, will it be renewed, or will it be quietly looked over? Is it right to send away telegrams untorn, which are only a few months old! Is it proper to distribute our Government papers in this way at all, through a monopoly which injures the paper stock trade and robs the revenue!

The Government sells its dockyard stores old canvas, ropes, &c., by public auction to the highest bidder, and get a good value for them. Why are not the S. O. wastepapers sold in the same way? They would fetch a proper market price, and be open to the trade to buy. ought to be torn before leaving the S. Office It certainly does not appear to be of much consequence if the present system is allowed to go on, but the facts are plain, and here allow me to say that they are likewise indisputable. It is no good for any journal disputing or doubting them, for I myself have seen all the documents, invoices, and have obtained these particulars immediately from the present holder of the confiscated bales, and allow me to state he will sell them cheap to anybody here.

The above yarn does remind me of Judas' scandalous conduct. The dealer who wanted to buy these papers and couldn't get them had applied several times for them doubtless. In fact, he had been denied thrice, and immediately the cock crowed !

A new firm has started in the paper stock line. It is Jacob & Nicholson, of Tooley street, E. C. I wish the firm well.

The prices of rags will be found below: German Rags.—Market very quiet, though some contracts for best linens have been booked. N. W. L. C., new white linen cuttings, £25; N. W. C. C., new white cotton cuttings, £23 15s.; S. P. F. F. F., white linen, I., £25 12s. 6d.; S. P. F. F., do., II., £20 5s.; S. P. F., do., III., £17 15s.; F. F., do., IV., £15 10s.; W. C., white cotton (C. S. P. F. F. F. and C. S. P. F. F. mixed), £14 10a.; L. F. B., I., blue linen, L., £15 10a.; L. F. B., II., do. II., £13 5a.; B. C., dark blue cotton, prime, £13 5s.; C. P., colored prints, best quality, £10 10s.; J. B., jute beggings do., £7 15s, per ton. Terms: Free on board, Bremen or Hamburg, less 11/2 per cent. cash in a fort-

French Rags .- Market shows a little more animation; the same in wood pulp, where prices are stiffer, but no actual rise has taken place. New blue cotton and linen cuttings, £24 17s. 6d.; new blue linen cuttings, £26 15s.; new white cotton cuttings, £26 5s.; new light colored print euttings, £14 17s. 6d.; new gray cotton cuttings and new gray linen cuttings, mixed, £23; white linens, No. 1, £27 10s.; do. No. 2, £22 15s.; do. No. 3, £17 5s.; white cottons, No. 1, £22; do. No. 2, £18; do. No. 3, £13 5s.; white cottons and linens, mixed, No. 1, £20 10s.; do. No. 2, £13 5s.; light-colored prints, £12 15s.; dark-colored prints, £8 10s.; blue linens, £18; blue cottons, £14 15s. per ton. Terms: Free on board Lon-

don, less 1¼ per cent. cash in a fortnight.

Königsberg (Russian), are quoted ex steamer in London or Hull as follows: S. P. F. F. F., £25 per ton: S. P. F. F., £21; S. P. F., £18; F. G., £15; F. F., £14 5s.; L. F. X., £13 5s.

Esparto. - There is rather an improved demand for most qualities of esparto, but prices are without material change. Closing quotations are as follows, per ton, ex ship London: Spanish, fine to hest, £8 12s. 6d.; do. good average, £8 5s.; Oran, good average hand-picked, £6 10s.; do. fair average, £6 5s.; do. ropes and broza, £5 2s. 6d.; Susa, fair average, £7 15s.; Gabes Regency, or Sfax, good average, £6; Tripoli, good handpicked, £5 15s.; do., fair average, £4 15s.

Jute.-Cuttings, £9 15s. per ton, ex store London; rope, £10 10s. per ton; threads, £10 5s. to £11 15s. per ton; warp ends, £9 15s. per ton; clean rags, £8 15s. per ton; common bagging, £5 to £5 15s. per ton; jute ravelings, £5 15s. per ton, all ex warehouse, London.
Sundry Fibres.—Manilla hemp rope, £12 per

ton, in coils, f. o. r. London; Adam £9 per ton, ex store Liverpool and Hull; hemp cuttings, £8 15s. per ton, ex store London; palm leaves, £5 to £5 5s. per ton, ex ship London or f. o. r. Cardiff; palm leaf fibre, £4 per ton ex ship London or f. o. r. Liverpool, £3 17s. 6d. f. o. r. Cardiff; Indian grass, £3 5s. per ton, ex steamer London; flax waste, £16 per ton, ex ship London and Hull.

Wood Pulp. -There is a fairly good demand at present, more especially for aspen pulp and English unbleached pulp. Prices are without change, but an early rise would not be unex pected, as the supply scarcely keeps pace with the demand. Closing quotations are: Chemically Prepared-Bleached, £20@£21 per ton; unbleached, £14 5s.@£17 5s. per ton, ex wharf Hull or London; ex ship Hull or London, per ton: Pine, dry, £8 10s.@9 5s.; do. moist, 50 per cent., £4 5s.@£4 10s.; aspen, dry, £10 10s.@ £11 15s.; do. moist, £5@£5 7s. 6d.; do. dry flake, £10s. 10s.

Chemicals.—As anticipated, the week's business will not suffer from comparison with that of its predecessor. It has been distinguished by a fair amount of activity both on home and foreign account. Additional interest is being manifested in late autumnal supplies, and negotiations on this account are more numerous, while makers apparently alive to their own interests, refuse to book orders for delivery a couple of months ahead, except at a tolerable advance. Consum ers are slightly more tractable, and disposed to make their forward requirements known. To say the least this is prudent, especially when it is followed by the covering of their wants for a moderate time forward. As the close of the shipping season approaches values annually rise for at least a few weeks, without any further incitement that the little extra demand then engendered. Therefore, as this period draws near the question of forward supply should be of considerable interest to co

which accordingly seized the vessel, as stated. prices are unchanged. In exceptional instances an advance is asked for forward delivery for this article, and also for white, but sellers find it very difficult to obtain. Bleaching powder continues in steady and sustained request, and makers generally are able to insist upon their own terms Ash is unaltered.

#### Boston Notes.

[FROM OUR OWN CORRESPONDENT.]

Boston, August 26, 1879. Favorable accounts are coming in from all ections, and manufacturers and dealers are preparing for an active trade. Indeed the campaign has already commenced. The increased activity noticed in trade here gives some indicacations that business is starting up all round. Business men are returning from the mountains and the seaside, and by the first of September "Richard" will be "himself again."

Conversation with several agents here shows that the paper manufacturers in New England are cheerful at the business outlook. Although the demand is nothing to brag of just now, yet there is a general understanding all round that stocks are getting lower among the jobbers and retailers, and that consequently the mills will oon be required to run on full time in order to fill orders.

Quite a number of agents are in Maine and New Hampshire making contracts for bass and poplar wood, one prominent firm alone having already contracted for 1,000 cords at a single point. I notice that a company has been formed at Portland, Me., for the purpose of manufacturing a variety of goods from wood and other kinds of pulp by a new process. Among other things, kegs, tubs, pails, &c., will be made of The process has been thoroughly tested.

During a brief visit to Lowell, a few days ago, among other industrial establishments visited was that of the Lowell Machine Shop, which manufactures paper machinery and furnishes plans for paper mills. This concern would find it greatly to their advantage to advertise in one or more of Howard Lockwood's trade journals.

A difference of opinion prevails among dealers as to the volume of paper stock on hand, some saying that the supply is considerably in excess of that of the corresponding period of last year, while others declare that the quantity is much less. However, as the case may be, there has been a perceptible improvement in the trade, occasioned, perhaps, by the protracted rains of last week, which prevented local shipments.

Many dealers are inclined to look for higher prices; and Holyoke reports are to the effect that manufacturers are purchasing whites at that point at 4.15 delivered, which is a fraction higher than Boston prices.

Among the stationers and paper dealers there is nothing particularly fresh to report aside from the fact, as has already been intimated, that general trade is improving. Several New York houses have had agents here during the week with new novelties in the stationery line, and these agents have met with a degree of success in placing their goods in this market.

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CUPERIOR to any other Anti-Chlore in use. It is a very in fine white powder, wholly unob-

jectionable to the most fastidious manufacturer. Adapted to fine Ledger and Writing Papers, Common Book or News, sized or unsized.

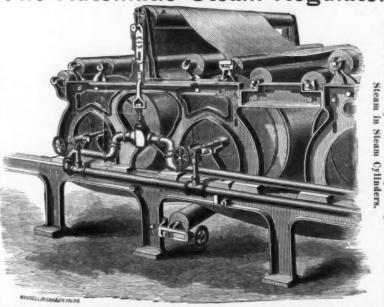
For Particulars, send to the Manufacturers for Descriptive Circular. MANUFACTURED BY THE

considerable interest to consumers. Cream RUMFORD CHEMICAL WORKS, - - Providence, R. I.

# SSELL PAPER CO.

Offer Paper Manufacturers the following Valuable Improvements in Paper Machinery :

# The Automatic Steam Regulator,



This is the only comple'e Regulator, as all others now in use only imperfectly regulate the pressure of steam from the boiler, while this not only controls the pressure of steam from the Boiler, but, by the contraction and expansion of the paper itself, insures uniformly in dryness, regardless of thickness of paper, or change in speed of machine, etc.

—Among the many Manufacturers who are using the Automatic Steam Regulator, we would name as those who have had it longest in use:

Messar, Jessup & Moore, Philadelphia, have 7.

Bulkley, Dunton & Co., New York, have 2.

W. W. Harding, Philadelphia Inquirer Mills, has 2.

Nisgara Paper Co., Niagara Falls, have 2.

Geo. W. Wheelwright & Son, Boston, have 3.

Messell Paper Co., Co., Bellows Falls, Vi., have 5.

Milkinson Bros., Birmingham, Ct.

Wilkinson Bros., Birmingham, Ct.

Albion Paper Co., Holyoke.

Montague Paper Co., Holyoke, have 3.

Crocker Paper Co., Holyoke, have 3.

Crocker Paper Co., Son, Boston, have 7.

Ball Mountain Paper Co., Seamington Paper Co.

Smith Paper Co.

Smith Paper Co., Saltand, N. H.

Earles, Palmer & Co., Skanesteles, N. Y.

Andrus, McChain & Lyon, Ithaca, N. Y.

J. A. Bacon, Lawrence.

#### PATENT CONE FOR JORDAN ENGINE.



This Cone rossesses material advantages in construction over the ordinary cone, and can be repaired edily at the mill and at much less cost than the ordinary cone.

This Style of Bar is also used in the construction of the roll for an ordinary Tub Engine,
REFERENCES.

S. D. Warren & Co. Contocook Paper Co. G. W. Wheelwright & Son Remington Paper Co. Bowdoin Paper Co.

Winnipiseogee Paper Co. Fall Mountain Paper Co. IN TUB ENGINES:

Geo. E. Davis. Winnipiseogee Paper Co. Fall Mountain Paper Co. Fisher & Clegg. Holyoke Machine Co.

### CARROLL'S PATENT-LOCKING EMPTYING VALVE.



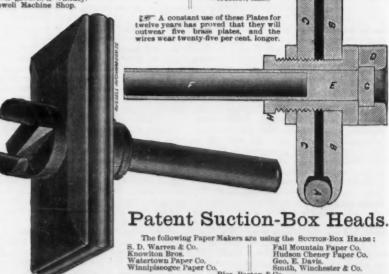
REFERENCES. S. D. Warren & Co. have 10 Burbank & Co.

#### Patent Hard Rubber Suction-Box Plates.

REFER.

S. D. Warren & Co., Cumberland Mills, Maine.
Messrs. Jessup & Moore, Manayunk, Penn.
Ledger Mills, Manayunk, Penn.
W. W. Harding, Esq., Manayunk, Penn.
Messrs. G. W. Wheelwright & Sons, Fitchburg, Mass.
Messrs. Tileston & Hollingsworth, Dorchester, Mass.
Fall Mountain Paper Company.
Winniplesogee Paper Company.

Parsons Paper Company, Holyoke, Mass.
Smith Paper Company, Lee, Mass.
Niagrar Falls Paper Company, New York.
Messrs. A. C. Denison & Co., Mechanics Falls, Me.
Remington Paper Company, Watertown, New York.
Lawrence, Mass.
Smith, Winchester



Fall Mountain Paper Co.
Hudson Cheney Paper Co.
Geo, E. Davis.
Smith, Winchester & Co.

RUSSELL PAPER CO., Lawrence, Mass. Address, for particulars and estimates,

#### DIRECTORY.

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

#### NEW YORK HOUSES.

Paper and Paper-Makers' Supplies.						
ANDERSON, J. F., JR., & Co.	, 34 Beekman st,					
BARRETT & CROTTY, Deale	rs in Paper and Twine, 85 Centre st., N. Y.					
BENEDICT & HIGHET.	118 William st					
HARD, MELVIN & SON,	25 Beekman st.					
HEWITT, C. B., & BRO.,	48 Beekman st					
HULBERT, H. C., & CO.,	13 Beekman st.					
JONES & SKINNER,	131 William st.					
MURPHY JOHN J. 4	7 John and 5 Dutch sts					

#### Rags and Paper Stock.

WATSON, GEORGE, JR.

63 Beekman st.

ATTERBURY BROS.,	253 & 255 Front st
BEEBE & O'CONNELL, Co per Stock Dealers,	ommission Paper and Pa 78 Duane st., N. Y
BRIGGS & TAYLOR,	60 Duane st
BUCHANAN & CO.,	16 & 18 Rose s
DAILY, TERENCE, Deale Rags,	r in Cotton and Woole 327 East 33d st., N Y
DALY, DANIEL, Metals, C	otton and Woolen Rag 366 Water st., N. Y
DAMERY, JAMES, Rags, W	aste Paper, Bagging, &c 259 Front st., N. Y
FITZGERALD, JAMES M.,	& CO., 37 South Fifth ave., N. Y
GROSS, FR. A.	253 Pearl s
GILDEA, PATRICK,	445 and 447 West 13th s
HARLEY, GEORGE, 362	, 365 & 367 Third st., N. Y
HAYWARD & MCNULTY,	6 Gouverneur slip, N. Y
KEENAN'S, OWEN, SON,	Established 1840. 448 Pearl st., N. Y
KENDALL BROS & GODI	DARD

6 Gouverneur slip, N. Y.
Established 1840. 448 Pearl st., N. Y.
DARD, hn st., cor. William, N. Y.
New Rags a Specialty. 3 Howard st., N. Y.
35 Park st.
35 & 36 Spring st
oreign & Domestic Wooler 535 & 537 E. 13th st., N. Y
27 Centre st
78 William st., N. Y
30 Hester st
398 Broome st
dec product be
of the celebrated Branc 1 Reade st., N. Y

#### TUCKER, JOHN, Dealer in Paper Manufacturers Stock, 201 & 203 William st., N. Y Paper-Makers' Chemicals and Colors.

HELLER & MERZ, Ultra	marine, 55 Maiden lane, N.Y.
KLIPSTEIN, A., Elepha	ant Brand Aluminous Cake, 32 Platt street, N. Y.
LEVINSTEIN, J., CAMP	BELL & CO., Blackley Blue, 42 Duane st., N. Y.
RIKER, J. L. & D. S.,	45 Cedar st.
SERGEANT BROS.,	78 William st., N. Y.
_	

#### Paper-Makers

ORRS	å	CO.,	Printing and Office	Ha	nging	Mills	at a	roy,
			Office	, 39	Park	Row,	New	York

	CIMICO	a cree .	T. COL SE	TAG
		_		_
Luka	Butt	D	akam.	
JUTE	DUTT	DIF	OKAP	E-

CABOT,	BOWLES & CO.,	85 Beaver
	Note Broker.	

#### COLBY, C. A., Buys and Sells Notes of Paper Manu

	S	tra	w Boards.	
DITEMBRIDATE D	**	-	P40 P 1 4	D-1-1

#### HAVES JAMES E & CO.

ALA LES	, oames	E. & CO.,	10 Du	emp er
		Wire Clo	th.	
LANG,	MARIUS,	Importer of	Wire Cloth, 14 Bleecker st.	, N. Y.

#### OUT OF TOWN HOUSES.

#### Binders' Boards.

SHEEDER, J. FRED., Mfr. of Album, and Button Boards,	Binders', Trunk Kimberton, Pa.
BARBER, J. & J. S., Paper Stock and	Binders' Boards,
621 and 623 Commerce st., P	'hiladelphia, Pa.

#### Dandy Roll Manufacturers. CHENEY BIGELOW WIRE WORKS

Ice	Cream	Boxes,	Wood	and	Paper	Plates
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#### Paper Bags and Flour Sacks

BLOOMINGTON PAPER AND BAG CO., "Acme' Satchel Bottom Bags, 38 & 40 La Salle st., Chicago, Ill.

# Paper Makers' Chemicals and Colors.

### BLANCHARD, J. HENRY, Chemicals and Wood Pulp. 36 Batterymarch st., Boston, Mass Paper-Making Machinery.

CUSHMAN, Manufactur	DWIGHT, rer of Flume	and Sci	Hartford, roll Turbine W	Conn.
EMERSON,	J. T., Pater	at Cone	Washer, Claremont	, N. H.
SMITH, WI	NCHESTER	& CO	South Windh	am. Ct.

#### Paper Manufacturers. CONSOLIDATED PAPER CO., 97 Washington st. Chicago, Ill. J. W. Frence, Pres.; C. M. SMITH Treas.; R. P. DART, Sec.

## JERSEY CITY PAPER CO., White and Colored Tissus and Manilla Paper, 205 Wayne st., Jersey City, N.J

#### Rags, Paper and Paper Stock.

ELLIOT, A. G., Pag	per & Paper Stock, 26 S. Seventh st., Philadelphia
MARKER, JOHN in Rags,	D., & SONS, Wholesale Dealers
SIMMONS, JOHN, Rage,	Wholesale Dealer in Paper and 20 & 21 Decatur st., Philadelphia

Rags, Paper and Paper Stock-(Continued). WALSH, D. J., & CO., 6 South Frontst., Philadelphia All Kinds of Woolen Rags Bought for Cash.

RLOCK & POLLAK, Paper Stock, 206 to 226 West Third st., and 39 to 57 McFarland st., Cincinnati, O. BUTLER, THOMAS, Dealer in Paper Stock, Wooler Rags, &c., 249 Causeway st., Boston, Mass DORAN, A., Wholesale Dealer in Paper and Paper Stock. 6 & 8 Union st., Bridgeport, Conn. B. FELSENTHAL & BROS, Paper. Bags, Twine, Wool en & Cotton Rags, 156-160 S. Desplaines st., Chicago HERT, WM., & CO., Paper and Woolen Mfs' Ma terials. 11 & 13 Market st., Chicago, Ill GRAHAM & BRO., H. B., Paper Warehouse and Stock HARRIS. M. & BROS., 408 & 405 Fifth ave., Chicago, lll. Branch Houses: Dubuque, Ia.; Burlington, Ia LOEWENTHAL BROS., Woolen Rags. Paper Stock. 10 & 12 No. Canal st., Chicago LANEY, JAMES, & CO., Dealer in Paper and Paper Stock, Cotton and Woolen Rags, Rochester, N. Y LOEWENTHAL. B., Dealer in Paper Stock and Woolen Rags. 51 W. Lake st., Chicago, Ili McARDLE & HART, Cotton & Woolen Rags and Paper Stock. 290 & 2 :1 West st., N Y., & Newburg, N, Y MARKLE, C. P. & SONS, Mfs. of Printing and Glazed Hardware. 126 Second av., Pittsburg, Ps.

MAYER, A. B., Rags and Paper Stock Dealer, 1014, 1020 & 1022 N. Twelfth st., St. Louis, Mo. NATIONAL PAPER CO., Holyoke, Mass. Dealers in Paper and Paper Stock Stock sold on Commission. RICHMOND & CO., F. H., Paper and Paper Stock Warehouse, Cotton Waste Dealers. Providence, R. I. SNIDERS, LOUIS' SONS, Manufacturers and Whole-sale Paper Dealers. 121 Walnut st., Cincinnati, O. WINKLER, ISAAC, & BRO., Wholesale Dealers in Woolen Rags, Paper Stock, and Manufacturers Supplies generally, 18 & 20 Main st., Cincinnati, O

#### Straw Boards and Straw Wrapping.

TUCKER'S, E., SONS, Straw Boards, Paper and Pa per-Box Mach'y, 100 Trumbull st., Hartford, Ct

#### Wire-Cloth Manufacturers

HOLYOKE WIRE WORKS, For Dandy Rolls, BUCHANAN, Box 463, Holyoke, Mass.	BOLT & CO., P. O
STANDARD WIRE WORKS	Belleville, N. J

STANDARD	WIRE	WORKS	Belleville, N. J.
	Wood	d Pulp	Board.
McCANN, Fi	TCH &	CONVE	RSE, Chicago, Ill. Sole Wood Pulp Board."

#### FOREIGN HOUSES.

W	lood	Pulp	and	Wood	Pulp	Board	S.
THE C	ОТН	ENBU	RG C	OMMER	CIAL	CO. (Li	mite
DITSTLE	ree Dr	munika	, en n	ameng	Lane,	Dondon,	Estilic.

#### 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 August 23, 1879, Quantity given in pack-

Aniline Colors	76	\$9,819
Alum	-	_
Aluminous Cake	-	_
Bleaching Powders	117	1,547
Soda Ash	1,391	29,555
Soda, Bicarb	1,250	2,506
Soda, Caustic	400	5,359
Soda, Sal	264	750
Ultramarine	-	
Books	208	14,892
Newspapers	46	2,827
Engravings	19	6,719
Ink	46	2,483
Lead Pencile	4	1,169
Paper	174	15,098
Steel Pens	4	2,488
Stationery	4	1,850
Slate Pencils	151	1,777
Clay	_	5,882
Jute Butta	5,698	42,098
Jute Rejects and Cuttings	1,498	10,518
Paper Hangings	2	70
Paper Stock	4,087	78,796
Terra Alba	_	996
Waste	_	_
Total		\$236,692

	TOTAL DEPORTS.	
Genera		
Anon	l Merchandise, for the week ending ist 22	#4 900 12º
Paper.	Paper Stock, &c	- Dalonolys
	he year ending May 23, 1873	15,074,82
Fort	he year ending May 22, 1874	12,150,85
For t	he year ending May 21, 1875	18,292,89
For	the year ending May 26, 1876	11,298,40
For 1	he year ending May 25, 1877	9,627,69
For t	he year ending May 24, 1878	10,246,413
Fort	he year ending May 23, 1879	9.561.09
Fort	he week ending May 80, 1879	221,699
For t	he week ending June 6, 1879	262,738
Fort	he week ending June 18, 1879	169,550
For	he week ending June 20, 1879	121,556
Fort	he week ending June 27, 1879	190,808
For	he week ending July 4, 1879	145,025
FOF	he week ending July 11, 1879	192,446
For I	he week ending July 18, 1879	265,974
Fort	he week ending July 25, 1879	219,53
Fort	he week ending Aug. 1, 1879	140,810
Fort	he week ending Aug. 8, 1879	181,01

# IMPORTS of Rags and Paper Stock at the Port of New York, since Jan. 1, 1879, from the follow-ing Ports, showing quantities from each Port.

-	Aleppo	Rags. Bales.	Paper Stock, Bales.	Manilla Stock, Bales.	Waste. Bales.
i.	Antwerp	1,816	1,792	-	81
	Bremen	2,458	784	466	279
	Bristol	180	687	191	
	Buenos Ayres	100	-	-	
I,	Calcutta	968	-	178	
	Cardiff	-	135		
0	Catania	774	-	_	-
	Cette	50	-		_
-	Colombo	9	-	-	
	Copenhagen	517		_	-
-	Dundee	_	1,639	460	-
L.	Genoa	1,147	_		-
	Glasgow	1,188	2,045	567	_
T B	Halifax	98	79	_	-
	Hamburg	2,196	522	273	_
d	Havana	_	40	-	-

	Bales.	Bales.	Bales.	Bales.
Havre	66	_	_	_
Hong Kong	373	-	-	-
Hull	5,607	1,716	1,527	-
Kingston	111	-	_	_
Königsberg	1,422	-		-
Leghorn	7,924	-		
Liverpool	2,249	2,783	3,266	140
London	1,454	12,093	5, 328	85
Malta	5:26	_	MARKAGE.	
Naples	1,026	-		_
Nuevitas	9	****	-	-
New Castle	6:28	-	591	-
Palermo	14	-	_	_
Para	-	8	-	entante e
Pillau	1,5446	-	-	-
Port-au-Prince	50	-	-	_
Rio Janeiro	105	-	_	
Rotterdam	-	147		_
Seville	is instead	17	-	-
St. John's	-	48	-	_
Shanghai	261		-	
Stettin			30	_
Trieste	1,197	-	-	-

#### EXPORTS of Paper, Books, &c. from the Port of New York to Foreign Ports, for the week ended Aug. 27, 1879, with Aggregates and Values.

BOOKS, cases, to Danish West Indies, 3; to Argentine Republic, 3; to British Honduras, 24; to Havre 2; to Liverpool, 6; to United States of Colombia, 3; to China, 1; to Venezuela, 1; to Bremen, 2; to Mexico, 2.

PAPER, to Hamburg, 9 cs.; to Liverrool, 2 cs. to Glasgow, I cs.; to British Honduras, 150 rms.; to British West Indies, 80 pkgs.; to Cuba, 30,000 rms., 5 pkgs.; to Hayti, 59 pkgs.; to United States of Colombia, 9 pkgs.; to Venezuela, 6 pkgs.; to Brazil, 1,000 rms.; to Porto Rico, 300 rms.; to Bremen, 5 cs.

STATIONERY, cases, to Hamburg, 4; to Liverpeol, 22; to Havre, 1; to Cuba, 29; to Argentine Republic, 7; to United States of Colombia, 32; to Veneguela, 3; to Brazel, 1; to Bremen, 1; to Mexico, 5.

Paper, reams	31,450	\$4,949
Paper, pkgs	159	1,468
Paper, cases	15	575
Books, cases	47	3,076
Rosin, bbls	2,314	6,647
Stationery, cases	105	8 821
Totals	34,090	\$25,536

	A CAME CONT.	
	General Merchandise, for the week ended August 20, 1879	6,211,877
	Paper, &c., for the year ended May 27, 1873.	2,889,482
	Paper, &c., for the year ended May 26, 1874.	1,783,877
6	Paper, &c., for the year ended May 25, 1875.	2,327,682
	Paper, &c., for the year ended May 23, 1876.	1,654,384
	Paper, &c., for the year ended May 29, 1877.	1,790,669
	Paper, &c., for the year ended May 28, 1878.	1,576,562
	Paper, &c., for the year ended May 27, 1879.	1,889,783
a	Paper, &c., for the week ended June 8, 1879.	33,811
	Paper, &c., for the week ended June 10, 1879.	59,813
	Paper, &c., for the week ended June 17, 1879.	35,609
	Paper, &c., for the week ended June 24, 1879.	23,039
	Paper, &c., for the week ended July 1, 1879.	26,995
	Paper, &c., for the week ended July 8, 1879.	40,385
7	Paper, &c., for the week ended July 15, 1879.	29,052
•	Paper, &c., for the week ended July 23, 1879.	18,109
5	Paper, &c., for the week ended July 30, 1879.	37,787
	Paper, &c., for the week ended Aug. 6, 1879.	37,787
6	Paper, &c., for the week ended Aug. 13, 1879.	39,546
	Paper, &c., for the week ended Aug. 20, 1879.	18,148
ria.		-

#### NEW YORK IMPORTS.

FROM AUGUST 22 TO AUGUST 29, 1679, INCLUSIVE.

Rags, &c.
E. Storey Smith, Daniel Steinmann, Antwerp, 118 be linen and cotton rags.

Lee & Sturges, by same, 508 bs. linen and cotton rags; 51 bs. paper waste; 88 bs. rags. W. I. Clark, by same, 85 bs. paper stock.

Jonas Phillips, Dorian, Leghorn, 110 bs. linen rags. Lockwood & McClintock, by same, 6 bs. rags. W. H. Parsons & Co., Utopia, London, 2 bs. rags. E. Storey Smith, John Keppler, Bremen, 189 bs.

linen and cotton rags; 50 bs. gunny rags.

Cohn, Lazarus & Co., Auguste, Hamburg, #2 bs.
linen and cotton rags; 83 bs. old rope; 14 bs. old

Hagemeyer & Brunn, by same, 190 be. rags; 57 be

John W. Mason & Co., Erin, Liverpool, 48 bs. rags

Briggs & Taylor, Coringa, Liverpool, 99 bs. paper Briggs & Taylor, Prince Louis, Liverpool, 140 be

John W. Mason & Co., Arragon, Bristol, 118 bs. old

Steglich & Baese, Main, Bremen, 4 cs. Geo. J. Kraft, by same, 1 cs. W. Heuermann, Britannic, Liverpool, 4 bs. B. P. Lawrence, by same, 5 cs.

#### BOSTON IMPORTS.

FROM AUGUST 21 TO AUGUST 27, 1879, INCLUSIVE Washington the names of importers of merchandis at this port are withheld from the press. Parties wishing their names to appear in the reports of imports will please communicate with J. Henry Blanchard, No. 36 Batterymarch street.—Ep.]

J. Willicot, Atlas, Liverpool, 1 cs. Boston Athenæum, by same, 2 cs. C. G. Loring, by same, 1 cs.

N. J. Bartlett, by same, 5 ca. J. Alexander, by same, 1 cs. E. A. Snow, by same, 1 cs. and music. A. S. Marsh & Co., by same, 1 cs.

G. B. Wilbur, by same, 1 cs. Stone & Douner, by same, 10 cs

Paper.

J. L. Fairbanks & Co., Canopus, Liverpool, 3 cs.
C. Reid, Atlas, Liverpool, 1 cs. manufactured.
A. P. Schmidt, Iberian, Liverpool, 7 cs. music.

Paper Stock.

E. A. True & Co., Minnesota, Liverpool, 43 bs. paper S. D. Warren & Co., Iberian, Liverpool, 130 bs

Warren & Co., Canopus, Liverpool, 63 hs. paper T. Butler, Worcester, Halifax, 9,686 lbs. paper stock; 5,515 lbs. rags. S. A. Comey, Worcester, Liverpool, N. S., 34 bs.

Haskins & Montague, by same, 16 bs. paper stock, Jute.

C. C. Bancroft, Eclipse, Calcutta, 2,169 bs. butts 500 bs. rejections. Edmands Bros., by same, 1,500 bs. butts.

A. A. Cobb & Co., by same, 3,545 bs. butts; 742

Ralli Bros., Lucile, Calcutta, 6,096 bs. butts. Edmands Bros., by same, 1,634 bs. rejections. Soda Ash.

Linden & Meyer, Iberian, Liverpool, 113 cks. J. L. & D. S. Riker, by same, 39 cks. W. F. & F. C. Sayles, Minnesota, Liverpool, 35 cks. Howe & French, Canopus, Liverpool, 10 cks. re-

Caustic Soda.

E. B. Fowler, Brazilian, Liverpool, 30 drums and

Bleaching Powder.

Morey & Co., Iberian, Liverpool, 100 cks. W. F. & F. C. Sayles, Minnesota, Liverpool, 50 cks. Warren & Co., Canopus, Liverpool, 320 cks.

Sal Soda. Warren & Co., Canopus, Liverpool, 280 bbls.

China Clay. J. Henry Blanchard, United States, Savannah, 48

Morey & Co., 1 y same, 52 cks.

Hide Cuttings. Order, Woodside, Buenos Ayres, 7 bs. Baeder, Adamson & Co., Canopus, Liverpool, 156

#### PHILADELPHIA IMPORTS.

Paper.
Charles Beck, Lord Clive, Liverpool, 5 cs. A. Ward, by same, 1 cs.

Soda Ash. rder, Lord Clive, Liverpool, 70 tcs. Order, J. V. Troop, Liverpool, 65 tes.

Caustic Soda. Order, J. V. Troop, Liverpool, 194 drums

Bleaching Powder. Order, J. V. Troop, Liverpool, 111 tes.

Cryolite. Pennsylvania Salt Manufacturing Company, Alba

#### BALTIMORE IMPORTS.

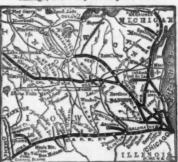
#### Books.

R. Schumacher & Co., Strasberg, Bremen, 1 cs. R. Schumacher & Co., Hibernian, Liverpool, 2 cs. Stationery.
W. T. Walters & Co., Hibernian, Liverpool, 1 cs. Paper Hangings.
L. C. Dieter, Hibernian, Liverpool, I cs.

The Chicago & Northwestern Railway

Leading Railway of the West and Northwest.

Leading Bailway of the West and Northwest,
It embraces under one management 2,198 miles of
road, and embraces the following Trunk Lines:
"Chicago, Council Bluffs & California Line,"
"Chicago, Sloux City & Yankton Line,"
"Chicago, Sloux City & Yankton Line,"
"Chicago, Freeport & Dubuque Line,"
"Chicago, Freeport & Dubuque Line,"
"Chicago, Ha Crosse, Winona & Minnesota Line,"
"Chicago, Miwaukee & Lake Superior Line,"
"Chicago, Green Bay & Marquette Line,"



OF THE CHICAGO AND NORTHWESTERN RAILWAY. The popularity of these lines is steadily increasing, and passengers should consult their interests by purhasing tickets was this line.

Tickets over this line.

Tickets over this route are sold by all coupon ticket of the company of the coupon ticket of the coupon ticket

BROKERS IN

#### BUTTS JUTE

REJECTIONS.

#### COMPANY CLAY STAR

OFFICE:



WORKS:

Mertztown, Berks County, No. 220 South Second St.,

PHILADELPHIA, PA.

PENNSYLVANIA.

#### MINERS AND MANUFACTURERS OF WHITE CHINA CLAY, Especially adapted to Paper Makers' use.

SMITH, WINCHESTER & CO.,

South Windham, Conn., MANUFACTURERS OF

# PAPER MACHINERY

CONSISTING OF

FOURDRINIER AND CYLINDER MACHINES, Washing and Beating Engines.

FOR DRYING SIZED PAPERS.

Sole Manufacturers of the JORDAN PATENT BEATING ENGINE, Which has no rival for clearing the stock for fine papers.

CHILLED IRON & PAPER ROLL

# SUPER CALENDERS.

Plate Calenders.

Chilled Stack Calenders, Rag Cutters, Hand and Power Cutting Presses, Stop Cutters.

THE HATCH PATENT

### Stop Cutter,

The only Cutter that can be regulated to cut between water marks of writing papers.

### SCREENS.

BRASS AND NICKEL PLATED.

The latter warranted to wear twice as long as brass, BED PLATES, ROLL BARS,

FAN AND PLUNGER PUMPS.

# Gun Metal Covered Rolls.

FOR SIZE AND PRESS ROLLS.

STEVENSON

#### WATER WHEELS

Shafting and Mill Gearing Generally.

# 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, AUGUST 30, 1879.

Advertisements cannot be received for insertion in he current week later than 9 a. m. on Friday. The harge for advertising is 25 cents a line, each inser-Special terms for standing and displayed adertisements to be had on application. Card in Directory Column and one copy of paper, \$10 a year. THE PAPER TRADE JOURNAL is the recognized organ the various Paper-Makers' Associations of the

THE JOURNAL contains the latest and fullest in ormation relative to the paper trade in all parts of he world, including descriptions of new appliances and processes for making paper, experiments with new fibres and other materials, a record of the water upply, with the latest manufacturing news in all arts of the country. It gives the cream of all the oreign technical journals which relate to the paper nterest, besides communications from compe persons in the trade, both at home and abroad. The market review and quotations show the state of trade n all the principal cities, and no pains have been spared to make these accurate and complete.

Subscription and postage for Great 

per annum... 25 france ription and postage for Ger-

many, per annum ..... 24 reichsmark 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.

#### All communications must be addressed to HOWARD LOCKWOOD,

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

BRANCH OFFICES.

New England Office: J. F. RIDAY, General Manager, 36 & M BROMFISLD STREET (Wesleyan Building), ON, MARIE

Western Office: 8 LAKESIDE BUILDING, CHICAGO. Philadelphia Office: 702 CHESTNUT STREET

Detroit: F. H. DRAKE & Co. (Agents for Mich

#### FOREIGN GENERAL AGENTS.

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Elfwing & CoStockh	olm Sweden
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Leonardo PardoVigo, S	аг, орын.
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G. Gade Christia	ana, Norway
J. H. de Bussy Amster	dam, Holland, and
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lands	
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#### TO CORRESPONDENTS.

As THE PAPER TRADE JOURNAL is the recognize as THE PAPER TRADE JOURNAL is the recognised websicle of communication in matters of trade interest, we will be glad to receive correspondence from all parts of the country. Information and suggestion upon paper-making topics are especially valuable, and manufacturing news and personal items. are equally acceptable.

Subscribers to THE JOURNAL can be supplied with rket. Deliverable at the heat cloth binder in the marke the publication office. Price, \$1.25.

Readers of this paper who avail themselves of the nformation obtained from its coluans, by advertisement or otherwise, are requested to notify their cor-

TRADE is improving. We speak generally. and referring to our market report we might even apply our remark specifically. Going over the different reports of business here and in other parts of the country there is nothing to dispute the statement we have made. A great change has come over us; confidence is assured; industries have revived; people are employed; crops are abundant; the demands of consumers are larger and are increasing; our currency is stable, and the Government is paying dollar for dollar. What other factors are needed to show that prosperity has set in? None, we think. It may be set down, therefore, that the hard times are virtually over with us. The outlook in foreign countries is not so bad, we think, as it has been. Europe is still complaining of depressed and dull trade, but there are reason-Recovery will naturally be slow. We have found it so; but hard times cannot last. the rag export duty.

The British trade are still in the "dumps but we notice that there is a change, how ever slight, in the tone of the reports from Great Britain.

WE print to-day a report of a suit brought to recover the price of a sample bale of rags, which formed the basis of a purchase which, it is alleged, did not compare with sample. We give considerable space to this report because, although the money amount involved is small, it covers a question of difference which frequently arises in the trade and from which reclamations and law suits have origin. It will be seen that in this case the civil justice before whom the suit was tried decided that there was no breach of warranty, but refused to give judgment for the sellers of the rags, thinking that the buyers were entitled to some counterclaim. We think that if there was no breach of warranty the plaintiffs were entitled to recover, and that the rule of caveat emptor under which the purchaser is expected to look out for himself should apply. There does not appear to be any proof of fraud in the sale, and the purchase of the sample bale seems to have been a separate transaction.

ANENT advertising. Our London correspondent tells us of people who find business too poor to advertise. If these people persist in such methods of thinking they will find themselves too poor for anything. The most judicious investment of money for a business man is to tell people through the medium of a standard paper that he is ready to do business. In dull times an advertisement is a reminder to the buyer of wants which he will supply as early as he can; it serves to attract trade, which is always floating around, even in the hardest of times, and gives the advertiser a chance to bid as low as any one else. In flush times, when business is active, advertising makes goods go off, and the purchaser is not at a loss to know where to pick up his supplies. In short, advertising at all times is putting money where it will do the most good. Disbelievers in this theory will have faith in its practice after one experienceprovided they advertise judiciously.

THE French Chamber of Deputies has refused to abate the tax on paper, rejecting the amendment of Mr. Laroche-Joubert to abolish the duty on and after December 1, 1880. This result has been taken to heart by the French paper trade, and it is alleged that the deputies have not fulfilled pledges which were made favoring the repeal. Mr. Laroche-Joubert supported his amendment in a speech, showing the general advantage of the abolition of the tax and pointing out how manufacturers more than recover the tax in the prices asked for their product. It will be seen that Mr. Laroche-Joubert, although representing the paper-making interest, took broad ground on behalf of consumers. The trade in France, however, favor the abolition of the tax. The amendment was defeated by a vote of 133 in favor to 227 opposed. We have not yet heard of the result of the proposition to abolish the French export duty on rags. Our latest advices, of date August 17, state that the subject would come before the Chamber at its next session. The French dealers in this class of stock have had very hard times of late and have been quite at the mercy of the paper manufacturers, who, availing themselves of almost every other class of stock or material capable of being worked into paper, have been able to fix prices to suit themselves or compel the stock dealer to put his goods in store. We presume our own paper-makers would be glad to reach similar conclusions in buying stock, but we must remind them that there is a great deal of miserable paper made in France, the like of which we would be ashamed to make in this country. It will be understood, therefore, why rags are plentiful and cheap in France. The export duty and limited demand keep down their able hopes that the worst has been reached. price. The French paper trade, it is hardly necessary to say, is opposed to the repeal of

#### Communications.

as anything of value or interest to impart. of news, trade gossip, and personal information will be gladly received. Correspondents are requested to write only on one side of the paper. No responsi-bility for the opinions of correspondents attaches to this paper. Communications must be sent to reach this office by Wednesday night or Thursday morn-

#### Up in Vermont.

St. Johnsbury, Vt., August, 21, 1879. To the Editor of The Journal:

It is a long time since I wrote to THE JOURNAL. I have been very sick and of course had not the inclination, even if I had the subject. My first move out was to the Lyndon Pulp Mill, where I found everybody alive. This is the best privilege in the State of Vermont, and Mr. Wilder seem disposed to make it the mill of New England. This mill has a very fine canal some 300 feet long, leading from a natural fall above the mill, and giving an average head of seventy-three feet, and an almost unlimited supply of water.

Wilder & Co. have just built four cosy house for the help, and yesterday made a purchase of additional land, which it is proposed to divide into village lots and sell on installments to the workmen or any one who will move in and help build up the place.

A. A. Pierce & Son, of the Valley Falls Mill (below Wilder's), are making repairs and some improvements which I will tell you about in my

#### Changes, Removals and New Firms.

Samuel & Proud, stationers, Denison, Texas, have dissolved partnership.

The Terre Haute Express Printing Company, Terre Haute, Ind., has sold out.

R. P. Baker & Co., publishers of the Herald, Jasper, Tenn., have sold out to Parratt & Darr. Henry M. Pugh, bookseller and stationer. Beaver Falls, Pa., has removed to Wellsville, O. J. W. Beck, publisher of the Vincennes Re-

porter, Vincennes, Ind., has sold out to Bailey & Sittig & Wenbourne, publishers, Chicago, Ill.

have dissolved partnership. E. A. Sittig con-

The firm of Baker & Archer, printers, Philadelphia, Pa., has been dissolved. Chas. T. Baker J. S. Barron & Co., proprietors of the Claren-

don Press, Manning, S. C., have sold out to Henry Moore.

B. M. Chambers, publisher of the St. Louis Times-Journal, St. Louis, Mo., has sold out to James P. Beck.

W. W. Bailey & Bro., printers, Carlisle, Ind. are out of business, and have removed to Vincennes, same State. J. M. Bolton & Bro., paper manufacturers,

South Bend, Ind., have dissolved partnership. Bolton & Clark succeed. F. A. Packard & Co., paper dealers, Boston

Mass., have dissolved partnership. F. A. Pack ard continues under the same name and style. The St. Louis Times-Journal was sold at private sale, on Saturday, to James P. Beck, of St. Louis, for \$50,000, and A. S. Mitchell was in-

The firm of Reid Bros. & Co., wholesale and retail dealers in books, stationery, &c., London, Canada, has disposed of its retail book and stationery interest to J. I. Anderson & Co.

stalled as managing editor.

The firm of Green & Loomis, publishers of the Medina Gazette, Medina, Ohio, has been dissolved. F. R. Loomis has sold his interest to euben W. Clark. The firm name now is Green & Clark.

The firm of Billings, Harbourne & Co., stationers, of San Francisco, Cal., consisting of George E. Billings, John W. Harbourne, Alex. M. Robertson and Charles B. Turrill, has been dissolved by the withdrawal of Charles B. Turrill. The three remaining members of the firm will continue the same business under the same firm name.

#### Failures.

The Times Company, publishers, Vincennes Ind., has failed.

R. A. Marsh, printer, Amherst, Mass., has called a meeting of his creditors.

The stationery house of J. L. McC John, N. B., has been closed by the sheriff. The firm of D. M. Bishop & Co., publishers San Francisco, Cal., has applied for relief in

bankruptcy. The stock of C. E. Perry, booksaller and sta tioner, Elora, Province of Ontario, Canada, has

been advertised for sale by assignee. W. C. Watson, stationer and notion dealer, of Kansas City, Mo., has been in the city several days, endeavoring to effect a compro his creditors at twenty cents on the dollar.

At a meeting of the creditors of Robert A. Marsh, proprietor of the Amherst Transcript and job printing office, Amherst, Mass., claim to the amount of \$4,139 were presented, of which \$1,216 were secured, \$684 preferred claims, and \$2,288 unsecured. The assets are \$2,004.

The Secretary of the Stationers' Board of Trade has gone to Dayton, Ohio, on business connected with the bankruptcy proceedings of Payne, Holden & Co. It is understood that the creditors who are secured by mortgages have made an offer of compromise, and the Station ers' Board of Trade, having the interest of the larger part of the creditors in its hands, will endeavor to effect the most speedy and satisfactory settlement possible.

Adolph G. Dunn, the assignee of Lewis W. Schmidt, book publisher, 24 Barclay street, filed his schedule a few days ago, which shows liabilities of \$26,925.73, nominal assets, \$45,161.98 and actual assets of \$13,185.45. Among the creditors are Samuel D. Babcock, New York City, \$1,244 A. Amerman, Cleveland, Ohio, \$441.55; W. H. Parsons & Co., New York City, \$159.90; Knoblauch & Lichtenstein, New York City, \$4, 000, secured by mortgage on electrotypes school books; Louis W. Amerman, Cleveland, Ohio, \$7,000; J. H. Bachmann, Bremen, Germany, \$144; F. W. Christern, New York City. \$205.50; S. W. Green, New York City, \$253.01; C. Anger, New York City, \$161.79; C. Rumpler, Hanover, Germany, \$450; Cherouny & Kienle, New York City, \$143.25; Gustavus Freygang, J., \$260.30; Helen Hodgskin, Hoboken, N. Brooklyn, N. Y., \$1,880; Anna Schmidt, Hoboken, N. J., \$1,000; Sophia Hegewisch, Hoboken, N. J., \$104.35, and various other amounts of which \$8,780.17 is due to parties in France and Germany.

#### Chattel Mortgages.

[In the appended list, R. signifies a renewal of a pre-existing mortgage; b. s., bill of sale; and real, a mortgage on real estate.] Mortgagor. NEW YORK CITY.

Adams Bros	\$207
L. Borker (R)	945
Klim, Linder & Bauer (R)	1,665
C. & F. Schmolze (R)	1,800
BROOKLYN.	
T. J. Marcellus	884
EASTERN STATES.	
C. W. Keyes, Farmington, Me. (Real)	800
WESTERN STATES.	
Ingersoll Bros., Chicago, Ill	218
Dietrich & Wiehe, Milwaukee, Wis	47

A. Gfromer, Milwaukee, Wis..... Geo. West, Golden, Col.
Hill & Adams, Morrison, Ill. A. W. Bagg, Detroit, Mich. (R)..... Wm. Beers, Cincinnati, O.
C. H. Jahn et ux. and Sophia and Lenoir Jahn, Cincinnati, O. (Real)... 1,000 T. F. Zaiser, (of Zaiser & Homan) Cincinnati,

Wiseman & Harvey, Cleveland, O..... Croy, McFarland & Co., Dayton, O. (R)...

#### Attached.

1,486

The stock of J. C. Parkhurst, publisher, Aylmer, Province of Ontario, Canada, has been

The stock, &c., of W. F. Graham, publisher of the Meriden Republican, Meriden, Conn., has been attached.

#### Personals.

Thomas Strahan, dealer in paper hangings, Boston, Mass., is dead.

Jere. Horton, of Westfield, Mass., late senior partner in the firm of Jessup & Laflin, is about to remove to York, Pa., where he will take a position in the mill of his uncle, Alfred Jessup.

H. C. Hulbert has just returned to the city after a short vacation with his family at one of the seaside resorts on Long Island Sound. Mr. Hulbert has been much improved by this brief relaxation from business, and seems to have all of the vigor of youth.

John S. Bradford, the well-known packer of paper stock, and proprietor of the Clepington Steam Waste Works, Dundee, Scotland, arrived with his family in this city from Europe by the Canada on Thursday. Mr. Bradford will make his headquarters while in the city at the office of his agent, R. B. Briggs, 62 Duane street.

Mayor Whiting and family, of Holyoke, reached home on Monday. A complimentary parade and serenade took place the following evening. The procession moved through some of the principal streets to Mr. Whiting's house on Elm street, where the band played several airs. Mr. Whiting responded, speaking especially of the fear which foreign manufacturers have of American competition. At a London hotel where he stopped were three agents of American manufacturers, arranging for agencies for the sale of their goods. He thought that in twenty-five years our manufactures would be exported more freely than the agricultural products now are.

#### In Town.

H. C. Hurlbut, South Lee, Mass.; L. Richards, Unionville, Conn.; T. H. Hurlbut, North Man-chester, Conn.; J. A. Kimberly, Neenah, Wis.; E. G. Ogleshy. Middletown, Ohi

#### Fires.

J. M. Clark, bookseller, Hillsdale, Mich., has been burned out.

A fire broke out in a rag warehouse in the rear of the Cleveland Paper Company's establishment, Cleveland, Ohio, on last Saturday night, and communicated to the main building. The net loss of the firm is \$30,000. The insurance on the building is \$14,600; on stock, \$31,000; on machinery and presses, \$5,000, and on furniture, 81,000,

The large paper mill at Middle Granville. Washington County, N. Y., was destroyed by fire early on last Sunday morning. The mill was running on full time, and the fire throws twenty men out of employment. The loss is estimated at \$15,000; insured for \$10,000. The building was owned by the Saratoga County Bank, of Waterford. The mill was operated by Barber & Stickney.

The purest kaolin mine in New England, if not n the country, is said to have been found on Daniel S. Palmer's farm at Ledyard, Conn., and it is now being worked by the Lantern Hill Silex Works, with headquarters at Mystic Bridge. The mine is struck from 1 to 10 feet below the earth's surface, and the percentage of kaolin is said to be 97.83,

#### A Law Suit About Rags.

In the First District Court on Thursday, the mit of Fett & Sangstak against the Seymour Paper Company was heard before Judge Clancy. The suit was brought for the value of a sample bale of Hamburg rags marked F. F., the sale of which was the origin of a contract of warranty The answer to the complaint shows that on August 15, 1878, the plaintiffs sold and delivered to the defendant twenty-three bales and three bags of F. F. rags, weighing in all 24,935 lbs., at 31/4c. per lb., amounting to \$810.39; that such rags were purchased in consequence of the transaction as to said sample bale, and on the representation and assurance that they were of the same quality, and in all respects like the sample. The defendants on August 23, 1878, gave plaintiffs as to said last purchase their negotiable promissory note at four months for \$810.39, which defendants paid at maturity.

It is stated that after the giving of this note, and when the rags were opened to be used, it was found that they were not of the quality required by the sample. That 2,711 lbs, con sisted of iron, tarred canvas, painted canvas, and other material useless for the manufacture of the paper for which the rags were bought, and against the use and custom of the trade as to such grade of merchandise, and for which useless and refuse matter at 31/4c, per lb., it is claimed, the plaintiffs wrongfully received from the defendants the sum of \$88.10, and the defendants expended \$5.40 freight thereon, making in all \$93.50, which last sum, with interest thereon from December 27, 1878, the defendants set forth as a counter claim to the plaintiffs' cause of action.

The first witness examined was Charles E O'Hara. He said he was President and Treasurer of the Seymour Paper Company; that he was acquainted with one of the plaintiffs; that early in August, 1878, Mr. Fett called on him at his office, and wished him to buy some Hamburg F. F. rags: that he said the firm had not bought any of that class of rags for some time, but that one bale could do no harm: that Mr. Fatt said he should send a sample bale, and that it was forwarded to the mill on August 8, and that this bale was all right; a few days later Mr. Fett called in reference to it, and witness said he would take the rags at 31/4c. per pound; the other bales were brought in during the following week and sent to the mill; witness gave a note for the bill of rags payable in four months; the rags were not opened until after the bill was given; the first bale was not included in the bill; Fett & Sengstak afterwards sent for pay for the one bale of rags, and payment was refused because of rubbish found in the bales

The Court-Why do you conclude that it was a breach of contract?

Mr. O'Hara-Because the bale was a sample bale, and I said I would give 31/4c. if the others were as good as that; on refusing to pay for the sample bale, Mr. Fett asked me why I opened the other bales, and I replied that it was "damned nonsense" to talk like that. Mr. O'Hara then went on to explain the opening of bales and difficulty of repacking, &c.

On cross-examination by plaintiffs' lawyer, Mr. O'Hara denied that in a conversation with Mr. Fett he referred to the rags being damaged previous to shipment from New York.

The Court-Why was the bill made out for the 23 bales and three bags and the one bale left

Mr. O'Hara-Well, it was left out: I bought the 23 bales and three bags on condition that their contents were similar to those of the sample bale said I would not take them if they were not similar, but would give a certain price if they were. Witness said he believed a separate bill had been sent for the one bale as he ha randum from the firm's books to that effect.

James H. Carpenter was then sworn and said he was an employee of the Seymour Paper Co. in various capacities, mainly in purchasing and handling rags. He said that he was in charge of the mill in September, 1878; was notified of the bad quality of the rags in that month, and in various stages of opening and handling found rubbish that should not have been there; it is not possible to ascertain rubbish without opening; I have seen bales of Hamburg packing scores of times: did not see those particular bales in New York; I recognized them as Fett's packing; it is generally known that Mr. Fett's father packs them in his own house; the refuse was canvas, iron ring bolts, and other things not identified with linen rags; the weight of refuse was over 2,000 lbs.

By agreement of counsel the testimony of Charles T. Barton, sworn to on June 24, 1879. on behalf of defendants, was then admitted in evidence and submitted to the court

The defendants' evidence being now all in, the plaintiffs' lawyer asked the Court whether there was a breach of warranty, and was answered in the negative, whereupon the former moved for judgment, which motion was denied, as the Court said he thought that the defendants were entitled to some recompense for the refuse, a this could not be used for the purpose for which the rags were bought.

Hugo C. Fett was then examined and said: When I sold the 23 bales I did not tell Mr. O'Hara they were anything like the first bale; Mr. O'Hara said he would like to take some low class of goods and that one bale could not do any harm; he took one bale at 31/2c.; I called on him some days after and he said he would not take the stock; that it was not what he wanted; and when I was leaving his place he called me back and said he would take it at 31/c. per lb., and give a four months' note, to which I agreed (Here the note was offered in evidence.) He bought subject to examination, and sent me word one or two days after that the goods were damaged; I then sent back a messenger to tell him that if he did not like the goods he need not take them; I don't know whether it could be told that the rags were damaged if not opened: they were packed in Berlin and shipped from Hamburg; we never allow anything for refuse;

it is natural for even iron rings and even canvas refuse to be among rags; painted canvas is not refuse; Mr. O'Hara buys Russian F. F. and pays 25 per cent, more for it, and that is where the trouble is.

In rebuttal Mr. O'Hara said that F. F. rags are rather coarse linen rags and that iron rings and canvas should not be taken as F. F. rags, and denied sending the messenger to Mr. Fett in reference to damage in the bales.

This ended the testimony and the Judge said he excluded the warranty, but that he believed something should be allowed the defendants for the refuse, as this could not be used for the purpose for which it was bought. He then requested both counsel to submit briefs to him, and said that he would give his decision within eight

#### New Patents.

- No. 218,003. Seams for Woven Wire in Paper-Machines.-John Dunbar, Springfield, Mass
- No. 218,021. Expansible Cores for Rolls of Paper .-John Hartnett, St. Louis, Mo., assignor of one half his right to Stoughton Pettibone, Niagara Falls, N. Y
- No. 218,036. Paper-Bag Machines.—Felix W. Lein bach, Clarence A. Wolle, and Edward H. Brunner Bethlehem, Pa., assignors to said Wolle and Brunner; said Brunner assignor to said Wolle.
- No. 218,295. Turbine Water Wheels.-Isaac Mallery.
- No. 218,301. Gates for Turbine Water Wheels .- Adam Moessinger and William Heathcote, Glen Rock
- No. 218,324. Manufacture of Paper Pulp and Paper from Grasses.-Adolf Seyler, Brooklyn, N. Y.
- No. 218,355, Paper-Feeding Devices.-John S. Young, Philadelphia, Pa.
- No. 218,364. Manufacture of Papier-Maché Articles. John W. Bryant, La Porte, Ind.
- No. 218,389. Processes for Making a Water and Fire Proof Paper.—Heman S. Lucas, Chester, Mass.
- No. 218,479. Paper Boxes.—Charles E. Bolchini, Milan, Italy, assignor to Alphonse Stephani, New York, N. Y., and Wm. G. Moehring, Philadelphia, No. 218,511. Cutters for Grass, Paper, &c.-Robert
- C. Fletcher, Tarleton, County of Lancaster, Eng-
- 218,653. Machines for Cutting Paper.-George H. York, Cambridge, Mass.
- No. 218,756. Calendering-Machines. George E. Marshall, Turner's Falls, Mass.

No. 8,845. Wood-Pulp Machines.-James Taylor, Lucerne, N. Y.. assignor of one-half interest to James T. Outterson. Patent No. 117,122, dated

#### Manufacturing News.

#### EASTERN STATES.

A company has just been formed at Portland, Me., for manufacturing a large variety of articles from wood and other kinds of pulp, by a new, yet thoroughly tested process. The name adopted by this company is the Presumpscot Pulp Package Manufacturing Company, the active members of which are S. C. Andrews, Esq., of Portland, and Jefferson Chase, of the Chase Turbine Manufacturing Company, of Orange, This company has already secured from John Lindsey the large and valuable water power at North Gorham, Me., known as Great Falls, and will proceed at once with the necessary construction of mills, and put the same in operation. Barrels, kegs, tubs, pails, boxes, moldings, &c., compressed solid or whole, from the pulp, will be made by this process, producing articles of unequaled strength and utility, and impervious to air, water, oil or acids of any kind, and when required, fire-proof as well.

The officers elected at the annual meeting of the Carew Manufacturing Company, South Hadley Falls, Mass., were: President, C. H. Smith, Treasurer, J. Carew; Clerk, I. W. Sinclair; Directors, C. H. Smith, J. Carew, Selden Gladwin, George E. Lamb.

The L. L. Brown Paper Company, at West Cummington, Mass., is building a dam across the south branch above the mill to convey the water from that stream to the main pond. The old dam was carried away by the December flood, since which time they have not had the use of the stream.

The Winnipiseogee Paper Company, of Franklin Falls, N. H., has begun an extension of its upper mill, in order to add another first class Fourdrinier of the largest capacity, of which it has now three in its two mills, running day and night.

The Sebago Wood Board Company, South Windham, Me., is about to put in a new 70-inch cylinder machine at its mill. This machine is to have four cylinder molds specially fitted for making a thick, continuous sheet from wood pulp alone. The company will also put in three ts of press rolls and twenty-one driers.

The new wood fibre mill which Newton Bros are building on the lower level canal at Holyoke s progressing rapidly, and it is expected will be in working order before the close of fall.

It is stated that D. H. & J. C. Newton, Holoke, are about to build another paper mill, to e located alongside of and in connection with the new wood fibre mill which they are erecting on the lower level canal. It is understood that the new mill will have an 84-inch machine, and will probably be a duplicate of the lately completed Wauregan mill.

#### MIDDLE STATES.

Howland & Co.'s paper mill, at Sandy Hill, N. Y., is now running at full time, and turning ut about three tons of grocery bag paper per twenty-four nours. The firm is building a large a ldition to its works, to be used as a storehouse.

#### SPECIAL NOTICES.

(Insertions under this heading will be charged 30 cents a line. Payment invariably in advance.

Fifth Edition Now Ready.

#### Lockwood's Directory of the Paper Trade.

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.

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E. EMBREE, Agent, P. O. Box 4667. 18 Vesey Street, New York.

# Market Keview.

OFFICE OF THE PAPER TRADE JOURNAL, THE MONEY MARKET.—The monetary situation was characterized by an easier feeling, and the rates for call loans to Stock Exchange borrowers ranged from 4@7 per cent., with the great bulk of the business at 6 per cent. There vas a change for the better at the close, and capital was in good supply to call borrowers at per cent., and in exceptional instances, even below this figure. Prime mercantile paper was quoted at 5@61/2 per cent., according to the date of maturity. Government bonds were firm for the new 4 per cents., which advanced from \$1.00% @1.01, and steady for the other issues. The rates for Sterling Exchange were reduced for bankers' 60 day and demand bills, respectively, but the decline failed to stimulate inquiry, and the business generally was light.

The posted rates to-day are: Sterling 60 days, \$4.811/2: sterling, sight, \$4.831/2; cable transfers, nominal, \$4.83\%@4.84\%; commercial sterling, prime long, \$4.79@4.79\%; documentary sterling, 60 days, \$4.78@4.78\(\frac{1}{2}\); Paris, bankers', 60 days, \$5.25\(\tilde{0}\)5.24\(\frac{1}{2}\); do. sight, \$5.23\(\tilde{0}\)6.21\(\frac{1}{2}\)5.23\(\frac{1}{2}\)6.21\(\frac{1}{2}\)5.23\(\frac{1}{2}\)6.21\(\frac{1}{2}\)5.23\(\frac{1}{2}\)6.21\(\fra Antwerp, bankers', 60 days, \$5.25@5.261/4; do. sight, \$5.221/2@5.23%; Swiss, bankers', 60 days, \$5,23\\delta 65.25; do. sight, \$5.21\delta 65.22\delta; Reichs marks (4), bankers', 60 days, 94@941/4; do. sight, 94%@94%; Guilders', bankers, 60 days, 40@401/8; do. sight, 401/2040%, and Paris dispatches quote exchange on London at 25 fr.

THE PAPER TRADE.—The month just about closing, although numbered among the dullest of the year, shows an aggregate amount of business done, which is said to be much in excess of the same month of last year, and some go so far as to assert greater than for five years past. While this may be true as to the comparative value or amount of paper which has changed hands, inasmuch as prices are lower at this time than five years ago, and even slightly less than a year since, it is an open question whether the increased consump-tion has brought a return of more profit in a is in a much more favorable state than at any period since the date of our civil war, and business men generally look forward to the revival with the most hopeful anticipations. The most noteworthy feature in the paper trade at this time is the starting up of a number of the hanging paper mills which were generally shut down about the beginning of the summer. These are said to start up with a larger number of orders on hand than usual, and the owners feel very much encouraged. Writing Papers remain about the same. There is quite a considerable amount in the aggregate being shipped abroad, and this movement is constantly growing. Book Papers are moving more readily in a wholesale way. The publishers are more in the market, and this gives increased life to the business, although the heaviest orders are yet to be given. A shipment of fair quality Book, consisting of 300 reams, was made to southern port in Europe during the week by a city dealer. In News some of the agents of large mills report an increased number of orders from buyers outside of the city, and claim to be getting fair prices. Manilla papers present a marked c standing of sixty days ago. While the mar-Geo. West is setting a tubular boiler at his ket at that time was overstocked with almost

time. There is a very good jobbing demand for 2%c.; 50 tons Aluminous Cake at 1½c.; 10 cks. all classes of Manillas. Hardware Wrappings and Flour Sack Papers are called for to a considerable extent, and dealers ask firm prices for good qualities. The call for Binders' Boards continues to improve, but prices remain quite steady. Straw Boards are moving fairly, but not actively, and the dealers are disapp that trade is not what is usually expected at this time. Straw Wrappings are still slow of sale, but dealers are believed to be adhering to the advanced prices agreed upon. The fall export trade in these is about beginning, and an improvement is looked for next month.

JUTE BUTTS.-The market continues firm, and business is confined to jobbing lots at full prices. The sales during the past week aggregate about 1,500 bales. The only arrival during the week was the Larnaca with 4,900 bales, all placed to arrive. In fact nearly all the Butts on the way are sold to arrive. We quote 21/4@ Offers of 2 7-16c, have been made for round lots and refused.

WOOD PULP .-- Wood Pulp continues in very fair demand for most all varieties, although not to the extent that any of the mills are pushed to fill orders. Prices are about as previously quoted, viz.: 3c. for Combination Ground Wood Pulp, 21/2c. for Pulp made by parties outside the Combination, and within the range of 41/2@51/4c. for Chemical Wood Fibre, according to quality

FOREIGN RAGS AND PAPER STOCK .-There has been some improvement in the demand for this class of stock during the past week, but this has been small and confined mostly to Jute and Bagging qualities. Cottons are about the same, the supply being very full and the call light. In Linens the same conditions before spoken of continue to exist. There has been some demand for the lower grades, but the finer qualities are less sought for and the market is well supplied with stock for some time to come. The sales include 10 tons S. P. F. Linens at 41/4c.; 15 tons Extra do. at 41/4c., 30 tons Smyrnas at 2 7-16@21/c., 30 tons Scotch Rags at 21/2/21/c., 10 tons Clean Prints at 31/c., 10 tons English Prints at 2%c., 25 tons Letter Waste at 2%c., 15 tons Bremen Colors at 2%@ 2%c., and 17 tons Overissues at 3@3%c. The arrivals for the week foot up 1,331 bales Rags, 449 bales Paper Stock, and 196 bales Manillas.

DOMESTIC RAGS.-The market continues steady with a fair demand. The increased inquiry for No. 2 Whites has imparted a little firmer feeling to the market, and some holders whose stocks of this grade are running quite low are asking 2%c., an advance of %c. on last week's sales. Dealers complain of an advance of freight rates to the West, which they say bears very hard on them at the present prices of The sales reported embrace 180 bales No. 2 City Whites at 2%c.; 30 tons do., at same price; 60 tens City Seconds at 1%c., and 100 bales Black Regs at 2c.

BAGGING, &c.-The market for Bagging during the past week has improved in demand, and gained additional firmness in price, upon the strength of an advance in prices abroad. The agent of a prominent Manchester house a day or two ago received cuble advices of a further advance of 10 per cent., owing to a scarcity in that market, and information from other points fully onfirms this statement as to the reduced supply in the foreign markets. Strictly No. 1 Manches ter Gunny is now firmly held at 2%c., and No 2, although in somewhat better supply, is held at 1%@1%c., and sales have been reported at the latter figure. While some are of the opinion that Baggings will rule even higher, because of their preference to Butts at the present market price, it is said that contracts are offered for a liberal supply of the new crop of Butts, which will not be marketed before February of next year, at 2%c. Manilla Rope is unchanged in demand, but held a trifle higher, and offered at 2%c. We note sales of 50 tons Manilla Rope at 23/4@21/6c.; 53 tons Jute Rope, to arrive, on private terms; 175 tons No. 1 Manchester Gunny Bagging at 2.30c.; 25 tons No. 2 do. at 1%c., and 30 tons Jute Threads on private terms.

OLD PAPERS-With the exception of Folded News, which on account of the hanging-paper mills having started up again has been in better demand, there is no new feature to report. All classes of Old Papers, except No. 1 White Shavings, have been in full supply for some time past, while the demand has been exceedingly limited. Folded News find purchasers at 1%@ 2c. Solid Stock is variously quoted at 3@3%c., Solid Stock is variously quoted at 3@3/sc., and extra do. at 3%c. White Shavings have changed hands in small lots at 3%c. for Soft and Hard. We note sales of 100 balas Months of the sales of 100 balas Months of 100 balas Papers at 11/6.; 5 tons Old Manillas at 21/6@21/4c., and 10 tons Light Stock at 11/c.

STRAW-Continues in good demand, and is firmly held at previous quotations. We quote old and new Long Rye at 50@60c.; short do., 40@ 45c.; and Oat, nominally 35c., all eash. Prices at the mills, say in Columbia and Saratoga counties. N. Y., range from \$6@8 per ton for Long Rye and \$4.50@6 for Short.

ROSINS.-The movement is slack, but price generally are fairly steady. The lower and edium grades are held a degree firmer, but the higher qualities are unchanged. We quote as foilows: D Gcod Strained at \$1.50; E at \$1.65; F Good No. 2 at \$1.80; G Low No. 1 at \$2.15; H No. 1 at \$2.70; I Good No. 1 at \$3.25; K Low Pale at \$3.70, and M Pale at \$4.

CHEMICALS .- Chemicals are yet only in a moderate amount of demand, but prices remain quite steady. As compared with the sales of the previous week, Bleaching Powders are a trifle off, and Prussiate has advanced to 241/2c. Sales occurred within the past week as follows: 150 cks. Bleaching Powders at 1.25c.; 100 tons Soda Ash at 1.621/c.; 50 tons Sal Soda at 1.10c.; 100 barrels Lump Alum (Amor will at Ballston Spa, N.Y. He intends this to be one of the finest paper mills in this country.

John McLean, of Ballston Spa, is setting a boiler with the Jarvis setting at his paper mill.

Social t. 10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstocked with almost sodia at 1.10c.; 100 barrels Lump Alum (Amballston Spa, is setting at that time was overstoned at 1.10c.; 100 barrels Spa, is

yellow Prussiate Potash at 241/2c., and 5 cks. Bichromate do, at 12c.

COAL.-There has been very little doing in coal during the past week. The usual monthly sale of Scranton coal by the Delaware, Lackawanna and Western Railroad Company took place on Wednesday. The bidding was very slow, but at the lowest prices there was a good demand, and the amount offered was generally very well distributed. Saward's Coal Trade Journal says: "There is no bottom as yet to the market. Too much coal is and has been forced forward, for some reason or none at all, and the customary reward has accrued. Bituminous coals hold their own, both as to price and quantity; there is nothing new in this quality, except the fact that they are reaping more of the benefits from a revival of manufacture and the activity in transportation than the Anthracite coals." Quotations at tide water are: Lump, \$2.70; Broken, \$2.70; Egg, \$2.75; Stove, \$3, and Chestnut, \$2.85.

#### PRICES CURRENT.

414 414 456 214 176 70 8 City) ... Manilla Rope Manilla Rope Manilla Rope Manilla Rope tarred Gunny Bagging No. 1 Gunny Bagging No. 2. Kentucky Bagging Durlap Bagging Tar Shakings Hemp Twine Stock Jute Waste

Shavings and Old Paper. Shavings and Old Pa White Collar Cuttings, muslin lined. White Envelope Cuttings Hard White Shavings, No. 1 Soft White Shavings, No. 2 Mixed Shavings, No. ook Stock, ordinary ... ook Stock, No. 1, light... Prints
Pure Manillas
Pure Manillas
Rosus Manillas and Hardwares. English Rags, &c.

Checks and Blues ..... Black Calicoes
First Canvas Linen
Second Canvas Linen
Black Baggring
Gunny Baggring, No. 1
Gunny Baggring, No. 2
Mixed Baggring, No. 2
Mixed Baggring, No. 1
Rope, Manilla
Rope, Manilla
Lute Ropes,
Jute Toreads. 196 English Old Papers and Shavings. Hard Shavings, No. 1 Soft Shavings, No. 1 White and Colored Shavings, No. 1 White and Colored Shavings, No. 1 314 814 214 White and Colored Shavings, No. 2.
Cream Shavings.
Paper-collar Cuttings.
Ledgers, Briefs and Letters
Newspapers and Pamphlets, extra.
Old Newspapers
Broken News and Letters.
New Books, Solid Folios.
Old Blank Books.
Brown Papers
White and Ruff Railway Sheets 314 Brown Papers.
White and Buff Railway Sheets.
Railway Tickets Hamburg Rags, &c. S P F F F F, square case
S P F F F, long bale
S P F F F, square bale
S P F, square bale
S P F, square bale
F F, square bale
E F X, square bale
Extra Fine Blue Linen, light color.
L F B, square bale
L F B, long bale
Gunny Bagging, No. 1
Burlap Bagging, No. 1 356 Rope.

Old Papers. l, linen stripes . . ordinary stripes . Alexandria Rags.

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134

434 56 -16

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Memel Rags. Chemicals, Coloring Materials, &c Alum, lump.
Alum, ground.
Alum, pearl.
Alum, porous.
Alum concentrated. opperas, American... xtract Logwood... Y. Lubricating Co.'s Comp'd, P D. Orange Mineral
Rosina, common strained per bbl.
Rosina, goud strained, per bbl
Rosina, low, No. 2, per bbl.
Rosina, good, No. 2, per bbl.
Rosina, low, No. 1, per bbl.
Rosina, good, No. 1, per bbl.
Rosina, good, No. 1, per bbl.
Rosina, gale, per bbl.
Rosina, extra pale, per bbl.

Sal Soda
Soda Ash, caustic
Soda Ash, carbonated
Soda Ash, refined
Soluble Blue
Spanish Brown, dry
Sugar Lead, white
Sugar Lead, white
Sugar Lead, brown
Su-phuric Acid, 60 degrees
Sulphurne Acid, 66 degrees
Ultramarine
Venetian Red, American
Venetian Red, English
Vitriol, blue BOSTON MARKET.

Paper Stock.

Mill Assorted Whites
Cotton Canvas.
Cotton Canvas, No. 2
Gunny Bagging.
Gunny Bagging, No. 3.
Shivey Bagging, No. 2.
Shivey Bagging, Waste Woolens
Jute Butts
White Collar Cuttings
White Envelope Cuttings.
Hard White Shavings, No. 1
Soft White Shavings, No. 1
White Shavings, No. 2
Mixed Shavings, No. 2
Mixed Shavings, No. 2
Mixed Shavings, No. 1
White Shavings, No. 1
White Shavings, No. 1
Hardware and Manillas
Light Frints
Hardware and Manillas
Straw Board Cuttings
Linen Canvas.
Linen Canvas.
Linen Canvas.
Linen Canvas.
Linen Canvas.
Country White Rags
Country White Rags
Country White Rags
Country Mixed Rags
Countr 444 

Leghorn Rags.

278			
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Whites Smyrna Rags. Blues Reds Mixed	2%@ 214@ 214@	214 214 114	Yel
Whites	254 @ 254 @ 2 @ K@	296 296 234 134	City Mill Wh
New Papers.  Superfine Book.  Fine Book.  News, Rags and Wood.  Mews, Straw.  News, No. 1, all rag.  Manilla, Cream, No. 1 Rope.  Manilla, No. 2 Rope.  Manilla, No. 2 Bagging.  Manilla, No. 2 Bagging.  Manilla, No. 2 Bagging.  Manilla, No. 2 Bagging.  Hardware, No. 1.  Hardware, No. 2.  Hardware, No. 2.  Hardware, So. 3.  Hardware, So. 3.  Hardware, So. 4.  Hardware, So. 5.  Leather Boards, # ton. 5.  Leather Board, Common, # b.  Leather Board, extra  Chemicals.	8 6 6 6 14 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	818 1016 818 1016 818 1016 818 818 818 818 818 818 818 818 818 8	Wh. Cou
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Extract Logwood. Lime, common, \$\psi\$ bbl Prussiant Blue, \$\psi\$ b Prussiant Blue, \$\psi\$ b Prussiant Potash, American. Rosin, 800, 10, 10, 10, 10, 10, 10, 10, 10, 10,	1.1-16@ 1.55 @ 1514@ 174@ 114@ 5.00 @ 2 25 @ 114@ 114@ 114@	11/6 13/4 90 163/6 8 13/4 5.00 80 25 13/6 6	Ba make more are R. lines report while home mare uncel HI inque cons Price
Paper Market.  Plate.  Super-Calendered, white and tinted Fine Book, white and tinted. No. 2 Book. No. 2 Book. Colored Glassed Mediums Rag News. No. 1 Ordinary Rag News. Straw and Wood News. Bleached Manila, No. 1. Ordinary Manila Bogus Manila Birsw Wrapping. Glassed Hardware. Tame Manila, 24: 36, full count. Tissue, white, 28: 38, full count. Tissue, white, 28: 38, full count. Tissue, white, 28: 38. Tes Papers, 13: 18. Tes Papers, 13: 18. Tes Papers, 13: 18. Tes Papers, 12: 16. Birsw Boards, air-dried, yeton. Straw Boards, air-dried, yeton. Straw Boards, 30: 10.  Binders' Boards, 50: 10.  Binders' Binders' Binders' Binders' Binders' Binders' Binders' Binders'	18	153/4 12 113/4 113/4 113/4 113/4 1100 13 23/4 1,00 1,25 43 55 50 5,00 5,00 6,00 6,00 6,00 6,00 6,0	quan
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Russian Rags.	4940 4140 4 0 340	434	Facts BAC F
Aluminous Cake. L Brand, currency. Alum, Concentrated, Red Star. Alum, lump, currency. Alum, potash. Alum, potash. Alum, porous. anti-Chlorine. Heaching Fowder, currency. Caustic Soda, gold. China Clay, English, W ton, gold. 17 China Clay, English, W ton, gold. 17 China Clay, English, W ton, gold. 17 China Clay, Star. China Clay, W ton. South Carolina Clay, W ton. Terra Alba, English, E W. Brand, Wton. Terra Alba, English, E W. Brand, W ton.	1% @ 3 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4.00 4.00 8.00 8.00 94 15 114	For Apple
Orange minerat, gold. Rosin, No. 9. Rosin, No. 1. Rosin, No. 1. Rosin, Pale. Sal Soda, cur'y Soda Aah, caustic, for 48 % cent. gold Soda Ash, refined, for 48 % cent. gold	80 6 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2.00 2.873 2.75 3.25 1.88 176 216	A SE Wood ther heav

Venetian Red, American	11600 -	-
Venetian Red, English	1940	2
Blue Vitriol	7100	8
Yellow Ochre, American	340	11/4
Yellow Ochre, French gold	194@	4.79

CINCIMIATI	I MARKET.
Paper	Stock.
City, No. 1 Whites 4 Mill Assorted Whites 4 Mill Assorted Whites 4 White Cotton Canvas, No. 1 Gleen Canvas 5 Gleen Canvas 6 Country Whites, No. 2 Country Whites, No. 3 Country Whites, No. 3 Country Whites, No. 3 Country Mixed Cotton Rags 2 City Mixed Cotton Rags 2 Shoe Cuttings, new Colored Cotton Rags 2 Manilla Rope 34 Hemp Rope 34 Hemp Rope 4 Henn Rope 4 Henn Rope 4 Henry Bagging 24 Hard Woolens, old 4 Heard Woolens, old 4	Cents.  Soft Woolens, mixed City 946 Common Wool Rags. 1 White Shavings, No.1. 4 White Shavings, No.2. 2 Colored Shavings, No.2. 3 White Collar Cuttings 546 White Envelope Cut- tings, new 2 Manilla Envelope Cut- tings, new 3 Manilla Papers, No. 2 Sized Papers No. 2 Sized Papers 146 Flour Sacks 4 Common Papers 90 Straw Board Cuttings 90 Binders' & Tar Board Cuttings, 1
Hard Woolens, new 151/2 Soft Woolens (Mill) 91/2	Mill Bagging, No. 1 21/4 City Gunnies, No. 2 2

#### CHICAGO MARKET.

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Rags and P	aper Stock.	
Whites, No. 1 4 @4% (1 %) 34 @34 (2 %) 34 @35 (2 %) 34	Print Papers Manilla Papers Common Paper White Shavings Mixed Shavings . No. 1 Book	2 (0.2) - (0.3) - (0.3) - (0.2)
NOW CHIPS 1479 Chile !		

#### FOREIGN MARKETS.

London Market Report.

London, August 16, 1879. usiness shows a further improvement and paper kers who have lately entered into large engage nts are freely buying. Exportation also shows re activity and for some qualities advanced prices being paid.

AGS.-Good contracts for strong middle-classed ns, both for forward and immediate delivery, are orted. There is also a fair demand for fine linens, ile cottons are only taken in small parcels for ne consumption, America remaining the principal rket for this kind of paper stock. Cotton rags are

EMP. BAGGING, GUNNY, ROPE, &c.-The good uiry continues both for exportation and home sumption, and buyers meet with sellers' views. ces advancing.

ASTEPAPERS.—Further transactions of limited ntities have transpired and prices are stiffening.

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WOOD CHIPPERS.

ROBT. WETHERILL & CO., Chester, Pa.

ANTED. — A SITUATION AS MACHINE tender; good references given if required. Ad-

ANTED.—A SITUATION AS FOREMAN IN a fine mill, or in one making engine-sized flat a and No. 1 book papers; coloring a specialty; of references given. Address B. W., office Paper de Journal.

ANTED.—SITUATION AS FOREMAN OF A paper mill; has had charge of all classes of is in Scotland and this country for thirty years; urnish best of references. Address D. T., office rade Journal.

'ANTED-BY AN EXPERIENCED PAPER maker, in a manilla or wrapping mill, situation reman. machine-tender or engineer; can give class reference. Address W., care of J. M. IBNER, Middleburg, N. Y.

OREMAN WANTED.—IN A MANILLA PA-per mill, about forty miles from Boston, a fore-n who thoroughly understands manufacturing nilla paper. Address with all particulars P. O. 2,892, Boston.

OR SALE.-PAPER MILL NOW RUNNING ON full orders; 60 inch machine; stemm and water wer; straw, \$2; wood, \$1.50—all delivered; can stract entire production of special grocers' straw eer theavy at \$40 per ton, f. o. b.; price, \$25,000, -third cash, balance will take in paper; will pay veling expenses if above is not a low price, true ts and a rare chance. Apply to H. P. EYSEN-CH, Delphos, O.

OR SALE,....PAPER MACHINERY. Two asts Fress Rolls, one Black Calenders, Reels I Continuous Feed Cutter, for a 42-inch Paper chine. Also four Engine Rolls. 27:230 inches, with nds and lighters complete. Will be suid chesp. Apply to ADAMS & CO., Chagrin Falls, Ohio.

OR SALE CHEAP.-ONE No. 8 BAGLEY & Sewall Pump, nearly new, in perfect order, by to HILL & MURRAY, Niagara Falls, N. Y.

> FOR SALE. 54-INCH FOURDRINIER MACHINE IN

LSO, A FOURDRINIER WET PART OF MAwo Engines, NEARLY EQUAL TO NEW; Roll Hars 36 inches long; Cast-iron Tubs, 14

long.

LSO, FOUR IRON DRIERS, 84×28 INCHES diameter, with frames, &c.

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Windsor Locks, Conn., or 45 John St., N. Y.

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ET OF CALENDER ROLLS, built expressly for Wood Board, equally suitable for Wood, Straw or Lea-ther Board; Rolls, 14x69; Chilled Iron; Frame very heavy, with back grears, counter shaft and pulleys all complete. Will be sold cheap. Apply to CHASE TURBINE M'F'G CO.,

Orange, Mass.

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The valuable, irredeemable Water Power, with improved Turbine Wheels, situated on canal bank, at Manayunk, in Twenty-first Ward, city of Philadel-phia; contains six Rag Engines, two Jordan Beaters, two Rotary Boilers, 72-inch Fourdriner machine with chilled rolls, and all additional machinery for manufacturing Book, News or Manilla Papers. There is a 30-horse power Steam Engine and valuable Boiler in addition to above. The undersigned, en-gaged in the Book and Stationery business, will offer to reliable parties the best of inducements for pur-GEORGE McDOWELL & CO. chase or lease.

No. 253 Market Street. Philadelphia, Pa.
N. B.—Adjoining the mill is a large Wood-Pulp
Factory for Lease or Sale.



#### GEORGE HARLEY,

Importer of California Rags And Dealer in WOOLEN and COTTON RAGN, and all kinds of PAPER STOCK.

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Circular Saw Mills, Shafting, Pulleys, Hangers # General Mill Machinery, Address: T. C. ALCOTT & SON, Mount Holly, N. J.



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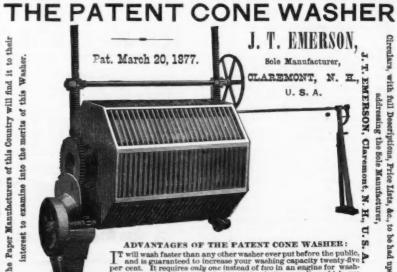
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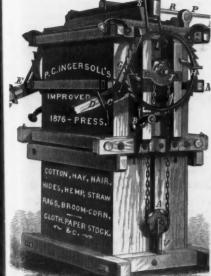
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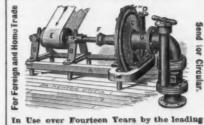
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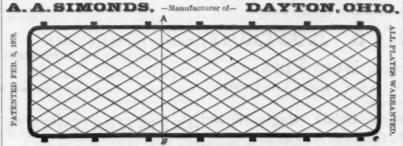
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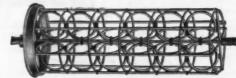
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