

THE

PAPER TRADE JOURNAL

"THE CONSUMPTION OF PAPER IS THE MEASURE OF A PEOPLE'S CULTURE"

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VOLUME XXXIV—No. 23

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PER ANNUM, \$4.00
SINGLE COPY, 10c.

20,000,000 BAGS

Will Be the Continental Paper Bag Company's Daily Output.

It Now Makes 10,000,000 a Day—The Company Will Move Its Bag and Paper Jobbing Business to Rumford Falls, Me.—General Business Office in New York City.

"The Continental Paper Bag Company is now equipped to manufacture 10,000,000 bags per day. Provisions are being made to increase this production to 20,000,000 bags per day. To turn out this extra 10,000,000 work on the necessary additional buildings and machinery construction will be commenced at once."

The above quotation is a part of an interview had this week by a representative of THE PAPER TRADE JOURNAL with Herman Elsas, president of the Continental Paper Bag Company, of New York. But while the statement is interesting to the trade in a general way, still its importance can be appreciated only by paper bag manufacturers and by distributors of the same. In the course of the interview referred to, however, Mr. Elsas disclosed one feature of the future programme of the Continental that will certainly interest the whole paper industry. Whether this new departure, outlined below, is prophetic of coming events remains to be seen. That the company is a pioneer in at least one respect there is no question.

The new order of things that may mean much to the paper industry is in brief the combination of its paper jobbing business, and the manufacture and sale of its paper bags, both being carried on at Rumford Falls, Me.

The store corner of Laight and Varick streets, now occupied by the Continental Paper Bag Company, is to be given up just as soon as a new tenant can be found for the building. Under the new arrangement the Continental will do a general jobbing business from Rumford Falls as a basis in all the principal grades of wrapping papers. These papers will be part of the product of the mill of that place. This paper business will be conducted in conjunction with the manufacture and sale of all kinds of paper bags, for which purpose the company was originally incorporated. The general offices of the company are to remain in New York city. New quarters for this purpose are to be leased in the Wall Street district. No stock of either paper or bags is to be carried in New York city, according to present plans. In regard to the paper jobbing business of the Continental, the trade will recall the fact that this company went into the jobbing line about two years ago, when it took over the business of the Elsas Paper Company, of New York.

The sign "To Lease" was this week displayed on the building corner of Laight and Varick streets. Attracted by it a representative of THE PAPER TRADE JOURNAL asked Herman Elsas, president of the Continental Paper Bag Company what it meant. In reply Mr. Elsas said: "It means that we want to get a tenant for this building, as we are hereafter to do our jobbing business and our paper and paper bag manufacturing at Rumford Falls. All the principal grades of wrapping papers are to be made there as well as all kinds of paper bags. The Continental Paper Bag Company will sell both the papers and the paper bags. The company will maintain only a general office in New York city. The location of the latter has not yet been decided on, but you can say that it will be somewhere in the Wall Street district." In regard to the paper bag business of the Continental Mr. Elsas said: "We have just completed the installation of the equipment to manufacture 10,000,000 bags per day. Work is to be commenced at once on the building and machinery construction to

bring the total bag production of the company up to 20,000,000 daily. To do this we have placed the contracts for the necessary bag machines and have also decided to build a five story 200 feet long addition to our bag factory, which will give us 160,000 more square feet of space, bringing the total floor area of factory and warehouse up to 250,000 square feet. The Continental does its own printing on both paper and bags. At present we have thirty printing presses installed. We also have a stereotyping and an engraving plant in connection with our printing department. In our paper and our paper bag lines combined the Continental Paper Bag Company will consume between 180 and 200 tons of paper per day. A part of the new equipment of the Continental is composed of new patented machines upon which patent shaped paper bags are now being made. These machines run at a much higher rate of speed than any bag machines heretofore manufactured. All sizes of automatic squares known as 'A. B. C.' bags are being made in these machines. In regard to transportation, we can ship at a low rate from Rumford Falls to New York city for instance, via railroad to Portland, thence by boat to New York, or by all rail over the Boston and Maine Railroad lines, connecting with the New York Central Railroad at Troy, N. Y. Good connection is also afforded to all other points by either rail or water. At Rumford Falls, Me., I feel safe in saying that there is to-day the most complete ground wood plant, sulphite plant, paper mill and bag factory, all under one roof, in the world. The paper jobbing department of this combination will soon be added."

The Continental Paper Bag Company was incorporated, capitalized for \$5,000,000, in the summer of 1899. Its big factory at Rumford Falls, adjoining the paper mill of the International Paper Company, was started a year and a half ago. Recently a large three story warehouse, 460x80 feet, has been erected alongside the factory. Since the company began business its work has been greatly delayed owing to the inability of the machinery men to fill the orders placed with them. Other matters have also prevented the company from sooner realizing the ambitious plans of its projectors. The company is backed by a number of gentlemen who are identified with the International Paper Company. The present officers of the company are Herman Elsas, president; Warren Curtis, vice-president; E. W. Hyde, treasurer; I. Kuhe, secretary; Owen Shepherd, assistant treasurer, and Theo. Hawley general superintendent.

Another Kalamazoo Mill.

[SPECIAL CORRESPONDENCE OF THE PAPER TRADE JOURNAL.]

KALAMAZOO, Mich., June 2, 1902.—A meeting of the stockholders of Kalamazoo Paper Mill No. 2 has been called for to-morrow to increase the capital stock and pass upon plans for a new paper mill adjoining mill No. 2. It will be a substantial addition to Kalamazoo's paper industry. No definite plans have yet been decided upon as regards the size or capacity of the mill, but that it will be of immense size there is no doubt.

Steel and concrete will be used in the construction and the walls will be of cement, if the directors find it will answer the purpose.

Lithographing and Paper Box Combine?

[SPECIAL CORRESPONDENCE OF THE PAPER TRADE JOURNAL.]

MILWAUKEE, Wis., May 31, 1902.—Eastern promoters are at work on a proposed combine of lithographing and paper box manufacturing plants, and it is said that the Milwaukee Lithographing and Engraving Company, as well as one of the large paper box manufacturers of Milwaukee, have been approached with a proposition to join. The new company is to be capitalized for \$2,000,000, and is to include plants in Wisconsin, Michigan, Illinois and Ohio. A number of printing houses and carbon paper factories, it is said, will be included in the deal.

BY-PRODUCTS PAPER CO.

It Is Capitalized at \$2,000,000 and Is Ready for Business.

It Has Taken Over the French-Hickman Patents for Treating Flax Straw—Has Factories in North Dakota and at Niagara Falls, N. Y.—Who the Directors of the Company Are.

The By-Products Paper Company, capitalized at \$2,000,000, which was incorporated at Albany, N. Y., last week, with its place of business and offices at Niagara Falls, N. Y., has been organized for the purpose of manufacturing fine paper stock. It proposes to utilize for this purpose flax straw, now a waste product in the growing of flax seed in the Northwest, particularly in North Dakota, enormous quantities of which are annually produced and are burnt upon the fields after threshing. That this straw has a valuable fibre has always been known, but the difficulties in freeing it from shive and other material deleterious to making paper have made it heretofore practically impossible to use in the manufacture of fine paper. Under the Hickman patent process this fibre is recovered from the straw in a perfectly clean and satisfactory condition for paper making. The By-Products Paper Company has acquired the Hickman patents from the French-Hickman Flax Fibre Company, Limited, of London, England, which company was first to undertake their working, and has also acquired the mills of the French-Hickman Company at Niagara Falls and Fargo, N. Dak. It has also acquired a number of other fibre mills in North Dakota by means of which it will be in a position to produce from the flax straw all of the raw material necessary for use in the manufacture of paper stocks at its Niagara Falls plant. The partially manufactured material, after being worked up in North Dakota mills, is baled and shipped to Niagara Falls, where the finishing steps in the preparation of the stock are taken. The full capacity of the Niagara Falls Mill will be about 30 tons of pulp per day, which output will be disposed of to manufacturers of high grade writing papers.

The By-Products Paper Company is understood to have ample financial backing for developing and extending its business to any extent which the trade requires. The directors of the company are Benj. F. French, of Westhorns, Limited, importers of paper stock; William D. Russell, of Bulkeley, Dunton & Co., recently auditor of the International Paper Company; George F. Hardy, the well-known paper mill architect and expert; Thomas A. Gillespie, of the T. A. Gillespie Company, and Robert C. Hill, of Madeira, Hill & Co.

May Ask Its Help to Work on Long Schedule.

[FROM OUR REGULAR CORRESPONDENT.]

APPLETON, Wis., June 2, 1902.—It is understood that one of the paper companies in this valley which acceded to the demands of the Brotherhood and is now operating its mill under the shorter hours system, is thinking of asking its employees to voluntarily go back to the long hours on account of the fact that all its competitors in this State without exception are now operating under the long hours. In some of the competitors' mills the Brotherhood attempted to enforce the shorter hours and did not succeed, while in others no effort whatever was put forth, the net result being that the mill which took the initiative in meeting union requests now finds itself at a serious disadvantage. It is felt that the men will see the justice of going back to the longer hours in this instance in case the company decides to lay the matter before them.

FOX RIVER.

DEMAND KEEPS UP WELL.

The Call for Writing Paper Excellent, and Especially Heavy in the West—Jobbing Trade Good for the Season.

In the New York market news paper continues to hold the remarkably strong position it has maintained for the past few months. While it has been in very good demand since early last fall, it has been only within the past two months that the demand has seemed to be far in excess of the production. Just now the situation is as acute as it was a few weeks ago, when the labor troubles looked threatening. Part of the market's firmness at that time was attributed to the scare over a possible strike of the men in the mills. But now that that factor of alleged strength has been eliminated the fact is brought into greater prominence that the demand for news is extraordinary. So scarce in fact is news that those best informed on the subject declare that there is at present in the storehouses throughout the country less than a full week's supply of news paper on hand for the use of the big daily papers. On this point the sales agents of the large manufacturing companies are discreetly silent, as they have, so they say, trouble enough as things are without still further exciting their customers. On the score of quotations the situation has not changed. In rolls the range is from 2.30 to 2.40 cents; in sheets, $2\frac{3}{8}$ to $2\frac{1}{2}$ cents. The trouble, however, is to get the mills to make deliveries within a month. On manilas there was some movement in the jobbing trade this week, owing to the "shutdown" of the houses for a two-day holiday vacation last week. The mill end of the wrapping business, however, is now said to be quiet, as the season is getting late for new orders. Both the ground wood and the so-called sulphite papers are in less demand. The former are a bit firmer comparatively than the latter. The quotations on the various grades of wrappings are unchanged, although the weakness in them is confessed. Book papers are holding their own, regardless of the fact that this is not the buying season for books. In writings the jobbing trade is reported quiet. Boards are firm at the list prices, even if the dull season is on with the paper box makers. The combination of the board mills is partly responsible for this state of the board market.

Excellent Business at Holyoke.

Western Massachusetts Office
THE PAPER TRADE JOURNAL,
HOLYOKE, MASS., June 3, 1902.

There is still a most excellent business in the paper trade, and manufacturers say that business is holding up unexpectedly well. The mills have all of the orders that they want, and while most of them observed Memorial Day, it was out of respect for the day and not for any lack of orders, and in all of the mills the manufacturing departments were running. A large number of orders have been received this week, and one mill stated this afternoon that it had orders enough on hand to keep it running for six months if no more orders should be received.

The mills at Dalton are running on the usual number of good orders, and have all of the business that they desire. It is stated unofficially that some orders have been turned down for the reason that they could not be filled when the purchaser wanted the goods, and he did not wish to wait until the mill could get out the order. These instances have been rare, but they have occurred in other towns this summer. The L. L. Brown Paper Company, at Adams, reports trade good and prices firm.

The Whiting Paper Company has a most excellent lot of orders, and has had trouble in getting its goods out on time. The Valley Paper Company reports trade as very active. The American Writing Paper Company is having the best year in its history, and trade is very satisfactory.

FERRY.

Better Business in Philadelphia.

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, June 3, 1902.—Business to-day was very good, much better than it has been for some weeks. The activity is ascribed, however, to the accumulation of orders since Friday last, because of Decoration Day and Saturday half holiday. While normal business cannot be said to be brisk jobbers still assert that it is seasonably good; that trade seems to hold on well despite the nearness of the summer cessation, and that there is nothing upon which to legitimately base complaint. E. R. G.

Boston Business Satisfactory.

Eastern Office THE PAPER TRADE JOURNAL,
6 Federal Street,
BOSTON, MASS., June 3, 1902.

The present week opens up with considerable activity among the local paper jobbing houses, every firm having a large, accumulated mail that has been gathering since last Thursday. While the paper stores were closed Friday and Saturday, and it was agreed that no New England deliveries were to be made during that time, some more distant

orders were shipped off by a few of the jobbers Saturday morning. Outside of this special rush because of business held over nothing unusual in trade developments comes to notice. The volume of business for last month was quite satisfactory, considering the season, but a falling off in the daily consumptive demand for paper is expected to show itself ere long, as the usual summer dullness is about due. It is doubtful if the manufacturing branch of the trade will experience any loss in business during the few summer months unless perchance production may be curtailed at times because of low water, which is always a factor to be considered during July and August. Paper manufacturers generally seem to be fairly well supplied with orders at present, as they have been for months past, and they expect a good run of stock orders from dealers to materialize before the consumptive demands incident to the fall season develop. Under the circumstances manufacturers are not worrying any. Viewing trade conditions as a whole, the outlook is quite favorable.

DELESDEBNIER.

Chicago Trade Quiet.

Western Publication Office
THE PAPER TRADE JOURNAL,
936 Monadnock Building,
CHICAGO, June 2, 1902.

Conditions among the paper men have changed very little since a week ago. The market is quiet, and the prices in some grades are said to be wobbly. The demand for book papers is off. Writings are in fair demand, and there is a good market for manilas and other wrapping papers. News paper is in fair demand. The straw board men say that their mills are all busy, and that they have orders enough ahead to keep them running for thirty days. M.

Black River Mills Busy.

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., June 3, 1902.—Trade conditions in the Black River district have changed very little for several weeks. Orders are coming in freely and all mills are busy. Manufacturers who were worried a couple of weeks ago about the possibility of low water early in the season, are greatly encouraged by the present condition of things, copious rains in the Adirondack region having swelled the streams to more than their usual volume for the first week in June. Storage reservoirs on the streams tributary to Black River and on Black River itself are full, and trouble from low water is not likely to be experienced for several weeks. The recent rise of the streams clears the way for all the pulp drives. Many of them were well on their way before the recent rains. For a few days past the water has been so high that the log drivers had to suspend work. With plenty of water and the present good demand for their product Northern New Yorkers have nothing to complain of. B.

Large Business Gain in Dayton.

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, June 2, 1902.—There is to be recorded this week the largest gain in the volume of trade which has ever distinguished Dayton. The city's commercial supremacy, particularly from the manufacturing standpoint, is asserted in unmistakable terms by the remarkable increase in the clearings. It seems a wide stretch of the imagination but it is positively the truth, nevertheless, that the clearings increased by over a half million dollars the past week over a similar period of last year. When it is considered that 1901 was the banner year, this statement will seem all the more significant. To be exact it should be said the increase amounted to \$526,210.37, a commendable showing, the total making an aggregate of \$1,365,530.83.

The trade in general has more than met expectations this week, and prices are as firm as they have been for several months. The demand for the better grades is heavy. A holiday somewhat interfered, as plants were closed, while on Saturday many offices were deserted, as well as the factories, by men who were staunch friends of the late manufacturer, Paul J. Sorg, to whom a last tribute was paid in beautiful Woodside in Middletown. The "paper city" turned out en masse. M. V.

Heavy Demand in Wisconsin for Flats.

[FROM OUR REGULAR CORRESPONDENT.]

APPLETON, Wis., June 2, 1902.—As a whole, the condition of business coming to the paper mills of Wisconsin is satisfactory, although different lines are faring differently. Proprietors of the mills making flat papers say they never before knew of such a demand for their goods since they commenced making paper. They are compelled every day to refuse even to bid on quantities of desirable business which customers are anxious to place with them. They are confining themselves very strictly to stock sizes and weights and accepting nothing of a special nature. In spite of the fact that they are doing their utmost to accommodate their customers with as little delay as possible, they

still find themselves in many cases considerably behind in deliveries. While news, book, manila and fibre papers are in fairly good request, it cannot truthfully be said that the demand is on a par with that for flat papers. Some of the mills making these goods report that they have enough orders to keep them actively employed, but are not booked very far ahead. It is interesting to speculate as to the reason for the decidedly disproportionate demand for flats over other papers. All but one of the Wisconsin flat paper mills are independent of any combination, and one manufacturer with whom your correspondent talked expressed the belief that the trade was favoring the independent mills on account of the growing alarm with which the public is coming to view the expansion of the combination principle in general in the business life of America. Some little speculation is being indulged in as to whether or not the new paper mill under construction for the Riverside Fibre and Paper Company, of Appleton, will sell its product through the General Paper Company. It is understood that no decision has been reached on this point. The new mill, when it commences operations, will be a very important factor to be reckoned with in the market, as it will represent the latest advancement in the art of paper making, and will make as much paper on one machine as some of its present competitors in this valley make on two or three machines. It will make the grades of paper that are at present handled by the General Paper Company, and its attitude toward that corporation, therefore, becomes a matter of no little importance. FOX RIVER.

Sherman Envelope Co. Wins Infringement Case.

BOSTON, Mass., June 2, 1902.—The patent suit brought by the United States Envelope Company against the Sherman Envelope Company, of Worcester, about two years ago, for an alleged infringement of an ejector patent issued to the United States Envelope Company, has been decided in favor of the defendant.

The decision has been handed down by Judge LeBaron B. Colt, of the United States Circuit Court, who dismisses the bill in equity brought by the United States Envelope Company, and declined to issue the injunction prayed for. The only defense offered by the Sherman Envelope Company was non-infringement. The claims related to the mechanism for the completed envelope from the folding box. Experts from the Sherman Envelope Company made it perfectly clear to the judge that the method in the Sherman machines was no infringement on the grounds at issue.

The judge in rendering his decision said: "The important and novel features of these two claims, in view of the prior part, is the swinging frame or movable support for the front flap folder. In the defendant's machine, the small aperture for the discharge of the envelope beneath the front flap folder is made by simply cutting away the under side of such folder or its support. In my opinion, there is absent from the defendant's structure the 'swinging frame,' or 'movable support,' for the front flap folder, which is the essence of the Heywood improvement; and consequently there is no infringement.

"The movement of the front flap folder in the defendant's machine is not essentially different from the movement of the old front flap folders, and the opening for the discharge of the envelope is not due to any movement of the folder away from the edge of the bed, in the sense of the Heywood patent, but to the structural difference which results from the cutting away the under side of the folder.

"Upon careful consideration, I find myself unable to agree with the reasoning of the complainant's expert, to the effect that the horizontal bar which supports the front flap folder in the defendant's machine has the swinging movement of the Heywood frame. Bill to be dismissed with cost."

Moving a Southern Paper Mill.

ORANGE, Tex., May 29, 1902.—M. Hesser, superintendent and general manager of the paper mill that will shortly locate here, left on Wednesday for Pensacola to superintend the dismantling of the mill at that place preparatory to its removal here. Mr. Hesser said: "Just as soon as the present run of the mill is over we will commence tearing down machinery and ship it to Orange, where it will be placed in position as rapidly as possible. This morning I saw the architect for the buildings we are to occupy, and he is making rapid progress with the plans. By the time the machinery arrives here the buildings will be ready to receive it."

Superintendent Hesser was then asked to express his opinion of Orange and the site selected on which the mill will be erected. He said: "I am enthusiastic over the result of the change. The site selected is suitable in every respect for our business, for there is room enough for us to expand, which we certainly intend doing. There is no reason why we should not have a \$1,000,000 plant here in a very few years. Every facility that is required for the conduct of our business is to be found in Orange."

STRIKE OR LOCKOUT?

Trouble at the Mill of the Hampden Glazed Paper and Card Company—Company Says Mill Is Running Satisfactorily.

Western Massachusetts Office
THE PAPER TRADE JOURNAL,
HOLYOKE, Mass., June 3, 1902.

There is either a strike or a lockout at the mill of the Hampden Glazed Paper and Card Company, in this city, according to whether you are in sympathy with the men or the company. As a consequence some 170 men are affected. The trouble is caused by the request of the employees that they be allowed Saturday afternoons off without loss of pay. The request was made some time ago, and the men say that no answer was given by the company, and all efforts to get an answer or a conference met with the same result. It became pretty well known to the company that the men would require an answer in some definite form, and the mill was closed down last Wednesday after notices had been posted to that effect.

The men say that a delegation was sent to the company's offices this morning for the purpose of treating with the company in the matter, and if possible to arrange a peaceable settlement, but no satisfactory result was obtained, and if the statements of the men are correct the company's representatives told the delegation that no conference would be held with any committee, and that when any talking was to be done the concern would do it direct with the men or such numbers of them as they chose to. The men are somewhat wroth over the reception accorded them, and all manner of dire things are promised the company.

An attempt was made this evening by your correspondent to interview an officer of the company regarding the trouble, but nothing could be obtained further than the statement that the mill was running satisfactory to the company.

Hours of Labor in Black River District.

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., June 3, 1902.—So far as the Black River Valley is concerned the hours of labor in paper mills seems to be definitely settled by the adoption of the plan for shutting down from 6 o'clock Saturday night until 7 o'clock Monday morning. The mills of the International Paper Company began running on this schedule yesterday. Heretofore they have been run Saturday nights, the men being paid for the extra twelve hours. The action of the International people in granting the request of the International Brotherhood of Paper Makers for the shorter week places all the mills in the Black River district on an equal footing, and will probably lead to the adoption of the same schedule by all manufacturers in the East. President Mackey, of the Brotherhood, has been in Millinocket, Me., in conference with officers of the Great Northern Paper Company, and it is understood that that company, which some time ago introduced the three tour system, will go back to the old plan of two tours with Saturday night off. While the shorter week has been adopted by all the mills in Northern New York the Brotherhood officers say the members of that organization are not arbitrary in the matter, and if a mill is rushed to fill an order at a certain time they are willing to work overtime. While it is understood that no agreement has been made to have Saturday nights off for eight months of the year and work Saturday nights for the remaining four months as was proposed by the committee of manufacturers at Niagara Falls a short time ago, mill owners are not to suffer from a shutdown that would prevent them from filling their orders and filling them on time. This plan was suggested by one of the leading manufacturers in the Black River Valley outside of the International Company some time ago. It seems likely to give satisfaction to all concerned.

Strike at Franklin and Bellows Falls Avoided.

FRANKLIN, N. H., May 29, 1902.—To the hearty satisfaction of everybody, the strike among the paper makers, which was scheduled to go on at noon to-day, was avoided, a settlement having been reached in New York at a conference between Samuel Gompers, of the American Federation of Labor, and F. H. Parks, of the International Paper Company. Officers of the local Laborers' Protective Union, which is under the wing of the American Federation, first received messages last night from New York, declaring that a settlement had been made by the committee of the Federation to whom the paper makers left the adjustment of their differences. This morning another message was received, telling the paper makers to continue at their work as an agreement had been reached.

The Federation was holding out for an advance of 2½ cents per hour for all laborers in the paper and pulp mills outside the machine tenders, back tenders, overseers and the like, and an agreement on the part of the company

to employ only union labor. At a conference last Saturday the International Paper Company offered to grant a raise of 5 per cent., but this would not be listened to, and finally a settlement was made yesterday afternoon and the local paper makers, who were expecting to quit work to-day, were elated at the message giving news of the settlement.

A meeting was held last night, and another this morning, at which the forces of the local union were augmented by new members, and it is claimed that very few men are now at work in any of the three paper mills or the four pulp mills who are not connected with a labor organization under the direction of the American Federation of Labor.

Menasha and Neenah Firemen Threaten Strike.

[FROM OUR REGULAR CORRESPONDENT.]

APPLETON, Wis., June 2, 1902.—A strike of the firemen in some of the paper mills at Neenah and Menasha is threatened, but it is hoped that the matter may be settled this week satisfactorily to all concerned. It seems that several weeks ago the proprietors of some of the mills which had granted the shorter hours schedule received a request from their firemen that the firemen be put on three shifts of eight hours each, instead of two shifts of twelve hours each as was the custom, without change of pay. It was requested that a reply be made by May 15. The manufacturers made no reply, and it was rumored late last week that a strike would be the result to-day. Up to this afternoon, however, no strike has occurred, as the Menasha mills upon whom the demand was made have granted the request, and in the case of the Neenah mills negotiations are in progress, during the pending of which the firemen have agreed to continue with their duties.

FOX RIVER.

Ontario Government Railroad.

[FROM OUR REGULAR CORRESPONDENT.]

TORONTO, Ont., June 2, 1902.—The provincial government has just entered upon a work of great interest to lumbermen and the holders of pulp wood limits, in the letting of the contracts for clearing the right of way of the first 20 miles of the Temiskaming Railway, from North Bay northward through the great Temagami timber reserve to the Montreal and Blanche Rivers, where there are large timber and pulp limits. The line will be in all (that is the first section of it) 100 miles long, and will be constructed and operated as a government road. It is held that the provincial lands along the line can be bonded for sufficient to construct and equip the road. The first object of the road is to open up a large belt of farming land around the head of Lake Temiskaming, but the claim is that running through great forests belonging to the government the danger from fire can be lessened by having the road and all employees directly controlled by the government, and thus responsible for the preservation of the timber. The first contract was for clearing 220 acres of the right of way 99 feet wide, preparatory to the construction of the roadbed. The successful tenderer was Patrick Furlong, of Eganville, whose tender was for \$15 per acre. The contractor agrees to prepare, according to specifications, all of the timber cut. The pine and other merchantable timber will be cut into saw log lengths, and the cedar into ties, telegraph poles and posts.

Overabundance of Water in Wisconsin.

[FROM OUR REGULAR CORRESPONDENT.]

APPLETON, Wis., June 2, 1902.—A remarkable transformation has occurred within the past few weeks in water power conditions in this valley. The prospective great scarcity of water has changed to an actual superabundance. Every effort is now being made to get rid of water rather than to save it. Every sluice gate in every dam on the river is open, and still the water level continues gradually to rise. The strong current created by the open sluices frequently interferes with the navigation of steamers, so that some of the gates have to be closed while they are passing, and some of the mills also are seriously troubled with back water. Some of the pulp mills have occasionally been compelled to shut down. On account of the wide open condition at the dams the river is higher than it has been for ten years, though the same cannot be said of the level of Lake Winnebago. The Wisconsin River district also has more water than it can use, though no annoyance from back water is reported there.

FOX RIVER.

Log Boom at Grande Piles Breaks.

[FROM OUR REGULAR CORRESPONDENT.]

TORONTO, Ont., June 2, 1902.—The Public Works Department at Ottawa has been advised of the breaking of the boom at Grande Piles, St. Maurice River, and 300,000 logs are now on their way to the St. Lawrence. Should they reach the lower boom before it is strengthened over 1,000,000 logs will be cut loose. The department has sent word to have the lower boom strengthened without delay.

NEW YORK JOTTINGS.

The old and the new addresses of the Berlin Aniline Works got badly mixed up in this column last week. The office of the concern is now at Nos. 213 and 215 Water street. Much better light and air are two prominent advantages derived from the change. This is the main office of the Berlin Aniline Works. Branches are maintained in Boston, Philadelphia, Chicago, Cincinnati and Charlotte, N. C.

The paper and paper stock business carried on under the name of the late James M. Fitz Gerald will hereafter be done at 268 and 269 West street. This is the site of the old stock house which was destroyed by fire last winter. Since then the concern has had temporary quarters for its stock business on Laight street. Now that the old place has been rebuilt and fitted up in good shape the executors of the estate have decided to go back to it again. As the stock of paper in the store 413 West Broadway has been sold out that warehouse has been given up as a place of business. The concern will not carry a stock of paper hereafter, but will do its business in paper only from the dock. The store in West Broadway is now "to let." The office and business are now combined at 268 and 269 West street.

The Gilbert Paper Company, of 123 Prince street, has this week been obliged to increase its floor space to make room for the stock of the National Paper and Twine Company, which it purchased last week. The basement of the company's present store, 25x100 feet, has been secured. The additional room affords the concern improved facilities for the transaction of its business. The company's staff of salesmen has also been augmented. For a three year old the Gilbert Paper Company shows a commendable spirit of "hustle."

Now that the dull season is almost on us—with its Panama hat—the paper stock men, especially those who sleep in Brooklyn, are debating the great question of "Can a man remain in the paper stock business and be good?" The reason for the revival of the subject at this time is due to the fact that certain paper manufacturers had of late been writing very frank letters to the stock men. Naturally there is an injured innocence feeling on the part of the latter because of the imputations. By way of indicating their opinion of those who throw stones the stock men will take for their next subject, "Does the paper manufacturer hold his pew in church for business or for family reasons?" But instead of this debate the suggestion has been made that both sides play a game of ball.

The Era Box and Printing Works is the name of a new concern that has just started out with the determination to secure some of the folding box business of this territory. Its plant is located on the upper floors of the building 214, 216 and 218 Sullivan street, the main portion of which is occupied by E. Gerbereaux, the well-known solid box maker. The new enterprise is under the management of Edward Gerbereaux, who has been associated with his father for a number of years in the manufacture of stiff paper boxes. The Era Box and Printing Works owes its origin to the rapidly increasing demand for folding boxes on the part of those who have long been using plain and stiff boxes.

J. H. Bertine & Co. is the copartnership name under which the business of J. H. Bertine, of 81 Fulton street, will hereafter be conducted. J. H. Bertine and John A. Schlecht are the members of the firm. They are stationers, printers and lithographers.

The American Sports Publication Company, 16 and 18 Park place, suffered a loss of \$2,000 by fire on Thursday night of last week.

Upon application of John Gudebrod, Hon. George B. Adams in the United States District Court has appointed W. J. Kennedy receiver for the Printwell Publishing Company, of 244 West Twenty-third street. An involuntary petition in bankruptcy was filed against the company on May 24. The company was incorporated in March, 1901, with a capital stock of \$50,000. John C. Wilcox was the president. It published a weekly paper known as The Concert-Goer. The assets are estimated at \$7,000 and liabilities at \$19,000.

"The cost of teaming is getting to be one of the big items of expense in the paper business," said a prominent jobber this week. "It has grown out of all proportion to the increase in the volume of goods handled," said he; "and, considering the small margin of profit in paper nowadays, the problem of cheap delivery is the most troublesome one we have to deal with."

THE FOLDING BOX COMBINATION.

It May Yet Fall Through Owing to the Attitude of the Dayton Paper Novelty Company—The Project Treated With Indifference by Some Others.

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, June 2, 1902.—Despite the most favorable reports from some sections pertaining to the formation of the folding box combine, it is said in some sections that the project may yet fail of consummation. It is apparent that the Dayton Paper Novelty Company has been a stumbling block in the organization of the combine. While all of the other local companies have given acceptable options it is said that some of the proprietors felt that they could not afford to stay out. It is a known fact that the formation of the combine is a matter of sheer indifference to some and very distasteful to others, who prefer to continue the personal management of a profitable business. The decision to reduce the capital from \$9,000,000 to \$7,000,000 rather lends probability to the report that the folding box combine is yet a long way from completion. The Dayton Paper Novelty Company has given but one option, and that is said to be the last and only one it would give, preferring to remain out. The option was rejected as being too high, but the company claims that its business justifies the placing of a substantial value on its property, and that its patents and products are in many instances exclusive. It is claimed that the failure to offer much of a cash inducement to box concerns has had a deterring influence on the speedy completion of the enterprise. On the other hand the promoters are certain of success.

M. V.

No Blame on Company for Digester Explosion.

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, June 2, 1902.—Coroner Hutcher has completed his official investigation of the digester disaster at the pulp mills of the Geo. H. Friend Paper and Tablet Company, in West Carrollton, Ohio, examining a number of witnesses, and does not fix responsibility upon the company. The coroner states that he has made a thorough

inquiry, and is satisfied that the machinery was in good working order up to the time of the fatality and that no blame attaches to the company. Nearly all employees who were near the digester when the yoke of the valve gave way, liberating the plate and permitting an explosion which shook the building, and which resulted in the death of Jacob Skane and the serious injury to others, were summoned to testify. Don Harding, who was most dangerously hurt and who was placed in Deaconess Hospital here, is improving and will recover. His sight will likely also be restored. All of the others were severely injured and rapidly recovered. The repairs to the digesters have been completed and the loss was not heavy. Other digesters are also being installed in the plant.

M. V.

Canadian Paper Makers Busy.

[FROM OUR REGULAR CORRESPONDENT.]

TORONTO, Ont., June 2, 1902.—Paper makers here are in a decided good humor over the good business of the past month, which is better than known for many years at this season of the year. Some mills state that they have more orders than they can fill. Though there has just been held a general provincial election, this has not adversely affected business in any line, probably because not coming at a fixed time nobody knows anything about an approaching election till the short campaign is upon them. The paper mills in fact have been all the busier on account of the election, as practically all the newspapers of the province, little and big, have been getting out larger editions and increasing their circulation, both of which mean more orders for the mills. The fact, too, that the provincial governments have nothing to do with tariffs or with trade and commerce also had much to do with keeping the volume of general business up to the mark.

L.

In regard to the rumor that the International Paper Company "intends to issue bonds to raise money for the purpose of strengthening the company's position, in view of the increase of independent companies in the industry," Treasurer Burbank, of the International, says that there is no truth in the story.

FOREIGN NOTES.

It has been decided to remove the Imperial German Paper Testing Office from Charlottenburg to Gross Lichtenfelde.

In reporting upon the trade of Trieste, Austria-Hungary, the British Consul (H. S. Churchill) mentions that the exports to the United Kingdom show a further increase, among the principal articles being paper and cardboard. The tables shown deal with the year 1900, when paper and cardboard were exported to Great Britain and Ireland to the amount of 30,538 met. quintals, compared with 23,338 met. quintals in the previous year. To British India paper of all kinds was exported to the amount of 51,271 met. quintals in 1900, compared with 59,982 met. quintals in 1899. At Laibach, Carniola, a paper factory was erected last year.

Paper makers in Austria-Hungary complain of the heavy taxes which they have to meet. The subject was recently ventilated in the Austrian Parliament. The Elbermühl Paper Mills, credited with a profit of 80,000 florins, paid 18,300 florins in taxes, and the Leykam Josefthal Mills, with a profit of 240,000 florins, paid 78,800 florins in taxes, the former being 22 per cent. and the latter 32 per cent. of the profits made. Although German mills pay only from 3 to 4 per cent. for taxes, they have to meet additional expenses, owing to accident insurance, old age pensions, invalid persons and sanitary arrangements.

The British Consul (Mr. Payton), in reporting upon the trade of Calais, France, and district for the year 1901, mentions that there are ten workshops for the production of cardboard in Calais, and that trade shows considerable improvement. In 1901 464 tons of rags were received from the United Kingdom, compared with 765 tons in the previous year. The exports of rags from Calais to the United Kingdom in 1901 amounted to 243 tons, and in the previous year to 108 tons. At Boulogne 6,125 tons of waste paper, &c., were received, an increase compared with the previous year, when 5,422 tons were imported. Paper and cardboard were exported from Boulogne to the extent of 1,276 tons in 1901 and 1,273 tons in 1900.

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NOTES OF THE TRADE.

Work has been begun on the rebuilding of the Flambeau Paper Mill at Park Falls, Wis.

Arnold, Hoffman & Co., Incorporated, has removed its Philadelphia office to 115 and 117 South Front street and 110 and 112 South Water street.

W. H. Bascom, formerly with Coy, Hunt & Co., New York, is now the senior member of W. H. Bascom & Co., paper and twine dealers, 44 Vine street, Worcester, Mass.

A few weeks ago the Burt Manufacturing Company, of Akron, Ohio, received an order for a large Cross oil filter from the Anheuser-Busch Brewing Association, of St. Louis. The filter was shipped and gave such excellent satisfaction that the Burt Company has just received a duplicate order from the brewing company.

At the annual meeting of the Keith Paper Company, Turners Falls, Mass., the following officers were elected: President, A. Pagenstecher; clerk and treasurer, C. M. Burnett; directors, A. Pagenstecher, C. T. Crocker, Jonathan Brelkey, E. D. Jones, W. H. Main, B. N. Farnen, T. G. Carson, E. Warner, C. M. Burnett.

The early history of paper making in Germantown, which is the history of paper making in this country, is told with illustrations in the exhibit of books, papers and historical objects shown by Judge Pennypacker in the exposition of "Old Germantown," now being held in that historic suburb of Philadelphia. Judge Pennypacker has made valuable, original research into the early history of Germantown, and has given much attention to its early printing and paper making industries. Judge Penny-

packer is the leading candidate for the Republican nomination of Governor.

The White & Wells Company, of Waterbury, Conn., whose paper box factory in Naugatuck was destroyed by fire on April 26, has purchased a lot on Hotchkiss street in that place and will commence the erection of a new building as soon as possible. The lot extends 100 feet front on Hotchkiss street, and runs back toward Hotchkiss field 240 feet on one side and 223 feet on the other. It is expected that the plans for the new factory will be ready for the contractors to figure upon within a few days. It is reported that the proposed new factory is to be of brick and three stories in height.

L. G. Fisher Ill With Pneumonia.

L. G. Fisher, president of the Union Bag and Paper Company, has been quite seriously ill of pneumonia at the Gaynor House, Ballston, N. Y. Mr. Fisher, accompanied by his son, L. G. Fisher, Jr., went to Ballston on Monday of last week to help adjust matters with the employees of the company at that place, who were at that time out on strike. According to the latest report received from Ballston, Mr. Fisher's condition was said to have improved, the crisis in the disease having been passed. But while he is on the mend the patient is still considered a pretty sick man.

Bradley-Kirkman-Reese Company.

James E. Bradley, Gordon L. Reese and H. Newton Schillinger, formerly with the Hubbs & Corning Company, Baltimore, Md., have severed their connection with that company in order to go into business for themselves. They

are joined in their new enterprise by Percy V. Kirkman, of High Point, N. C. The incorporated name of the new concern is the Bradley-Kirkman-Reese Company. The capital stock is \$25,000, and the place of business 105 West German street, Baltimore, Md. This company has a branch office and warehouse at High Point, N. C. It will deal in paper, twine and excelsior. A large stock of these goods have already been received from the mills. The Maryland telephone number of the new addition to the jobbing trade is "Courtland 1901." The officers of the company are: President, James E. Bradley; treasurer, Gordon L. Reese, and secretary, H. Newton Schillinger.

Receiver for Rubel Company.

NEWARK, N. J., May 29, 1902.—Vice-Chancellor Emery has adjudged the Rubel Paper and Lithographic Company of Nutley insolvent, and has appointed Richard C. Jenkinson, of this city, receiver of the concern, with bonds fixed at \$50,000. The adjudication was made on application of the corporation, which was represented by James E. Howell, and on an affidavit from the treasurer, which was appended, making a detailed statement which showed to the satisfaction of the Vice-Chancellor that the step was advisable. Mr. Howell stated that board of directors had passed a resolution authorizing the treasurer's course.

Order was issued allowing the receiver to carry on the business of the concern until orders on the books amounting to about \$6,000 had been filled.

Mr. Howell said that the liabilities of the company would amount to \$90,000, and the assets to \$100,000.

A number of the larger creditors were represented by counsel.

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MORDANTS.

**Care to Be Taken—Hints from Work in Textile Field—
The Advantages to Be Derived from
Proper Temperature.**

By H. ROMANOFF.

In coloring textiles great attention is paid to mordanting before dyeing, but in the paper trade the use of mordants is for aniline colors more the exception than the rule. A careful chemical examination of the products of those mills turning out the highest grade of colored papers will show, however, that some expert colorers of paper have borrowed a hint or two from the textile arts, and that moreover much to their advantage. Economy of coloring matter and comparative freedom of back water from dye are two only of the many advantages to be gained by a use of the proper mordanting agents on many kinds of paper stock. One of the most generally useful mordants is sumac, and this for paper making purposes is best used in the extract form at about 51° Twaddle. In this form it keeps well unaltered for a long time if covered up with sacking and a board. Besides tannic acid the sumac extract if unbleached contains some characteristic yellow and red coloring matters, the presence of which must be borne in mind when making light shades and tints. For the latter it is sometimes best to use crude tannic acid in powder, light yellow and almost stainless, which, although apparently somewhat expensive, gives results which are always uniform, and this, of course, saves quite some annoyance and trouble. There are some special grades of first-rate bleached sumac extract in the market, but these always require testing before use, to be sure that the decolorizing has not impaired their efficiency. The red and yellow impurities above mentioned are by no means adulterations, they are natural to the product and advantageous for some kinds of coloring, but, as aforesaid, injurious for very light shades or tints.

Sumac extract, whether in liquid, semi-solid or in granular form, should easily dissolve in water without leaving any sediment. The stock package should never be kept in a damp, warm place, or it may mould and entirely spoil.

Basic colors, such as Bismarck browns, methylene blues, safranines, &c., require a good deal of sumac, and it is well to add it as long as possible before the dyeing is

done, so that the fibres will become well impregnated with it during their travel under the beater roll. In using mordants the beater should be furnished as heavily as possible for obvious reasons. Where this is feasible it is also advisable to use a steam pipe and bring the contents of the beater to the temperature most suitable for the coloring matter used. Many mills object to this, but those who have tried it know the advantage gained is great, especially when using the diamines and some other patented colors which are, however, not dyed with sumac, but usually with Glauber's salts, or common salt, to precipitate the colors onto the paper fibre. For the auramines the temperature must not exceed 140° Fahr., for cotton blues (generally known as paper and soluble blues) about 170° Fahr. is not too high; Bismarck browns, Vesuvines and similar colors go on well at about 120° Fahr. For the various marks of azo-chrysoindines you can go up to 180° Fahr., and for methylene blues somewhat lower, say, about 160° Fahr. Methyl violets and safranines go on well at about 140° Fahr., magentas and fuchsines at about 120° Fahr., while for methyl green the temperature should not go above about 100° Fahr. The influence of temperature on textile dyeing has been well tried out and is pretty well understood, but very few paper colorers, on the other hand, avail themselves of this simple means of securing results unobtainable in the cold, and those who have once used this method naturally keep the details to themselves. Owing to the great variations in dyestuffs, mordants and paper stocks none but general instructions can be given, but a little intelligent experimenting will give information that will be a genuine surprise.

Sumac alone is a valuable aid in coloring paper, but if the sumac is followed by an addition of a soluble antimony compound still more astonishing results are obtained, and this, by the way, is the method used in the German mills making the rough surfaced "mottled" papers which are now made largely of wood and cotton fibre. Before dyeing the hot contents of the beater are made neutral with ammonia. In order to use this method it is needful to know how much of each of the various commercial soluble antimony compounds corresponds to 100 parts of tannic acid, which is the active principle of sumac extract. These proportions are about as follows:

Tartar emetic.....	27 parts.
Antimony potassium oxalate.....	49 "

Antimony salt.....	25 parts.
Antimony sodium fluoride (R. Koepf & Co.).....	18 "

It is also useful to know how the various soluble antimony compounds in the market compare in strength, as while well known and much used in the textile arts, they are less well known in paper making. Taking prime merchantable tartar emetic (containing about 42 per cent. of antimony oxide) in good crystals as a standard to equal 100 points the other preparations stand about as follows:

Antimony potassium oxalate.....	183
Antimony salt.....	93
Antimony sodium fluoride.....	66

The writer has recently heard of a new preparation called antimony lactate, which appears to have special points which would appeal to the practical paper maker desiring to produce specialties difficult to match. But little is known about it so far in practice. Another hint which may be of service is the following particularly applicable to wood papers: Turkey red oil (the cheapest grade made from anything but castor oil) is precipitated by Glauber's salts. The fibre mordanted in this manner gives peculiar results with aniline colors.

Envelope Factory for Baltimore.

BALTIMORE, Md., June 2, 1902.—Efforts to raise money for the establishment of an envelope factory in this city are meeting with considerable success, and it is probable that such a plant will be added to Baltimore's industries within a short time.

The promoters have practically decided upon a site in Old Town, near Belair Market, where there will be plenty of light. The building will cost about \$50,000, and it is desired to raise that sum in this city. The University Envelope and Papeterie Manufacturing Company, of Philadelphia, is back of the enterprise. It has assurances of orders sufficient to keep the plant running for six months as soon as it is established. The specialty will be in making envelopes having a thread under the flap, by which the envelope may be readily opened. Some 150 hands will be employed in the factory.

The company has had sites offered it free in other localities, but wishes to locate in Baltimore because there is no envelope factory in the South. A number of local capitalists have subscribed to the fund.

EDWARD D. JONES, PRES.

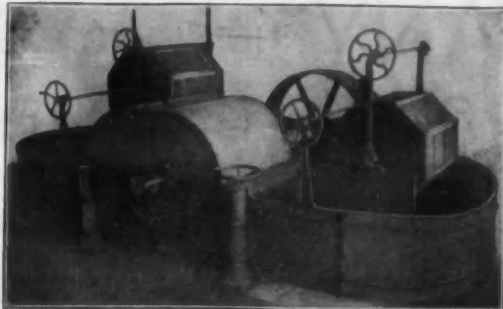
EDWARD A. JONES, TREAS.

E. D. JONES & SONS CO.

MANUFACTURERS OF

PAPER MAKING MACHINERY.

Mechanical Engineers.



PATENT IRON OR WOOD TUB BEATERS, WASHERS OR MIXERS.



ROTARY FIRE AND SUPPLY PUMP.

TURBINE WATER WHEELS.
Fly Bars and Bed Plates of all kinds.

Beating Engines
Washing Engines
Mixing Engines
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Jordan Engines
Rotary Pumps
Thrasher Dusters
Fan Dusters

Arm Dusters
Railroad Dusters
Devil Dusters
Wheat's Rag Dusters

Wagg's Patent Duplex Refining Engines, Beater and Refining Engine Bars.



THE BEST FOR EVERY KIND OF STOCK AND ALL KINDS OF PAPER.

—TIME OF BEATING POWER AND COST GREATLY REDUCED!!—

Wagg's Patent Duplex Refining Engine.
APPLETON MACHINE CO., APPLETON, WIS., WESTERN AGENTS.



DUPLEX AND TRIPLEX BEATING ENGINE BARS.

R. J. DOWD KNIFE WORKS, BELOIT, WIS., WESTERN AGENTS

PITTSFIELD, MASS.

The Sandy Hill Iron & Brass Works,

SANDY HILL, N. Y.,

BUILDERS OF

Cylinder and Fourdrinier Paper Machines.

Regarding Our Centrifugal Screen.

We know of no better evidence of the worth of a machine than that offered by satisfied users, and we venture to say that no machine has ever received stronger indorsement from users than has our **CENTRIFUGAL SCREEN.**

We quote from a few letters received:

Crown Paper Co. say:

"It has proved a success and we are well pleased with the work it does."

Cliff Paper Co. state:

"Your Centrifugal Screen has made a decided improvement in the quality of our pulp."

The Gothenburg Machine Co. (our Representatives in Sweden) say:

"Everybody who has seen the Screens highly appreciates their work."

The Sault Ste. Marie Pulp and Paper Co. say:

"The three Screens purchased from you recently are working very satisfactorily."

We could fill this page with flattering indorsements of our **CENTRIFUGAL SCREEN** similar to the above.

We invite correspondence and thorough investigation regarding this machine.

BAKER & SHEVLIN CO., PATENTEES AND SOLE MANUFACTURERS,
SARATOGA SPRINGS, N. Y.

NOTICE TO THE TRADE.

Notice is hereby given that the patent known as the McEwan patent, being patent of the United States No. 492,927, granted March 7, 1893, for an improvement in paper board, known to the trade as news board, has been sold to the National News Board Company.

All licenses to manufacture news board heretofore granted by the National Board and Paper Company, and by said National Board and Paper Company assigned to the McEwan Brothers Company, have been cancelled. All rights to manufacture news board under said patent will hereafter be granted solely by the National News Board Company.

McEWAN BROTHERS COMPANY.

August 10, 1900.

TO ALL MAKERS, VENDORS AND USERS OF NEWS BOARD.

We give below a list of the mills duly authorized by license from this Company to manufacture news paper board. The board made by our licensees will bear the label adopted to designate the regular licensed board from that of infringers:

- American Straw Board Co., Chicago, Ill.
- American Writing Paper Co., Springfield, Mass.
- Beveridge Paper Co., Indianapolis, Ind.
- Bogota Paper Co., New York City.
- Berkshire Box and Paper Co., Melville, N. Y.
- H. C. & H. J. Davis, Davisville, N. H.
- Geo. W. Downs, Newark, N. J.
- Eyster & Son, Hallsboro, W. Va.
- Enterprise Straw Board Co., Honeoye Falls, N. Y.
- McEwan Brothers Co., New York City.
- Pairpoint Corporation, New Bedford, Mass.
- Stony Brook Paper Co., Whippany, N. J.
- Stony Brook Box Board Mills, Chatham, N. Y.
- Uncas Paper Co., Norwich, Conn.
- Westport Paper Co., Westport, Conn.
- Vieth's Paper Mills, Marion, Ind.
- John A. Shutts, Penn Yan, N. Y.

NATIONAL NEWS BOARD CO.
277 Broadway, NEW YORK CITY.

The **BEST** and **CHEAPEST**



GRATE BAR FOR ANY KIND OF FUEL.



SHAKING GRATES. DUMPING GRATES.
W. W. TUPPER & CO.
39-41 Cortlandt St., NEW YORK.

THE J. H. HORNE & SONS CO., Lawrence, Mass.

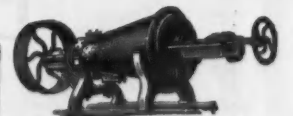
BUILDERS OF
HIGH-GRADE
EXTRA HEAVY

PAPER MACHINES

And General Paper Mill Machinery

OUR NEW **MONARCH** MACHINE

Is Especially Designed for Fast Running.

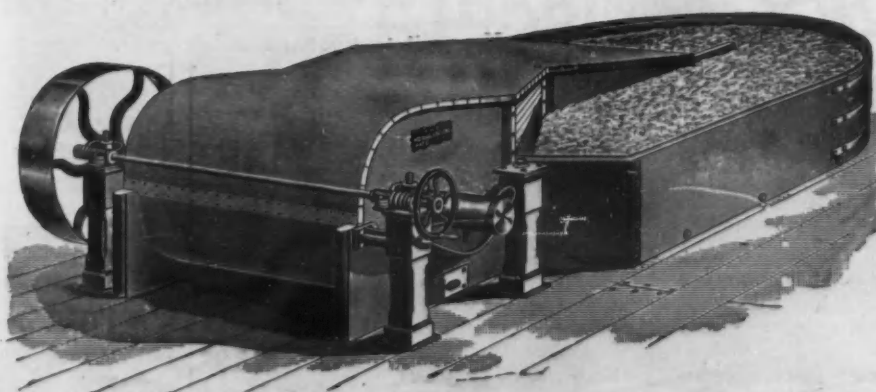


The "Horne" Jordan

IS FAST REPLACING

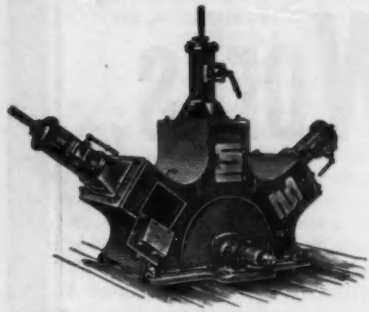
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OTHER MAKES



THE IMPROVED "HORNE" ENGINE, PATENTED AUGUST 10, 1866.

THE NEW AMERICAN TURBINE.



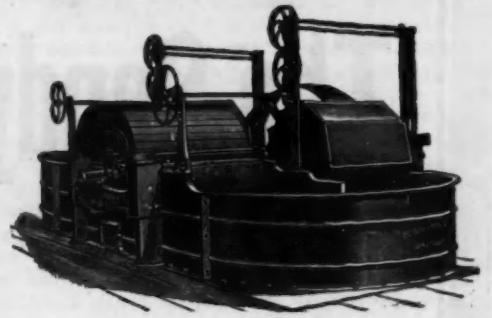
Manufactured by

**The Dayton
Globe Iron
Works Co.**

No. 50 South Ludlow Street,
DAYTON, OHIO, U. S. A.



We also Manufacture
**RAG ENGINES,
WOOD PULP
GRINDERS,
Shafting,
Gearing,
Pulleys, &c.**



ESTABLISHED 1842.

CHENEY BIGELOW WIRE WORKS SPRINGFIELD, MASS.

MANUFACTURERS
OF

FOURDRINIER WIRES,

DANDY ROLLS,
CYLINDER MOLDS.

TELEPHONE
372

ALSO
BRASS, COPPER, and IRON
WIRE CLOTH,
BANK and OFFICE RAILINGS
and GRILLE WORK.

Sole Manufacturers of the BELL PATENT FLAT WIRE for Book Papers.

MANITOWOC DIGESTERS

ARE USED BY THE FOLLOWING MILLS:

Kimberly & Clark Co., Niagara, Wis..two 15x48 ft.
Kimberly & Clark Co., Kimberly, Wis..one 15x35 "
Kimberly & Clark Co., Kimberly, Wis..two 14x34 "
Riverside Fibre Co., Appleton, Wis....one 14x35 "
Riverside Fibre Co., Appleton, Wis....two 10x30 "
Ypsilanti Paper Co., Jackson, Mich....one 14x35 "
Floriston Pulp and Paper Co., Floriston,
Caltwo 10x40 "
Crown Paper Co., Oregon City, Ore....one 14x35 "
Central Paper Co., Muskegon, Mich...two 15x42 "

Union Bag and Paper Co., Ballston,
N. Y.....one 15x42 ft.
Bayless Pulp and Paper Co., Austin, Pa.two 15x42 "
Combined Locks Paper Co., Combined
Locks, Wis.....one 15x42 "
Sault Ste. Marie P. & P. Co., Sault Ste.
Marie, Ont.....two 17x54 "
Parsons Pulp and Paper Co., Parsons,
West Va.....one 16x52 "

The Gould Paper Co., Lyon Falls,
N. Y.....three 14x35 ft.
Hollingsworth & Whitney Co., Water-
ville, Me.....one 15x42 "
Maritime Sulphite Fibre Co., Chatham,
N. B.....two 14x32 "
Malone Paper Co., Malone, N. Y.....one 10x35 "
Traders Paper Co., Lockport, N. Y....two 11x37 "
Remington-Martin Co., Norfolk, N. Y..two 11x37 "
Aldrich Paper Co., Natural Dam, N. Y..two 11x37 "

AND MANUFACTURED BY MANITOWOC STEAM BOILER WORKS, Manitowoc, Wis.

Incorporated 1891; Capital, \$10,000.

W. J. HESS, President and Treasurer.

Enlarged 1900; Capital, \$100,000, full paid.

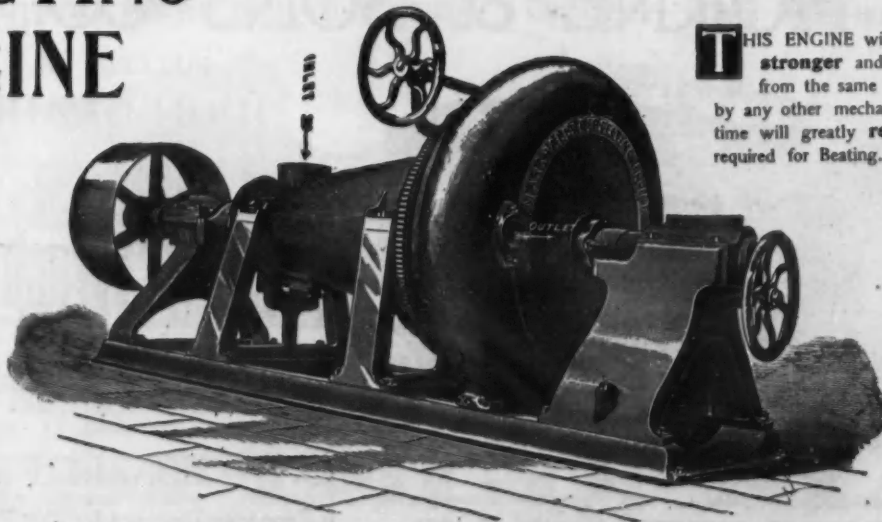
Builders of Boilers, Pulp Digester, Structural Iron and Repair Works for Paper and Pulp Mills.

Agent J. G. JONES, Carthage, N. Y.

MARSHALL'S PATENT PERFECTING ENGINE

Used on all classes of Stock and every quality of Paper.

Used in the Leading Mills of the World



THIS ENGINE will produce a better finished, stronger and more even sheet of paper from the same materials than can be produced by any other mechanical process, and at the same time will greatly reduce the time and power required for Beating.

BENTLEY & JACKSON,
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Near Manchester.

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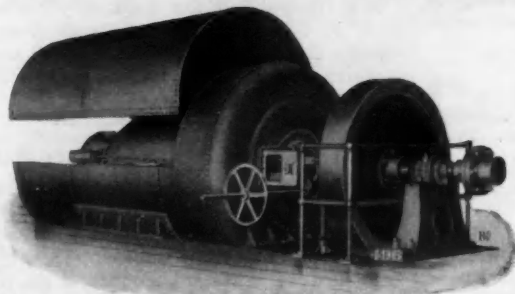
MARSHALL
ENGINE
COMPANY,
TURNER'S FALLS,
MASS.

THE VICTOR TURBINE.

The attention of Paper Mill owners is called to this celebrated wheel as being particularly adapted to their use.

Features Worth Considering.

Great Capacity, High Speed, Unequaled Efficiency, Easy Working Gate, Close Regulation, Steady Motion. Greatest power from a limited quantity of water at smallest cost. We also make



STILWELL'S FEED WATER HEATER and PURIFIER, STEAM and POWER PUMPING MACHINERY for every purpose. Jet and Surface Condensers and Air Compressors.

THE STILWELL-BIERCE & SMITH-VAILE CO., M. O. B. 286, DAYTON, OHIO, U. S. A.



WATER WHEELS

For Heads of 3 Feet to 2000 Feet.

Recent tests at Holyoke enable us to guarantee: The largest power ever obtained from a Wheel of the same dimensions. The highest speed ever obtained for the same power. The highest mean efficiency when running from half to full gate. We guarantee also: A runner of the greatest possible strength. A gate unequalled in quickness and ease of opening and closing.

THESE WHEELS ARE SPECIALLY DESIGNED AND ADAPTED TO PAPER and PULP MILL PLANTS.

Tests Show Over 81 Per Cent. Average Efficiency for HALF to FULL Water.

State your HEAD and send for Our Latest Catalogue, Prices and Terms. JAMES LEFFEL & CO., Springfield, Ohio, U. S. A.

TURBINES

On Horizontal or Vertical Shafts.

RISDON CYLINDER and REGISTER GATE TURBINES.

PEJEPSOT PAPER MILLS, ME., have thirty-seven of these Wheels in use.

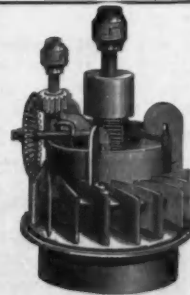
Full Gate.	7-9	3-4	5-8	Average.
Tests in Holyoke Flume.	.8694	.8472	.8014	.7601 .8198

ALCOTT HIGH DUTY TURBINE.

High Efficiency. Easy Working Gate. Steady Motion. Simple, Durable.

TAYLOR SLEEVE GATE TURBINE.

The largest power ever obtained from a Wheel of the same diameter. Send for Catalogues



RISDON-ALCOTT TURBINE CO., Sole Manufacturers, Mount Holly, N. J., U. S. A.

YOU CAN USE THE AEROPHOR PAPER DAMPENER ON ALL YOUR MACHINES.

It will Improve the Finish and Quality of News, Book, and Manilla.

AMERICAN MOISTENING COMPANY, Boston, Mass.

Write for particulars.

Office, Equitable Building, 130 Devonshire Street.



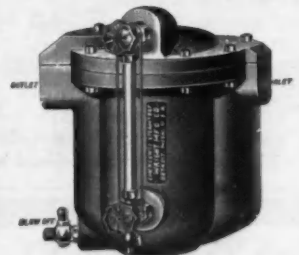
What a Carnegie Steel Company Master Mechanic Says About

The Wright Emergency Steam Trap.

CARNEGIE STEEL COMPANY, DUQUESNE STEEL WORKS AND BLAST FURNACES, DUQUESNE, PA., April 5, 1902.

SUBJECT: Performance of the Wright Emergency Steam Trap.

This is to certify that after a thorough trial of the Wright Emergency Steam Trap at a place where exceptionally high duty is demanded of same, we have found it to perform its work in an absolutely faultless manner; and can, therefore, recommend it in the highest terms to all users of steam as an excellent trap. Very truly, E. J. BRYEN, Master Mechanic.



The Wright Emergency Steam Trap is being adopted by leading concerns everywhere, especially where high pressure service is demanded. We guarantee results. Let us send one or more on trial. Circulars mailed on request.

WRIGHT MANUFACTURING CO.

44 SHELBY STREET, Corner Woodbridge Street, DETROIT, MICH.

Pair McCormick Turbines

operating generators in the power plant of the Boston & Montana Consolidated Copper & Silver Mining Co., Great Falls, Mont. Head, 40 feet; 3,800 horse power; weight, 800,000 lbs., irrespective of draught tube, supply pipes or power connections.

THE HEAVIEST PAIR OF TURBINES BUILT.

These Turbines were tested at Holyoke and gave 85 per cent. efficiency.

McCORMICK TURBINES....

S. MORGAN SMITH CO.

Hydraulic Engineers and Machinists, YORK, PA., U. S. A.



A. S. MILLER, Jr., Treasurer.



NO. 222. NEW AUTOMATIC KNIFE GRINDER.

AUTOMATIC. SIMPLE.

FULL DETAILS ON APPLICATION.

WOOD WORKING MACHINERY FOR GENERAL SHOP WORK.

S. A. WOODS MACHINE CO.

ESTABLISHED 1854. SO. BOSTON, MASS.

R. H. BROWN, Chief Engineer.

Eastern Bridge & Structural Co.

Engineers, Contractors and Manufacturers of

Steel Structural Work of Every Description.

Steel and Iron Framework for Buildings, Roofs, Railroad and Highway Bridges. Plans and estimates furnished. Write us.

55 Front Street, WORCESTER, MASS.

Works beside tracks of Pitchburg and B. & M. Railroads, Worcester, Mass.

Boston Office, 85 Water Street.

BRITISH TRADE TOPICS.

Paper and Pulp Markets Dull—Yearly Showing of Brunner, Mond & Co.—The Castner-Kellner Alkali Company—Canadian Pulp on the Continent.

[SPECIAL CORRESPONDENCE OF THE PAPER TRADE JOURNAL.]

LONDON, May 22, 1902.—The paper market is quiet, entirely too quiet to suit manufacturers and dealers. Pulp are in the same condition also, even the low prices for sulphite and soda being no stimulus whatever to trade.

Brunner, Mond & Co. issued their annual report and balance sheet last week. It set forth that the profit and loss account shows a balance on the working of the year ended March 31 last of £480,431, which, with the amount of £36,930 brought forward, made a total of £517,361. The directors proposed to deal with this balance as follows: Interim half yearly dividend on the preference shares at 7 per cent. paid on December 6, 1901, £27,249; dividend now to be paid on the preference capital, £27,249; interim half yearly dividend on the ordinary capital at 30 per cent., paid on December 6 last, £163,654; dividend now to be paid on the ordinary capital, making 32½ per cent. for the year, £199,007. The amount to be placed to the suspense account is £60,000, the amount to be written off patents account, £2,500, and the balance to be carried forward, £37,000.

William Mather, M. P., presiding at the annual meeting of the Castner-Kellner Alkali Company, held in London last week, said at last they were out of the woods. The company had been hampered, not to say persecuted, by other competitors, and during the last five years had been in almost a constant state of litigation. It had now got free of these difficulties, and the patents were intact. The prospects of the enterprise were never so good as now, and it only required that bleaching powder should be applied more largely to industrial purposes to place them in a state of great prosperity. The report was adopted.

At a meeting of the employees of the famous Turkey Mill, Maidstone, last week, Colonel Pitt announced that he intended to close the mill on Thursday, Friday and Saturday in coronation week, to pay all the workpeople as if they were at work, and to give besides 2s. 6d. to every man and 2s. to every woman and boy working for the firm. This good news was received by the employees with

great rejoicing, and they tendered their sincere thanks to Colonel Pitt for his great generosity and consideration. There will, however, be no excursion this year.

It is reported here that the Belgo-Canadian Pulp Company, of Shawenegan Falls, Canada, has chartered the steamer Coringa, and will send in a full cargo of pulp to Antwerp. The cargo will be about 2,800 tons of wet and dry mechanical pulp.

BRITON.

William Reardon, Paper Maker.

William Reardon, who has just been promoted by the American Writing Paper Company, as recently announced in THE PAPER TRADE JOURNAL, and who has a well founded reputation as a thorough master of the art of paper making, was born on August 22, 1845, in the village of Cathcart, Renfrewshire, Scotland. He came from a family of paper makers on both sides, and when a young boy spent his play days in the old board mill of the Lindsays, in old Cathcart, well known to many paper makers, on the road to Millholme.

Mr. Reardon served his time in the trade under James Stewart, in the Overton Paper Mill, at Greenock, leaving when a young man to travel in England, where he worked in a good many first-class mills, coming to the United States in 1868. He has been in Holyoke for thirty-three years, starting with the old Hampden Company, and when the Albion Paper Company was formed went to work for it, leaving it to become superintendent of the Bath Paper Mills, Bath, S. C. In 1871 he returned to the Albion Paper Company as superintendent, and has seen the mills grow from the old wooden structures to the present handsome buildings, known all over the country for their special line of papers. Mr. Reardon is not only a good paper maker, but also a genial gentleman, who has a host of friends in the trade, who will wish him the greatest possible success in his new position.

Green Bay Paper and Fibre Company.

MADISON, Wis., June 2, 1902.—The Green Bay Paper and Fibre Company has been incorporated by Peter Reuter, A. L. Reuter and J. C. Locklin. Capital stock, \$100,000. The company will build a 25-ton sulphite mill at Green Bay, Wis.

NEW CORPORATIONS.

Durham Paper Box Company, Durham, N. C.—Capital stock, \$15,000.

Bellville Novelty Company, Bellville, Ohio.—To manufacture advertising novelties. Capital stock, \$10,000.

Huron Pulp Company, New York—Capital stock, \$1,500. Directors, F. E. Edwards, G. E. Johnson and R. J. Phair, New York.

Walsh Paper Company, Newark, N. J.; office, 15 Exchange place, Jersey City, N. J.—H. O. Coughlan, Louis B. Dailey and Kenneth K. McLaren directors.

Adams & Grace Company, Blue Point, N. Y.—To manufacture stationery. Capital stock, \$100,000. Directors: Daniel Adams, Jr., F. J. Grace and J. D. Fearhake, New York.

Freeman Stationery and Printing Company, Cincinnati, Ohio.—Capital stock, \$10,000. Incorporators: F. W. Freeman, H. M. Freeman, Albert C. Morgan, S. H. Freeman and Gertrude M. Irvin.

Rumford Lumber Company, Portland, Me.—To manufacture paper, pulp, lumber, &c. Capital stock, \$500,000. President, Henry P. Cox, and treasurer, Frederick M. Harmon, both of Portland, Me.

Alpha Box Company, Portland, Me.—To manufacture boxes, tags and labels. Capital stock, \$100,000. President, Frederick H. French, of Dedham, Mass.; treasurer, Charles H. Tolman, of Portland.

Kemo Paper Company, Kittery, Me.—Capital stock, \$250,000. Promoters, George M. Brush, Raymond Apollonis and M. A. Powers, of Boston; Charles T. Seaverns and Jerome W. Doten, Springfield.

A. E. Martell Company, Augusta, Me.—To make stationery. Capital stock, \$50,000. Promoters, Arthur E. Martell, Newton Highlands; Theodore H. Martell, Newtonville; Edward P. Small, Boston; F. L. Dutton, E. F. Whittum, C. S. Andrews, Augusta.

Unique Folding Box Company, principal office, 2 Washington street, Morristown, N. J.—To manufacture boxes. Capital stock, \$25,000. Incorporators: Anna A. Reynolds, Alvah L. Reynolds, Isaac N. Van De Water, Madison; L. E. Buckbee, Newark, and Wm. Jeffreys, East Orange.

A PUBLIC MAN

once remarked that political platforms were made to run on and not to stand on. Same way with some advertisements. But when we say

CROSS OIL FILTER

will cut down your oil bills at least 50 per cent., we stand back of our promise—not one cent of money changes hands until a thirty days' trial of the Filter has convinced you that it is the best that money can buy.



Adopted by nine governments, and used in twenty-eight different countries. Can we send one?

THE BURT MFG. CO.
Akron, Ohio, U. S. A.

Also to be had from all companies, engine builders and power contractors.

PATENTS

procured promptly and properly in all countries. Also trade marks and copyrights. DAVIS & DAVIS, Attorneys-at-Law, opposite Patent Office, Washington, D. C.; C. D. 7 St. Paul Building, New York, N. Y.

Caldwell Tanks

“THE KNOWING HOW”

is the principal factor in building Tanks or anything else. The

CALDWELL TANKS

are made by skilled mechanics with many years' experience. And only first quality materials are used. That is why they are always satisfactory. Ask your friends or send for Catalogue and Price List.

W. E. CALDWELL CO.,
LOUISVILLE, KY.

The W. S. Tyler
Company

CLEVELAND, OHIO.

MANUFACTURERS OF
**FOURDRINIER
WIRES.....**

Cylinder Faces and Washer Wires.

Tanks of Cypress or Yellow Pine.
Heavy Paper Mill Work
A SPECIALTY.



Our Air-Dried Cypress is remarkable for its great durability. We handle Cypress and Yellow Pine from the stump, and have twenty million feet seasoning.

OUR TANK FACTORY IS COMPLETE.
THE A. T. STEARNS LUMBER COMPANY, BOSTON.

The Belgo-Canadian Pulp Co.

Mills at SHAWENEGAN, Province of Quebec, Canada.

Offices at BRUSSELS, 16 Avenue de l'Astronomie.

Managing Director, EDMOND DE VYLDER, Esquire.

Annual Production, 45,000 Tons.

Of Which - - 30,000 Tons Wet (50 per cent.)

And - - - 15,000 Tons Dry.

Mechanical Pulp of first quality warm process.

Sole Sellers:

LAMMLETH & CORNET, } PARIS: 7 Boulevard St. Denis.
ANTWERP: 24-26 Rue Leys.

LINK-BELT ELEVATORS,
CONVEYORS

Modern Methods

for the automatic and expeditious handling of things. Whether the parcels be small or large, light or heavy, or the material in bulk, wet or dry, our business is to provide approved appliances for its transportation.

Link-Belt Engineering Co.,
Nictown, Phila.
New York: 45 Dey Street.
Pittsburg: Park Building.
Chicago: Link-Belt Machinery Co.

Capacity 
150
Tons Daily.

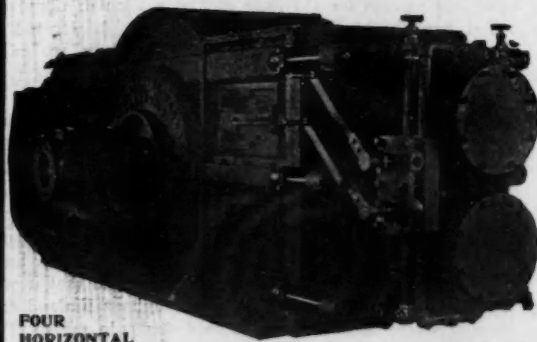
The largest clay mines and washing plant in the world. Producing the finest grade of clay made in the United States. Rapidly taking the place of English china clay.

Samples furnished upon application. Prompt shipments of orders guaranteed. Contracts made for specified deliveries to suit buyers.

The Philadelphia Clay Manufacturing Co.
47-49 No. Second St., PHILADELPHIA, PA.

Address all communications to M. W. PHILLIPS, Pres. and Gen. Mgr.

LATEST AND GREATEST.



The New Century
PULP GRINDER

weighing 18 tons, is now in successful operation, and is daily demonstrating its ability to make more pulp

THAN ANY OTHER GRINDER

FOUR HORIZONTAL POCKETS.

PATENTED DECEMBER 2, 1901.

WRITE FOR FULL PARTICULARS.

THE DILTS MACHINE WORKS, FULTON, N. Y.

THE HELLER & MERZ CO.

New York, Chicago, Philadelphia, Boston, Newark, N. J.,

MANUFACTURERS OF

Aniline Colors and
Alum-Proof Ultramarine
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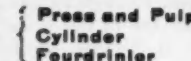
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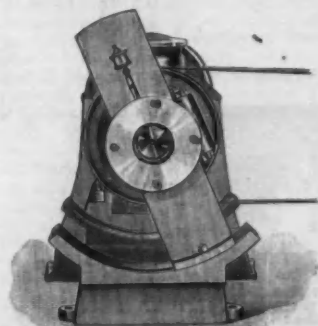
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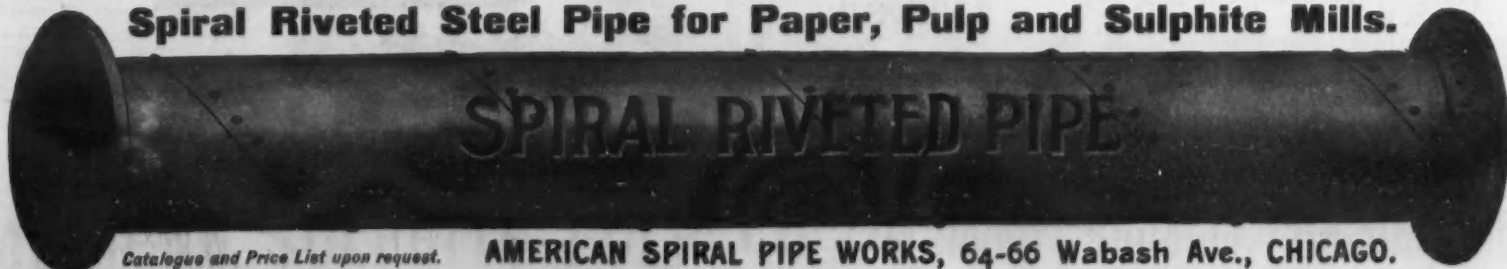
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make it possible to build paper mills where a limited supply of water is available. The production of such mills will be greater per ton of raw stock than in mills where great volumes of water constantly run into sewers and pollute streams. Less power is required with this system, and cost of plant reduced. We guarantee results as represented. Our Triplex Pumps are high grade, with prices reasonable. Send for complete Catalogue No. 21.

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PATENTS OF THE WEEK.

Paper Stop—Paper Bag Delivery Device—Lace Paper Dolly—Making Paper Box Blanks—Device for Supporting and Delivering Paper for Wrapping, Etc.

Harold F. Dunbar, of Turners Falls, Mass., has been granted patent No. 701,175 on improvements in stops for paper or other material while winding on a drum, the object being to produce a simple stop to prevent the paper from sliding endwise of the drum or from sliding one layer upon another, and, further, to so arrange the stop that it may be readily adjusted to the increasing size of the paper roll while the winding drum is revolving.

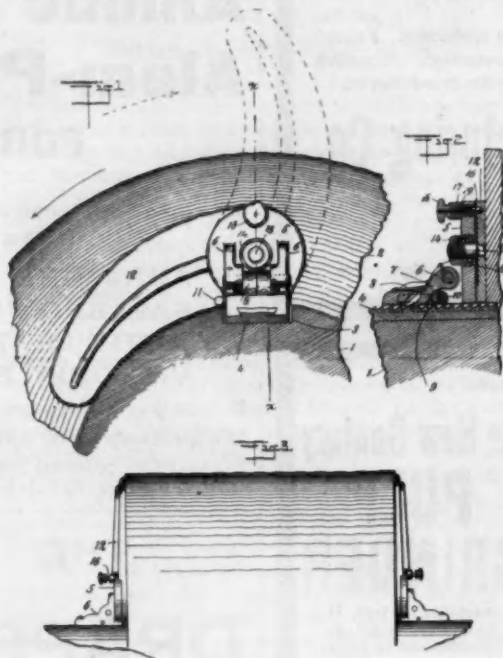
Fig. 1 is a side view of a paper stop embodying the invention. Fig. 2 is a section on the line *x x* of Fig. 1. Fig. 3 is a front view showing a stop at each end of the paper roll.

Referring to the drawings, 1 designates a winding drum upon which the paper 2 or other material is wound. Seated in a channel 3, formed in the drum, is a rack 4, having ratchet shaped teeth, and movable on the rack is a carriage consisting of an upright plate 5 and side plates 6. The sides of the rack are undercut, and the bottom of the carriage has an inwardly extending portion to engage said undercuts, as clearly shown in Fig. 1.

A dog 7 is mounted on a bar having bearings in the side plates 6 and is held in yielding engagement with the rack 4 by means of a spring 8. A shaft 9 has bearing in the side plates 6, and on this shaft is a cam 10, adapted to engage with the under side of the dog for the purpose of raising the same out of contact with the rack. One end of the shaft 9 has a handle 11 for convenience in turning the same.

Mounted to swing on the plate 5 is a stop arm 12. This stop arm is longitudinally curved, so that when folded downward, as indicated in full lines in Fig. 1, its edge will bear closely upon the winding drum. A pivot pin 13, attached to the stop arm 12, passes through an opening in the plate 5, and on the projected end of this pivot pin, which is screw threaded, is a nut 14, between which and the plate 5 is arranged a spring 15, which will hold the arm 12 friction tight against the plate. When the plate is moved downward, as indicated in Fig. 1, and especially as the size of the roll is lessened by unwinding, it is desirable to lock said arm to prevent its being thrown outward

by centrifugal action, and therefore prevent it from striking or coming in contact with an attendant that may be near the winding drum. This locking device consists of a pin 16, passing through a sleeve 17, arranged through the plate 5, and on the outer end of the pin is a finger piece 18. A spring 19 surrounds the pin within the sleeve, one end of this spring bearing against an enlarged por-



PAPER STOP.

tion of the pin and the other end bearing against the outer end wall of the sleeve, all as clearly shown in Fig. 2.

In operation the stops are to be moved along the drum and engage against the ends of the paper or other material being wound thereon. As the size of the roll increases on the drum the stop arms are to be swung outward relatively to the drum, which may be done while the drum is in rotation. The dotted lines in Fig. 1 show

the stop arm in its extended position. In unwinding, the stop arms will be gradually moved downward until they finally engage against the drum, where they will become locked by the means above described. When it is desired to increase the distance between the two stops, they may be readily drawn outward on the racks after lifting the dogs from engagement from the racks.

No. 700,722. Paper Bag Delivery Device.—Daniel Appel, Cleveland, Ohio, assignor to the Union Paper Bag Machine Company, Philadelphia, Pa.

No. 700,771. Lace Paper Dolly.—John Hess, Milwaukee, Wis.

No. 700,807. Machine for Making Paper Box Blanks.—Charles H. Palmer and John W. Denmead, Akron, Ohio.

Nos. 700,815 and 700,816. Device for Supporting and Delivering Paper for Wrapping or Binding Purposes.—Robert H. Piper, Chelsea, Mass., assignor by direct and mesne assignments to National Specialty Manufacturing Company, Jersey City, N. J.

American Grinders for Finnish Pulp Mill.

The Bagley & Sewall Company, Watertown, N. Y., is shipping this week two of its large pulp grinders with other equipments for the pulp mill of a Finnish Company called Pankakoski Tras Liperi, which is to be located in the North of Finland, near the Russia boundary, 100 miles North of Joensuu, the terminal station of the railroad running north from Wiborg on the Baltic Sea. This mill will be the pulp mill farthest north in the world. It is surrounded by virgin spruce forests and has immense water power. The summer season is rather short, but the winter has advantages, as the pulp makers team their pulp on sleds a great distance. This is the first pulp machinery that the Bagley & Sewall Company has sent into Finland, and is the outcome of a trip there last year by S. D. Lansing, secretary of the company, and it is hoped that it will be the beginning of good business throughout Finland and Russia, where there is a large field for pulp mills. The Finns are careful business men, are not enthusiastic, and deliberate carefully on any expenditure of money, but when they find their interests are well taken care of by any given manufacturer they return to him with further orders without hesitation, and are not easily induced to buy elsewhere. The shipment will go by the Scandinavian-American Line to Wiborg.



Franklin H. Kalbfleisch, President. R. E. Clemens, Vice-President. H. Beckman, Treasurer.

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AMERICAN SULPHITE PULP COMPANY,

SOLE OWNERS OF THE RUSSELL CEMENT PATENT LINING FOR SULPHITE DIGESTERS.

The only absolute protection to the shell of the digester, and covers every description of continuous acid-proof lining in use; it is easily and cheaply applied, and when applied to a well-constructed digester, it will with proper care last indefinitely.

More than fifty digesters have been licensed by us to use this lining; many of them have been in constant use from five to eight years, and are in perfect condition now, which cannot be said of any other lining in use.

The validity of the patent having been sustained by the United States Circuit Court of Appeals of the First District, all persons using the same without license from us will be prosecuted. The substituting of a substantial lining of sheet lead between the shell of the digester and the cement and brick facing is a very dangerous makeshift, as the lead will in time deteriorate and crack, and allow the acid to get through to the shell and destroy it; this has been absolutely proved in more than one instance. We have recently removed the linings from digesters having a lead backing, and relined the same with the Russell lining; the condition of the shell when the lead lining was removed clearly shows the danger of using lead.

The International Paper Company has taken out licenses for all its mills.

Manufacturers of sulphite pulp and those intending to build sulphite mills should examine into the merits of the Russell cement lining and the absolute strength and breadth of its patent before negotiating for inferior and infringing linings.

WE REFER YOU TO THE FOLLOWING PARTIES AND LETTERS.

INTERNATIONAL PAPER CO., Lawrence Mill, Lawrence, Mass.

MARINETTE & MENOMINEE PAPER CO., Marinette, Wis.

RICHARDS PAPER CO., South Gardiner, Me.

COMBINED LOCKS PAPER CO., Appleton, Wis.

INTERNATIONAL PAPER CO., Fall Mountain Mill, Bellows Falls, Vt.

MT. TOM SULPHITE PULP CO., Mt. Tom, Mass.

PIEDMONT PULP & PAPER CO., Piedmont, W. Va.

WILLAMETTE PULP & PAPER CO., Oregon City, Ore.

ABSTRACT FROM LETTER OF WILLAMETTE PULP AND PAPER COMPANY.

SAN FRANCISCO, August 18, 1894.

American Sulphite Pulp Company:

How are your digesters working now? We repoint ours about once in three months, inspect each digester once in two weeks, and are very well pleased with their seeming durability and their operation in every way, but at the same time, after our experience with bronze digesters, we are naturally a little apprehensive, and if there is any point of danger that has come up in your experience that has not yet revealed itself to us, we would esteem it a favor if you would put us on our guard against any such difficulty. Our digesters, as you know, are made upright, of the inverted-champagne-bottle type with hemispherical dome, and the circulation of the liquor in them is well-nigh perfect. We blow off at any pressure that happens and we have yet to see the slightest defect by reason of said blowing off. About three months ago we tapped the lower space of our digester and found the lining at the tap-holes perfectly clean and dry, and unless something unforeseen occurs to change our opinion we shall continue to feel pleased that we decided to use your lining. We have no objection to your using our opinion in converting any "Doubting Thomas" to whom you may wish to sell the right to use the lining.

Yours truly,
WILLAMETTE PULP AND PAPER COMPANY.
By W. Pierce Johnson, General Manager.

WILLAMETTE PULP AND PAPER COMPANY.
SAN FRANCISCO, Cal., U. S. A., September 20, 1897.

American Sulphite Pulp Company, 85 Water St., Boston, Mass.:

Gentlemen:—Answering your favor of September 24, would say that our linings are working quite satisfactorily. We have had some few slight leaks due to the pointing becoming detached, but have had no difficulty in repairing the leaks, and they have been very infrequent, and we regard the lining as a success.

Yours truly,
WM. PIERCE JOHNSON, Vice-President.

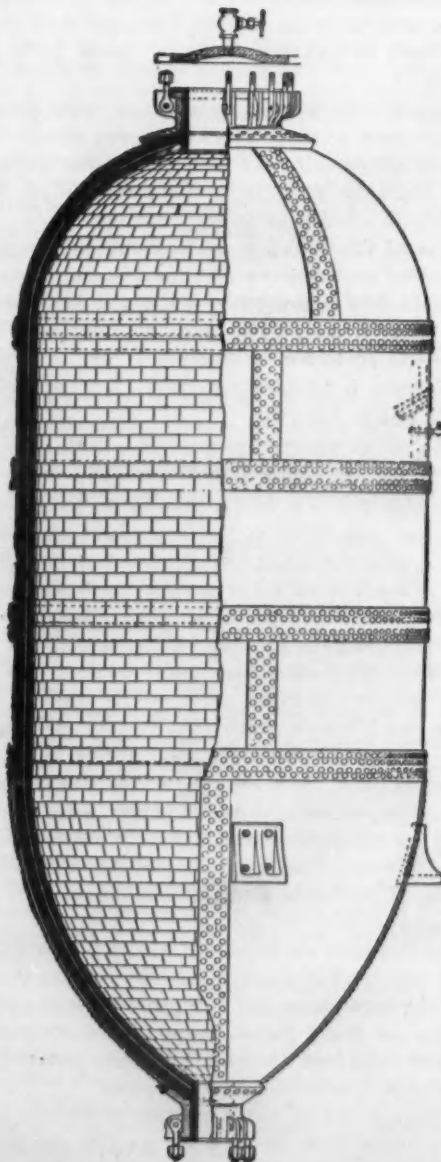
RUSSELL PAPER COMPANY.

LAWRENCE, Mass., August 15, 1899.

G. W. Russell, Pres. American Sulphite Pulp Co., Boston, Mass.:

Dear Sir:—In reply to your letter, I beg to say that the Russell Cement Lining has been in constant use in this mill under my superintendence for nearly 10 years. Both the linings and digesters are in excellent condition; neither have given us any trouble since the linings were put in. Yours respectfully,

FRED'K M. LIBBEY, Foreman,
Russell Paper Company, Sulphite Mill.



MARINETTE AND MENOMINEE PAPER COMPANY.

MARINETTE, Wis., July 24, 1899.

American Sulphite Pulp Company, Boston, Mass.:

Gentlemen:—Yours of July 20 received, and in answer will state that up to the present time the lining Mr. Marston put on the last two digesters has been very satisfactory and has given us no trouble whatever. Yours very truly,

MARINETTE AND MENOMINEE PAPER COMPANY.

RICHARDS PAPER COMPANY.

SOUTH GARDINER, Me., August 16, 1899.

Mr. George W. Russell, President, Tremont Building, Boston:

Dear Sir:—We have had the Russell digester linings in use for nearly ten years, and believe them to be the best in the market. Our digesters and linings are in excellent condition.

Yours truly,
HENRY RICHARDS, Agent.

WEST VIRGINIA PULP AND PAPER COMPANY.

NEW YORK, August 12, 1899.

G. W. Russell, Esq., Pres. American Sulphite Pulp Co., Boston, Mass.:

Dear Sir:—Replying to your favor of the 11th inst., it gives us pleasure to say that the Russell lining we have in use in all our digesters is giving every satisfaction, and we do not see how it can be improved upon. We do not see that there is any necessity for any lining next the shell other than the cement lining of your process.

Very truly yours,
WEST VIRGINIA PULP AND PAPER COMPANY,
JOHN G. LUKE,
Per A. K. L.

THE RIORDON PAPER MILLS, LIMITED.

MERRITTON, Ont., August 15, 1899.

American Sulphite Company, Boston, Mass.:

Gentlemen:—In reference to success of a cement and talc lining for digesters, I may say that we have used it for some years with entire satisfaction. It has always seemed to me that using a lead backing is a rather useless and perhaps dangerous practice.

Yours truly,
C. RIORDON.

AMERICAN SULPHITE PULP CO., Tremont Building, Boston, Mass.

The Paper Trade Journal.

ESTABLISHED 1872.

DEVOTED TO THE INTERESTS OF

THE AMERICAN PAPER TRADE.

PUBLISHED EVERY THURSDAY

BY THE

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 Boston, Mass.

Western New England News Office—OSCAR C. FERRY,
 Holyoke, Mass.

Southwestern Office—R. W. BROOKS, 413 Security Building,
 St. Louis, Mo.

London Office—S. C. PHILLIPS & Co., 47 Cannon St.,
 London, E. C., England.

THE PAPER TRADE JOURNAL is the pioneer publication in its field and has for many years been the recognized Organ of the American Paper Trade. As a medium for reaching the trade in all its branches it is unapproached.

NEW YORK AND CHICAGO, THURSDAY, JUNE 5, 1902.

Western Office of the "Paper Trade Journal."

Subscribers and advertisers in the West should bear in mind that the Western office of THE PAPER TRADE JOURNAL is located at 936 Monadnock Building, Chicago. It is in charge of Mr. Evan Johnson, who will receive advertising and subscription orders and news items for the company's publications, all of which are kept on file. Visiting members of the trade are invited to make the office their headquarters.

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Invading Foreign Countries.

Recently there has been heard a great deal about the American commercial "invasion" of foreign countries. The British and German papers have been full of much talk about it, what it was, what it was doing, and how it was to be stopped.

Notwithstanding all this the "invasion" still goes on. The "invaders" have not yet been driven out. In fact they have had additions to their ranks. If the despatches be true a group of capitalists, who have already built three mills in this country to manufacture patent coated board out of city waste, intend to go across the water and establish similar mills at Liverpool, Paris and Berlin, intending to use city paper waste for the raw material out of which to make paper. If this sort of thing keeps up these gentlemen will be buying up British, French and German mills, and turning them into paper packing houses.

Repairs and Improvements.

This is certainly the season of repair and improvement in the paper industry. Mills that have served their time are being dismantled and abandoned, the realty being sold into other lines. Mills that have not yet outlived their usefulness are being repaired and put in prime condition. Old, slow speed machines are being replaced by wider, speedier ones of modern type, and the beating and finishing departments are being brought up equal to the machine equipment. In the way of new construction there is much going on, and a year from now the result of it will be in the market fighting for and finding a place.

Each year there is a regular increase in product, owing to the natural progress in the methods of operating, &c., without considering the increase that comes from the installation of new machines in old plants and the construction of entirely new mills. That product seems to be absorbed by the consumptive demand, and indeed for some time that demand has been calling for supplies at a little more rapid rate than manufacturers could supply. The result is depletion of stocks greatly below the normal.

This year there are apparently as many paper and pulp mills projected as there usually are at this season. Some of them will possibly reach no more than the "projected" stage, others may get as far as Wall Street, and yet others may become actual paper making establishments.

All in all, those who plan and build and equip paper and pulp mills have a deal of work ahead of them already laid out, while those who will own and operate them have before them yet more trying work for their hands and brains—the production of dividends as well as of paper. The industry is spreading out rapidly, and each year its growth gathers strength.

The New Fibre.

The fibre that is to be the successor or the successful competitor with wood for the favor of the paper maker is being diligently sought for. It has not yet been found, or if it has it is not yet in practical work. That it will be one that is already on the very long list of those that have been treated in the hope of proving to be the long sought for is not doubted. Indeed that list is so long as to almost preclude the finding of one entirely new.

The search keeps up incessantly. For some time bagasse has been having considerable attention paid to it. It is not a new stock. It is not even new as a paper maker's fibre. The working of it is well known, and it is recognized that for coarse papers, such as wrappings, it is an available stock. That it can be used successfully in the making of any higher grades of paper is yet to be demonstrated.

Flax fibre is an old friend, and is none the less welcome when introduced by a newly organized company that will take the straw from the Northwestern fields, treat it roughly in North Dakota, complete the treatment at Niagara Falls, and present to the paper maker a high class stock for the finer grades of paper.

Cottonseed, too, is having its quota of attention, and it seems beyond doubt that in a few years we will be using this stock to a very considerable extent.

Out in California a discoverer by the name of Anthony calls the attention of the world to ocean kelp as a paper

making fibre. Practical men are now working with this stock, and the results of their work will appear in the not far distant future.

And so it goes. The search never ceases. Meantime wood is holding its own. Those who are the largest users of it do not expect to see it displaced, nor do they expect that it will have a successful competitor. It has done its work well. It is doing it better every day, and the fibre that can divide honors with it will have to be available, abundant, cheap and near at hand.

The Wisconsin mills making "flats" are having a very large business. In fact they have been having an extraordinary demand for their goods for some time. In endeavoring to explain the reason for this, one man advances the theory that it is owing to the fact that people do not want to buy a combination if they can possibly make their purchases of an independent concern. That theory seems to be all right until one finds that the "combination" mills making similar lines of goods are also very busy and have all the orders that they can fill on time. The theory may be well founded, but in this particular instance the evidence is against it. The fact is people are buying these goods because they need them, and not for any sentimental reason.

The export movement in paper this week was only fair. The shipments from New York aggregated \$61,250, and a noteworthy feature was that no goods were forwarded to Australia. Equally noteworthy was the fact that the shipments to the Philippine Islands amounted to \$18,013. Evidently our new possessions are doing quite a business in American paper. Among the other shipments were the following: To British Africa, \$2,527; Cuba, \$3,889; Hamburg, \$1,792; Japan, \$7,024; Liverpool, \$4,759; London, \$5,976; Mexico, \$2,503; Peru, \$2,109; St. Petersburg, \$1,475; Rotterdam, \$2,686.

The work of the German Public Paper Testing Office has doubled since the office was established in 1894, so far as the number of papers submitted for test are concerned. The percentage of samples rejected as being below normal has also steadily increased, but whether this is due to more rigid enforcement of regulations or to a lowering of quality of paper does not appear. The work that the office is doing is not only interesting but of substantial practical benefit.

Up to this writing the coal strike has not interfered with the operations of paper and pulp mills. Should it continue long and result in a general coal famine, affecting both anthracite and bituminous grades, the chances are that it would cripple some paper and pulp establishments, if it did not shut them down altogether. The mills, while not able to put in supplies for a long season, have been able to obtain enough fuel to keep them going. Just at present fuel is not near as plentiful as are orders.

There seems to be an abundance of "strikes" in the paper trade nowadays. This is regrettable, but it is noteworthy that they are being settled in short order. Recent conferences between employers and employees are evidently producing good results, each side being willing to concede something to the other. This is, indeed, a matter for congratulation, and we trust that with further progress in the same direction strikes will soon become obsolete.

On page 712 will be found an article on "Mordants," by H. Romanoff. It deals with the subject in a thoroughly practical way, and is the sort of an article that one does well to preserve for reference in the daily work of the paper mill.

It was only a few years ago that when a man made a few hundred bags a day by hand he was a full fledged paper bag manufacturer. Now when one can make 10,000,000 a day—why, he is only beginning to get into the business.

According to our Miami Valley correspondent, the folding box combination is not yet an assured fact. A Dayton company believes in its own business, and apparently desires to continue it. Whether it will is not yet a settled fact.

Just as everybody else is getting ready to cry "low water" Wisconsin comes along with a story that she has more water than she needs, and that she would really be obliged if somebody would relieve her of a portion of it. The West always was a bit contrary.

A New York mill is putting in a penstock that is somewhat out of the ordinary. In fact, it is claimed that it is the first of its kind. It is built of cement on a steel frame, will be 7½ feet in diameter inside and will be a mile in length. It will cost \$45,000.

TRADE PERSONALS.

BARNEY.—W. C. Barney, of the B. F. Goodrich Company, which operates the Akron Rubber Works at Akron, Ohio, was in New York city late last week. Mr. Barney looks after the company's business with the paper mills.

BLANKS.—William L. Blanks, of the firm of Blanks & Robinson, wholesale paper dealers, Richmond, Va., was summoned home from Atlanta by telegram on May 29 on account of the critical illness of his mother, Mrs. James B. Blanks, who resides in Petersburg. Mrs. Blanks was paralyzed at 1 p. m. on the 29th and was not expected to live, but at present she has somewhat improved. "Billy" Blanks, as he is familiarly called, was on a trip through the South in the interest of the firm of which he is senior member, and the announcement of his mother's illness on the morning of his arrival in Atlanta was the sad interruption of a successful business trip.

BURNETT.—C. M. Burnett, of the Keith Paper Company, Turners Falls, Mass., visited the New York market last week.

BURNS.—R. W. Burns, of the Geo. H. Friend Paper and Tablet Company, West Carrollton, Ohio, delivered the Memorial Day address in that town, and it is said to have been the most eloquent eulogy over the departed heroes of the Civil War ever delivered in the Miami Valley.

BUSH.—E. A. Bush, of the Old Berkshire Mills, Dalton, Mass., was among the New England delegation seen in New York city last week.

CANTINE.—Martin Cantine, of the Martin Cantine Company, Saugerties, N. Y., called on his New York trade this week.

CARPENTER.—F. P. Carpenter, treasurer of the Amoskeag Paper Mills Company, Manchester, N. H., was in Boston last week.

CARTER.—J. Richard Carter, of Carter, Rice & Co., Boston, president of the Associated Board of Trade, was among the distinguished guests at the banquet given to the Rochambeau visitors at Hotel Somerset, Boston, last Saturday evening.

CLARK.—John E. Clark, manager of the George R. Dickinson Paper Company Division of the American Writing Paper Company, was in Boston last week.

COLLINS.—P. V. Collins, the president of the Northwestern Agriculturist of Minneapolis, delivered the address on Memorial night in the Victoria Theatre, Dayton, Ohio. Mr. Collins is a former Dayton man, and has won the distinction of giving the paper maker more work than any other farm journal man in the country, his edition exceeding 60,000 semi-monthly.

COLTON.—J. E. Colton, manager of the Berkshire Type-writer Paper Company, Pittsfield, Mass., accompanied by his wife, spent last week in Boston.

CROCKER.—C. A. Crocker, of Springfield, Mass., of the Crocker Division of the American Writing Paper Company, was in New York city for a short stay last week.

DAY.—W. O. Day, of the United States Envelope Company, was registered in New York last week.

EVERETT.—W. E. Everett, superintendent of the International Paper Company's Winnepesaukee Mill at Franklin, N. H., was a visitor in Boston last week.

GERALD.—John C. Gerald, general manager of the Howland Pulp Company, Howland, Me., was in Boston a few days last week.

GILBERT.—W. M. Gilbert, of Menasha, accompanied by Ed. Wroe, of Chicago, and William Reed, of Menasha, returned last week from a fishing trip to Pike Lake. Mr. Gilbert caught a muskellunge weighing 38 pounds, which was exhibited in one of the railroad offices in Chicago as a noteworthy example of the sporting possibilities on its line, and attracted much attention.

GRAHAM.—G. H. Graham, of the H. Waterbury & Sons Company, Oriskany, N. Y., was in New York city last week for a short stay.

GREINER.—W. C. Greiner, of D. L. Ward & Co., Philadelphia, Pa., made the rounds of the New York trade last week.

HARDMAN.—R. B. Hardman, of Thomas Hardman & Sons, Limited, manufacturers of paper makers' felts, Bury, England, visited the New York trade last week.

JEFFERS.—W. W. S. Jeffers, Ticonderoga, N. Y., of the Lake George Mill of the International Paper Company, visited the New York headquarters of that company last week.

JUDD.—A. T. Judd, of the Judd Paper Company, Holyoke, Mass., made a number of calls in the New York trade last week.

JUDD.—W. D. Judd, of the Carew Manufacturing Company, South Hadley Falls, Mass., was in Boston last week.

KEYES.—George T. Keyes, of the Nashua River Paper Company, East Pepperell, Mass., made his usual rounds among his New York city customers last week.

MACOMBER.—F. Macomber, of Crocker, Burbank & Co., Fitchburg, Mass., visited the New York trade last week.

McGOVERN.—Frank J. McGovern, representing F. C. Huyck & Sons, manufacturers of the Kenwood felts and jackets, Albany, N. Y., spent a few days in Philadelphia during the week. He took a satisfactory number of orders.

MEAD.—Col. H. E. Mead was in command of the various military companies of the Third Regiment, Ohio National Guard, which appeared in the imposing Memorial Day pageant in Dayton, Ohio. The colonel on his dashing charger was the cynosure of all eyes.

MILLS.—Sympathy has been extended by the friends of W. M. Mills, former superintendent and vice-president of the Dayton Globe Iron Works, and more recently connected with a water power plant in Sault Ste. Marie, over the shockingly sudden death of his wife. Burial was made in Dayton, Ohio.

MITCHELL.—J. B. Mitchell, of A. G. Elliot & Co., has returned to Philadelphia after a three weeks' trip to the Texas branch house at Dallas. Mr. Mitchell says that the Texas house is growing rapidly.

MUGGETT.—Fred Muggett, a former paper mill man, of Middletown, Ohio, and Wabash, Ind., has sold his handsome home in the former place and has gone to Cleveland, where he entered the paper business. Middletown loses a worthy citizen and a conservative business man who will unquestionably make a success of his venture.

NEWTON.—Daniel H. Newton, a director of the Chemical Paper Company, Holyoke, Mass., has returned from a somewhat extended trip to California for the benefit of his health.

NEWTON.—J. L. Newton, of the Newton Falls Paper Company, Newton Falls, N. Y., was among the many board manufacturers seen in New York last week.

NEWTON.—James S. Newton, of the Chemical Paper Company, Holyoke, Mass., will leave soon for a European trip.

OUTTERSON.—J. A. Outterson, of the Carthage Tissue Paper Mills, Carthage, N. Y., made a number of calls in the New York trade last week.

PERKINS.—George F. Perkins, of Perkins, Goodwin & Co., New York, had a rather unpleasant experience at his home in Jersey City on Monday night of this week. Detecting the odor of escaping gas, Mr. Perkins located the leak in the cellar. Having aired out that part of his residence he started to find the defect that caused the trouble. In doing so Mr. Perkins, armed with a light, ventured too near some creosote and a miniature Mont Pelée did a regulation volcanic stunt, much to the amazement of the head of the house of P. G. & Co. That worthy gentleman, however, escaped unscathed and reported for duty on Duane street the following morning. Since the accident his business partners have been lecturing Mr. Perkins on the evil temptations that beset a man fully insured against fire.

POPE.—E. J. Pope, of Holyoke, Mass., was in Boston the early part of this week.

SCHOFIELD.—H. B. Schofield, of Schofield Brothers, paper jobbers, of St. John, N. B., spent a few days of last week in Boston, he being accompanied by his wife. Mr. and Mrs. Schofield have been enjoying a three weeks' holiday trip, visiting some of the principal paper mill cities of New England.

SHERMAN.—George C. Sherman, of the St. Regis Paper Company, Watertown, N. Y., visited the New York market again last week.

SMITH.—C. E. Smith, of the S. Morgan Smith Company, York, Pa., visited New York city last week.

SOUTHWORTH.—C. H. Southworth, of the Carew Manufacturing Company, South Hadley Falls, Mass., made his customary rounds of the New York trade last week.

STERN.—E. H. Stern, of the Chapin & Gould Paper Company, Russell, Mass., called on his New York trade last week.

STONEBRAKER.—S. D. Stonebraker, of the Antietam Paper Company, Hagerstown, Md., visited the New York market last week.

STRANGE.—Manager Strange, of the Strange Paper Company, of Menasha, Wis., with a party of local gentlemen, have gone to the Pike Lake district this week after muskellunge.

TAGGART.—H. W. Taggart, of the Taggart Brothers Company, Watertown, N. Y., visited the New York market this week.

TRAFFORD.—Edwin H. Trafford, secretary of the Lewy Brothers Company, importer of rags and raw materials, was in Philadelphia during the week. He reported success in taking orders. In his opinion the condition of the Philadelphia market is good.

TRAIN.—Col. Samuel P. Train, of the Train, Smith Company, of Boston, Mass., was at the New York office of his company for a short stay late last week.

OBITUARY.

CHARLES E. MARTIN.

PLATTSBURG, N. Y., May 29, 1902.—Charles E. Martin, one of the most widely known men in Northern New York, died here to-day of appendicitis and peritonitis. He was fifty-three years of age. He was well known as a hotel man, and was an ex-clerk of Clinton County. Mr. Martin was a prominent Mason and Elk, was vice-president and a director of the Plattsburg National Bank, director of the Clinton County Agricultural Society, treasurer of the High Falls Pulp Company, of Chateaugay, N. Y., and vice-president and director of the Lawrence Webster Company, of Malone, N. Y.

PAUL J. SORG.

DAYTON, Ohio, June 2, 1902.—The death of Hon. Paul J. Sorg, at the head of the P. A. Sorg Paper Company, at Middletown, Ohio, and a leading citizen and manufacturer of the Miami Valley, occurred suddenly, as mentioned by telegraph in last week's PAPER TRADE JOURNAL. In his demise the valley lost one of its most aggressive residents, while Middletown mourns the loss of one whose every act was for its advancement, and to whom is attributed largely the growth and prosperity of the town. Mr. Sorg did not live to witness the completion of the wax paper plant, which is being added to the mills in Middletown. Mr. Sorg first became interested in a paper mill a few years ago when the Jacoby Paper Company was in existence, and it was he who rejuvenated these mills after misfortunes had overtaken the company. Placing the business in the hands his son, Paul Arthur Sorg, and a competent mill manager, he decided to extend the enterprise, and in his later life, with the exception of the past two years when he was incapacitated, he devoted as much time to the paper mill as to any of his extensive industries. Mr. Sorg's interests outside of the paper mill were large, and extend from the Atlantic to the Pacific. His wealth is estimated at \$8,000,000, and it is mostly invested in business enterprises. Mr. Sorg was born in Wheeling, W. Va., in 1840, and his parents were natives of Germany. He was reared in poverty and began the manufacture of tobacco with a capital of \$100, his partner, John Auer, investing \$1,000. This was in 1874. In 1876 Capt. Robert Wilson, of Middletown, was taken in as a partner and successive changes brought about independent plants conducted by the gentlemen named. As a result when the trust absorbed the plants a large profit was realized. Previously, however, the tobacco works had made millions of money for their owners. One of the leading enterprises of Middletown, which was practically owned by Mr. Sorg, is the Miami Cycle Company, which also makes automobiles and ordnance projectiles. Mr. Sorg was twice elected to Congress and was forced by declining health to refuse a third term.

He is survived by his widow, Jennie Sorg, and two children, Paul and Ada.

The funeral was held Saturday afternoon from the home of the deceased, and was largely attended. A public meeting was held soon after the announcement of the death of Mr. Sorg, and it was decided that a request be made to close all factories and offices. Business was suspended in all of the paper mills, and the entire little city of Middletown paid tribute to the man whose energy and generosity built it. Addresses in behalf of the Elks at the grave were made by James M. Cox, publisher of the Dayton (Ohio) Daily News, and who was Mr. Sorg's secretary in the National House of Representatives, and Attorney Benjamin Harwitz. Many mill men from Dayton attended the obsequies. Thousands viewed the remains as they lay in state in a bronze casket in the foyer of the opera house, which Mr. Sorg erected in his own memory. The funeral procession was most imposing, the employees of the various industrial establishments alone numbering several thousand. The musical program was elaborate.

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WATERBURY
FELTS AND JACKETS

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H. WATERBURY & SONS CO., Oriskany, N. Y.

Adapted to every grade of paper from the finest to the coarsest.

Our wet machine or pulp felts are unequalled for durability.

For Writing and Ledger Papers

We guarantee a felt equal to anything produced in this country or abroad.

NEWS FROM THE MILLS.

The machinery for the new loft drying department of the Gilbert Paper Company's mill at Menasha, Wis., has arrived and is being set up.

Charles Wence, an employee of the P. A. Sorg Paper Company's mill at Middletown, Ohio, fell from a ladder while oiling machinery and sustained a broken right wrist.

The repairs on the mill and dam of the Ramage Paper Company at Monroe Bridge, Mass., are being pushed rapidly, and the water will be turned into the temporary dam and the old mill started in a few weeks. Mr. Ramage is spending a good deal of time at the plant, and is keeping a close oversight of the work of repairs.

Wm. Morrow, an employee of the G. H. Friend Paper and Tablet Company at West Carrollton, Ohio, fell down an elevator shaft last week and miraculously escaped death. He fell upon a heavy box truck and was severely injured, though no bones were broken. Men who ran to his assistance believed he had been killed, but the company's surgeon soon revived him.

The night watchman at the Champion Coated Paper Company's mill at Hamilton, Ohio, while showing visitors how the mill fire alarm is turned in, pressed the button accidentally and three hose crews responded in double quick time, the memory of the recent half million dollar fire having been revived. The bewildered watchman apologized and congratulations were in order all around.

The large two-machine paper mill known as the Woodland Mill, which was built by the Hartford Manila Company, at Burnside, Conn., and for the past fifteen months owned and operated by the Wickham Manufacturing Company, has been purchased by Case & Marshall, Incorporated, who will operate same in making special decorated box boards and papers. The president of the purchasing company is Raymond S. Case, of the Case Manufacturing Company, of Unionville, Conn. Lewis C. Marshall, of L. C. Marshall & Co., of New York, is secretary and treasurer.

J. R. Driscoll, of Springfield, Mass., has secured the contract for a big penstock to be put in at Ausable Forks, N. Y., for J. & J. Rogers Pulp and Paper Company. This penstock will be the first of its kind, being built of cement on a steel frame. Hitherto the structures of this kind have been of wood and steel. It will be a mile long, 7½

feet in its inside diameter, and will carry a pressure of 40 pounds to the square inch. The whole contract amounts to about \$60,000, and besides the penstock, which will cost \$45,000, will include a fore bay, costing \$10,000, and floors and stock chests some \$5,000.

The report going the rounds of the trade press that the Dickerman Company, of Boston, had bought the Franklin Mill at Norfolk, Mass., is erroneous. It is the old Bush mill at Norfolk that has recently changed hands, the sale of the property, which includes about 175 acres of land and the mills, having been made through the Dickerman Company to the Norfolk Paper Company, of which S. W. Reynolds, of Brookline, Mass., is the treasurer. The company will improve the plant, putting in a new steam engine at once, and will as heretofore run on wrappings and bogus. The Dickerman Company will act as selling agents for the Norfolk Paper Company.

T. T. Waller Now Manager of Sales.

The International Paper Company has announced the election of Tom T. Waller as second vice-president and manager of sales of the company, the change to date from June 1. Mr. Waller has been with the company since its organization, and he has earned his promotion by hard work and close attention to business. His friends feel that his elevation to the important position of second vice-president is a recognition of faithful services rendered, and he is receiving hearty congratulations from all sides.

Mr. McKnight Loses His Case.

DAYTON, Ohio, May 31, 1902.—E. H. McKnight, a paper manufacturer of Middletown, has received notification of the decision of Judge Kumler, of Dayton, in his suit against Peter Schwab, a valley brewer, who joined the paper maker in a traction railway venture, the line extending from Dayton to Troy, Ohio. Before the line was completed a Dayton syndicate built a parallel road, and purchased the Schwab-McKnight roadway and equipment, and the division of the sale price brought forth various legal entanglements. A master commissioner's finding was approved by Judge Kumler, and the decision is against Mr. McKnight, who claimed two-thirds of a certain amount. Previous litigation, however, had been in favor of the paper man, and at that time more money was involved, it is understood. M. V.

Spinning Cellulose Tissues.

A process of spinning cellulose tissues into yarn, the patented invention of Mr. Gustav Türk, manager of the cellulose works at Walsum-on-the-Rhine, and Dr. Carl Kellner, of Vienna, is being applied by the Patentspinnerei Actiengesellschaft at Altdamm, near Stettin, Germany. The process by which it is rendered possible to spin the very short fibres of the pulp is comparatively simple, besides which there is a distinct advantage in the facility with which dyeing can be effected. Cheapness is the chief end attained, however, for the best wood pulp costs in Germany only one-third as much as ordinary cotton, and the method of spinning is less expensive than that by which yarns are usually made. In answer to the objection that the minute length of the cellulose fibres will make the fabric insufficiently strong and that they are too thick, it is contended that for carpets, draperies, furniture covers, &c., coloring, pliability and cheapness are often considerations of greater importance than the strength and thinness of single threads; besides, in the case of wood pulp, the strength of the yarn can easily be increased by submitting it to chemical treatment, and, finally, if such short fibred yarns are used as wefts in combination with cotton, linen or silk threads, as warp, every single fibre will be tied down at the least three times by the warp and, therefore, the cloth will be almost as strong and durable as pure cotton and linen goods.

Dexter Sulphite Pulp and Paper Co.'s Assessment.

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., May 31, 1902.—The Dexter Sulphite Pulp and Paper Company has been having an experience with village assessors, who do not always realize that a big manufacturing plant is a good thing to have in town.

The officials in Dexter, in compiling their village assessment roll for the year 1902, increased the assessment of the Dexter Company very materially. Upon presentation of the company's side of the case on grievance day, the "powers that be" very gracefully receded from their position and placed the assessment of the company at the same figures as that of last year. This is an evidence of good fellowship on the part of the village board of trustees toward a manufacturing corporation in their town which it might be well for boards of trustees in other villages to follow. B.

The Metabetchouan Pulp Company

INCORPORATED BY AN ACT OF THE QUEBEC PARLIAMENT

AUTHORIZED CAPITAL, \$200,000.00

DIVIDED INTO TWO THOUSAND SHARES OF \$100.00 EACH

OFFICERS

A. RACINE, Manufacturer, President, Quebec

F. BLOUIN, Manufacturer..... Vice-President..... Quebec
 F. X. DROLET, Manufacturer..... Director..... Quebec
 J. E. MARTINEAU, Manufacturer... Director..... Quebec
 A. E. VALLERAND, Merchant..... Director..... Quebec
 Chief Engineer: EARNSHAW BRADLEY, Montreal

EMILE MORISSETTE, Contractor..... Director..... Quebec
 EMILE TANGUAY, Architect..... Director..... Quebec
 IGNACE BILODEAU, Contractor..... Director..... Quebec
 O. TREMBLAY, Gentleman..... Director..... St. Jerome
 Attorney: Hon. AMÉDEE ROBITAILLE, K. C., M. P. P., Quebec

Bankers: LA BANQUE NATIONALE, Quebec

This Company, whose property is situated on the Metabetchouan River, in the Lake St. John district, owns three powerful falls on said river, which can develop 8,000 horse power.

These falls, which are within a distance of seven miles, can easily be used for electricity purposes. With the acquisition of these three falls, the company controls the whole river above the big Falls of St. Andre, where a dam 468 feet long by 27 feet high is constructed, and is actually developing 7,000 horse power.

The company owns 172 square miles of the best timber limits of the country, situated on both sides of the river, and are heavily wooded with the best black spruce.

A railway, the property of the company, connects the

mill with the Lake St. John Railway at Lake Bouchette, and a locomotive is already doing service.

A cardboard machine, valued at \$30,000.00, and six McCormick turbines, valued at \$20,000.00, are on the premises ready to be put in operation.

The capacity of the mill, whose construction is about to be begun at St. Andre, will be 45 tons of dry pulp and 15 tons of cardboard per day, valued at \$1,000.00.

The bill incorporating the company gives it extensive powers, and its special situation and advantages will enable it to manufacture pulp wood and cardboard at a very low cost.

1,000 shares are offered at par during sixty days.

For particulars, prospectus and references address

THE METABETCHOUAN PULP CO., 216 Rue St. Paul, QUEBEC, CANADA.

17 YEARS OF CONTINUOUS SERVICE



Have failed to impair the working power of LEVIATHAN BELTING. We have the records of the first Leviathan Belt manufactured. They were made and placed in use 17 years ago and are still running and in first-class condition.

In all Paper and Pulp Mills and Manufactories where the effect of moisture, heat or cold, or weather conditions have to be considered, Leviathan Belting is superior to all others, because

It is made of a composition that is unaffected by heat, cold or moisture.

MAIN BELTING COMPANY, Sole Manufacturers,
1227-1241 Carpenter St., Phila. 120 Pearl St., Boston. 40 Pearl St., Buffalo.
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OLDEST, STRONGEST, BEST.

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IMPROVEMENT THE ORDER OF THE AGE.

A new pump, specially designed for paper and pulp mills. Extremely heavy and practically indestructible.

Write for Catalogue containing full particulars.

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The Best Flange Packing Made.

Rainbow Packing

Don't have to use wire and cloth to hold Rainbow.
Can't blow it out.



Thousands of Imitators. No Equal.
Will Hold Highest Pressure.

THE COLOR OF RAINBOW PACKING IS RED, Three Rows of Diamonds extending throughout the entire length of each and every roll of Rainbow Packing.

Steam heating companies can make thousands of joints in new plants without the use of steam, with the assurance and guarantee that when steam is applied every joint will be perfectly tight, saving the labor of baking and following up, etc., as is the case when usudurian or plum-bago packings are used, thereby saving from 100 to 800 per cent. of labor and time.

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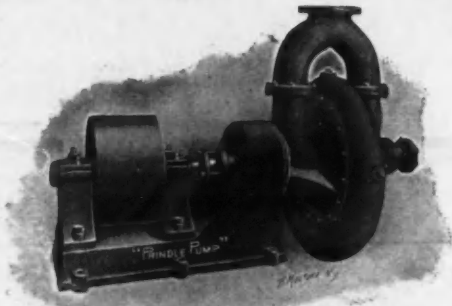
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BELT DRIVEN OR DIRECT CONNECTED WITH ANY POWER.



NEW IMPROVED. HEAVY. INDESTRUCTIBLE. CONVENIENT EFFICIENT.

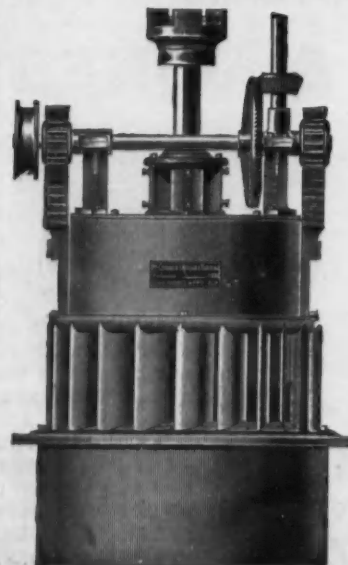
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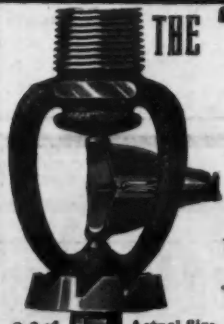
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Both Horizontal and Vertical, "White's" Patent Oscillating Screens, "Doane's" Patent Wood Pulp Grinder, Beating and Washing Engines, Rag Engines and Jordan Engines Made and Refilled, Bleach Boilers, Fan Dusters, Ferry's Patent Star Duster, Paper Calender Rolls made and repaired, Chilled Rolls, Sheet, Super and Web Calenders, Power Suction Pumps, Stuff Pumps, Power Boiler Pumps, Suction Boxes and Plates, Pulleys, Shafting, Gearing, etc.

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Approved and recommended by Insurance Companies. A MICA SEATED VALVE is used. Non-Corroding - Non-Adhesive - Impenetrable - Imperishable. The "ESTY" Sprinkler is tested under an AIR PRESSURE of 300 lbs. per square inch. Adapted for either WET or DRY systems. May be used either UPRIGHT or PENDENT. The SIMPLEST, STRONGEST, MOST SENSITIVE, MOST RELIABLE and MOST EFFECTIVE Sprinkler on the market. For full particulars address

2-3 of Actual Size. ESTY SPRINKLER CO., 63 MIH ST., LACONIA, N. H.

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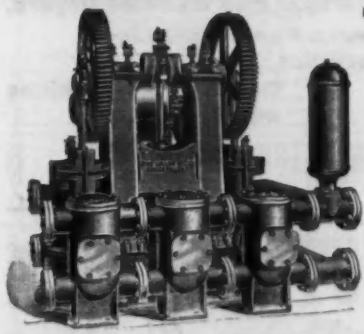
Efficient Power Pumps FOR PAPER MILLS.

Large Triplex Water Supply Pumps. Vacuum Pumps, Vertical and Horizontal. Stuff Pumps (two types). Pressure Pumps for Hydraulic Grinders. Improved Boiler Feed Pumps. SEND FOR CATALOG.

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POWER BOILER FEED PUMPS
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STEAM ENGINES
New Catalogue Now Ready

PULP FROM BAGASSE.

A Boston Inventor Patents a Process for Treating This Stock, as Well as Flax Waste, Jute, Cornstalks, Etc.

Charles Tennant Lee, of Boston, Mass., assignor to the Bagasse Pulp Company, a corporation of Maine, has been granted United States patent No. 701,271 on a process of reducing fibrous material to pulp, the inventor having found that by the process described excellent pulp can be made from bagasse, which is the crushed stalks or waste of sugar cane or sorghum, or from waste flax, jute, cornstalks and other vegetable materials having like absorbent and fibrous characteristics.

He describes his process as follows: "In accordance with the present invention the raw material if already damp, and by 'damp' I mean permeated with moisture, is subjected to the action of gaseous chlorine, which may be done by immersing the loose mass of material in a receptacle containing the chlorine gas. I have found that one half of the chlorine molecule unites with the hydrogen of the water with which the material is permeated to form hydrochloric acid and the other half of the chlorine molecule unites with the intercellular matter of the material to

form a soluble chlorine compound. Both of these are subsequently removed by washing, as hereinafter more fully described. If the raw material has been dried previous to treatment by my process, it should be dampened before subjecting it to the action of the chlorine gas until it has absorbed a sufficient quantity of water to form, when acted upon by the chlorine gas, the hydrochloric acid and the chlorine compound already described. Usually an immersion of the loose raw material in chlorine gas for a period of from half an hour to an hour will be sufficient to insure the proper separation of the fibres. The time will depend to some extent upon the coarseness of the fragments of the raw material and may be reduced by cutting, stripping, or breaking up the material previous to immersion in the chlorine gas. After the damp material has been thus subjected to chlorine gas it is removed therefrom and washed in water, which will remove the free chlorine, the chlorine compound, and the hydrochloric acid which are in the material. The washed material may be subjected to the bleaching effect of aqueous chlorine or an alkaline hypochlorite until it is rendered white, and after the bleaching operation it is again washed.

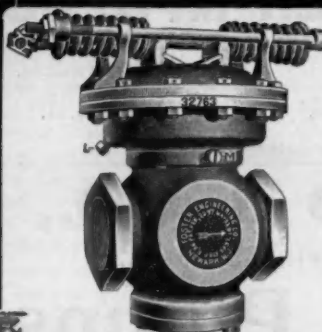
"The material is then in a pulpy condition and requires but little beating, and it may then be laid by a suitable machine in the usual manner for the manufacture of the desired final product."

The Friend Paper Company's Improvements.

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, June 2, 1902.—The petition of the George H. Friend Paper and Tablet Company to the Council of West Carrollton, Ohio, asking for the vacation of certain streets in the city by the adoption of ordinances, has been granted. The company requested that such action be taken to allow it to extend and enlarge the plant and increase the manufacturing facilities of the town. It is understood that the company will now push to rapid completion all of its contemplated improvements, which will involve an expenditure of \$200,000. Excavations are now under way for these buildings which will be erected during the summer. Among the streets, portions of which will be abandoned, are Bridge, Smith, Walnut, Mill and Friend, which practically includes all of the ground between the C., C. & St. L. tracks on the south, Bridge street on the west, the Miami and Erie Canal on the north, and Elm street on the east. It was agreed by members of the council that the grant would be to the direct advantage of the town, notwithstanding that the streets and public roadways will be abandoned. The company will also make rapid progress in reconstructing the recently destroyed Sterling Paper Mill at Hamilton, all of the debris having been cleared away, and the necessary excavation having been begun.

M. V.



PAYING INFORMATION

is found in 1902 Illustrated Catalog. Tells about pressure regulators—how it is possible to maintain a uniform delivery pressure regardless of initial pressure.

Aside from being reliable, **FOSTER AUTOMATIC PRESSURE REGULATORS** are economic; for that reason some of the largest steam plants use them.

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MANUFACTURERS OF PAPER MILL AND COATING MILL SPECIALTIES.

Power Reels with Slitters, Flint Machines, Brush Cleaners, Straining Machines, Improved Slitting and Rewinding Machines, Drum Winders, Slitter and Circular Knife Grinders, Improved Top and Bottom Slitters, Slitter Blades, Circular Knives and Rotary Cutters of every Description. Trucks of every Description. Send for Catalogue of Specialties we make.

IMPROVED WIRE SPOOLING MACHINE FOR WIRE AND WIRE CLOTH MANUFACTURERS.

SPECIFY

CRANE VALVES
AND
CRANE FITTINGS

IN BRASS OR IRON
FOR ALL PRESSURES AND PURPOSES

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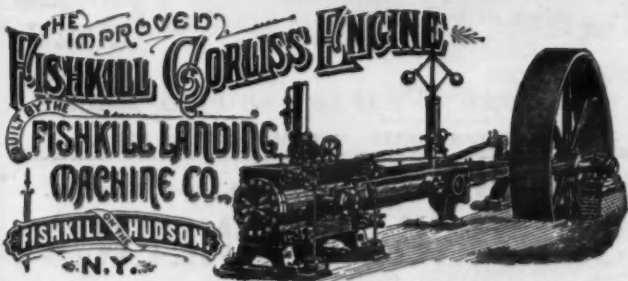
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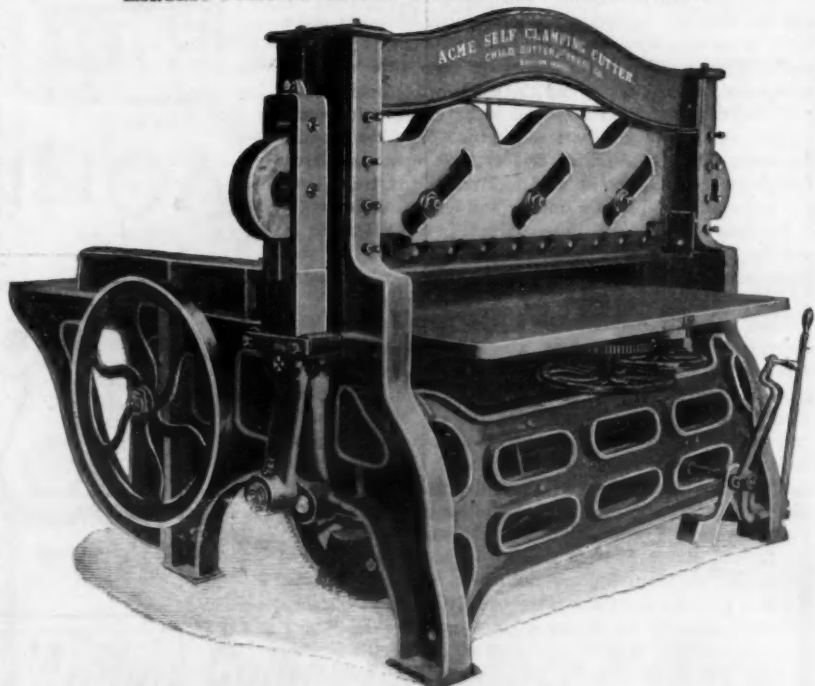


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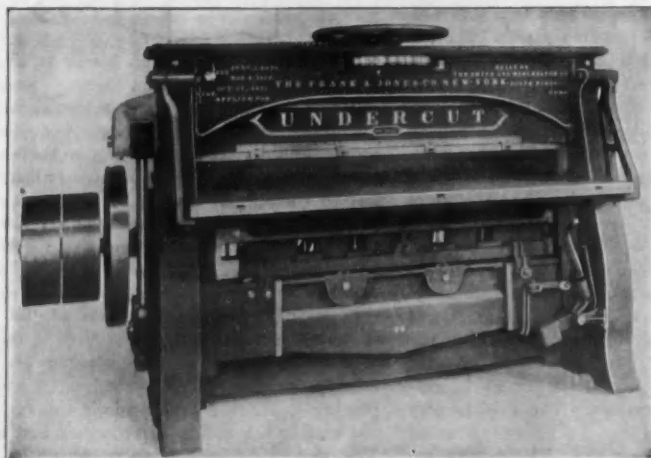
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PULP WORK IN JAPAN.

Some Peculiarities of Sulphite Making—The Uses to Which Pulp Is Put—How It Is Molded and Turned—The Tools Used.

MANILA, P. I., April 15, 1902.—Your correspondent recently visited Nagasaki and other important seaports of Japan, and made note of the progress in paper and paper pulp manufacture. As is well known to the trade, the Japanese have had access to the proper wood fibres for making pulp for many years, but for lack of proper machinery have failed to accomplish very much. Recently, however, both the Chinese and the Japanese manufacturers have adopted American and other patterns of pulp making apparatus, and have accomplished considerable. In Nagasaki I found that there were several concerns representing the pulp making interests of the country. Not only are the poplar and other woods of the empire used for this work, but there are processes of grinding cotton, linen, woolen, silk and other fibres of rags into a combination for boiling and reducing to pulp form. The logs are cut by the coolies and hauled to the mills, Spruce logs are brought in and the bark removed. I saw no effectual barking machines in use, although there were some of a home made pattern, fitted with revolving radial knives. These knives were not true or well sharpened in most cases, and the work progressed slowly and unsatisfactorily. The Japanese have ingeniously arranged stones for grinding the spruce or other woods. In some places American devices have been purchased for this work. The home made pattern is constructed on the same principle, but is smaller and less effective.

Sulphite pulp is also manufactured. The timber is cut into suitably sized pieces, and the chips, after a careful sorting, are deposited in digesters, cylindrical in shape, and not at all like those in use in American mills.

Then there is the cleaning operation, which is done much as in America, and by which foreign particles are removed. Chloride of lime is used in considerable quantities for bleaching. Screening is done on a novel plan. Compressed air or steam forcing devices are not used. In one place they had a sort of a spiral screw-press device, and the pulp was placed beneath the platen in a cylinder, the bottom of the cylinder being fitted with perforated portions through which the pulp was forced by screwing the platen down on the mass. The water in the pulp is evaporated as a rule, although in some places the workmen squeeze the moisture out by passing the pulp through the ordinary cylinders. The pressing into sheets is effected by means of steel rollers. In Fig. 1 is a plan used for holding two or more of the pulp boards in place for drying. Frames of wood made in clamp form and marked *a a* are used with little clamping bolts.

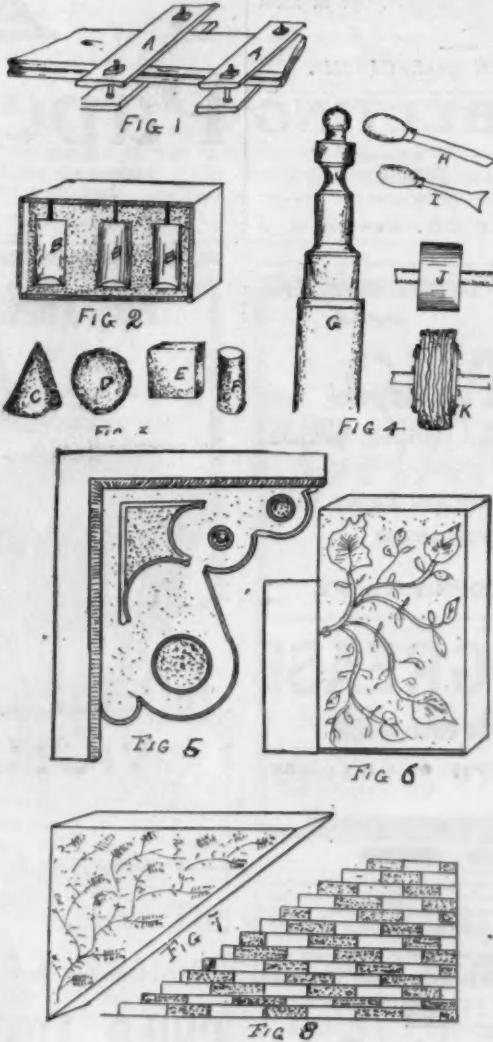
The writer also noticed several descriptions of molds for shaping the pulp blocks which are used in Japan. In Fig. 2 is a drawing of one of the flasks. There are models at *b b b*, as shown, and the gates to carry the pulp lead from the top of the flask into each mold as shown. The pulp is merely poured into the molds and allowed to stand until the moisture has evaporated, after which the pieces are compressed. This reduces the sizes. Then come baking and hardening, and final finishing. The blocks may be used for paving, for architectural purposes, sidewalks, &c. Some of the forms that are cast are shown in the illustrations. Fig. 3 has in it four samples. *C* is a cone-shaped pulpy piece, used in house building operations, as the piece is turned down, usually to some design, in a turning lathe. There is a common type of ball shown at *d*, while the ordinary pulp cube for paving or building purposes is at *e*. Sometimes the pieces are molded cylinder fashion as at *f*.

In Fig. 4 are shown some of the parts and tools employed in connection with architectural work in the Japanese pulp making districts. I saw some posts like that at *g* which had been molded from pulp. These posts were molded with part of the work patterned. The other portions had to be turned down. The Japanese have very elaborate ideas of architectural work, and they like free displays of artistic designs. Hence some of the posts or pillars were molded with considerable floral decoration and well formed line presentations. These posts are not as substantial as they might be, for the reason that the art of preserving the material against action of the weather is not yet fully understood. *H* is one of the cutting tools used for turning purposes. The tool is very similar to the chisel employed by the American wood turner. A type of gouge is shown at *i*. These tools are mostly of native make.

In the making of small articles from the pulp blocks there are shown types of finishing wheels employed. There is a form of emery wheel for a first grinding. This is covered with sand or emery of required size, and the articles to be ground are held against the surface. Then there is a smoothing wheel made of wood, covered with cloth or leather, or used bare, as in *j*. The final wheel *k*

is a flanged affair, between the flanges of which are cloths of different fineness. The wheel is revolved rapidly, while the article to be finished or glossed is held against it. Often oil and emery are applied, and by this means a very fine surface is imparted to the article.

The Japanese put the pulp material to some singular uses. In Fig. 5 is a design of cornice which is employed. Sometimes the raised portions are given a shaded effect by the application of a staining material. Again the raised parts are sanded with good results. I saw quite a number of pieces of this nature made to imitate carving. The pulp, being treated while in a soft state, is readily patterned with neat floral or figure designs. In Fig. 6 is a type of block, freely decorated with a variety of vine work. There are some fairly good designers among the Japanese, who give all of their time to creating new patterns for this line



of work. They also design for signs, architectural work, &c., and are usually kept busy. Your correspondent called at the studios of some of these native designers and found that they were well equipped with the necessary articles and devices for carrying on their work. They had brushes, tools, colors and outfits of all descriptions essential to their line. In Fig. 7 is shown another class of pulp work, made in imitation of regular wood or stone blocks. One often sees these same designs in stone or wood material. In fact, some of the pulp makers use the original patterns of stones or wood for models. The pattern is impressed in the sands of the pulp mold, and therefore the same design is secured in the pulp formation. It is not unusual to find that separate bricks or blocks are cast for purposes of construction. I saw some well appearing floors that were made in this fashion. The bricks are cast in the molds as described and are then pressed. The fibre is squeezed firmly, resulting in a compact brick. This may be stained and the colors laid alternately, as in Fig. 8. The effect is always pleasing, and if the bricks are well prepared a substantial floor or wall results. In Fig. 9 is a specimen of an electric light post which the writer noticed. It is shaped from pulp. I made inquiries and found that a number of such posts had been molded and fitted with cross arms *a*, the latter fitting as shown.

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Awards for Supplying Paper to the Bureau of Engraving and Printing for the Fiscal Year Ending June 30, 1903.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., May 30, 1902.—The director of the Bureau of Engraving and Printing has awarded the following contracts for supplying the bureau with paper during the fiscal year ending June 30, 1903:

50,000 pounds press board, American, the Rogers Paper Manufacturing Co., Inc., South Manchester, Conn., 5¼ cents per pound.

200 reams manila, 22x25-40, E. Morrison Paper Co., Washington, D. C., 6.4 cents.

2,000 reams manila, 30x40-50, Philip Lindeemeyer, Baltimore, Md., 2.8 cents.

500 reams manila, 30x40-80, Wolf Bros., Philadelphia, Pa., 6.4 cents.

20 reams manila, 30x42-170, Reading Paper Mills, Philadelphia, Pa., 8.9 cents.

200 reams manila, 30x40-225, R. P. Andrews & Co., Inc., Washington, D. C., 4.9 cents.

200 reams manila, 17½x27-90, J. P. Nawrath, New York, N. Y., 3.9 cents.

6 reams white record, regular sizes and weights, E. Morrison Paper Co., 10½ cents.

50 reams white plate, 24x32-150, bids rejected.

60 reams writing, white wove, medium quality, Universal Supply Co., New York, N. Y., 10 cents.

60 reams writing, all colors, 14x17-18, Dobler & Mudge, Baltimore, Md., \$1.98 per ream.

100 reams book, 26x40-35, flat, R. P. Andrews & Co., Inc., \$1.40.

50 reams book, 17x22-12, flat, Dobler & Mudge, 98 cents.

150 reams paraffine, 24x36, flat, E. Morrison Paper Co., \$1.10.

250 reams heavy waxed, 26x36-52, R. P. Andrews & Co., \$3.

250 reams red glazed, 20x30-24, McDonald & Fisher, Baltimore, Md., \$1.74.

3,000 reams shoe manila, 11x15, Philip Lindemeyer, 6¼ cents.

12 tons straw board, 26x38, any number, steam dried, E. Morrison Paper Co., \$27.

120,000 pieces straw board, No. 35, 9¼x10¾, E. Morrison Paper Co., \$2.97 per 1,000 pieces.

6 tons tar board, 22x28, any number, Philip Lindemeyer, \$45.

300,000 sheets bond and parchment, Crane & Co., 50 per cent. discount.

200,000 envelopes, hand made, manila, Philip Lindemeyer, \$6 per 1,000.

20,000 sheets opaque, glazed, drab, safety bond paper, 14x14½, No. 25 thick, Crane & Co., \$8.10 per 1,000 sheets.

The director has also accepted the proposal of the New York and Pennsylvania Co., of New York, N. Y., to furnish paper for postage stamps during the next fiscal year at the rate of 4.9 cents per pound. A. F. T.

Miami Valley Canal Transportation.

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, June 2, 1902.—That the Miami and Erie Canal Transportation Company intends to monopolize canal traffic is evidenced by the fact that it is buying up the stock of nearly all of the transportation companies which operate between Dayton and Cincinnati. The control of the Hamilton Canal Boat Company, which is capitalized at \$25,000, has passed into the hands of the Miami and Erie, which is now building a line to be propelled by electricity. This road will cost a small fortune, and will prove of direct benefit to the paper mill men who ship both the raw products and finished material on the water unless rush orders are stipulated. The purchase price for the Hamilton Canal Boat Company is not known, but it is said to have been above par, as the stock paid a dividend of 10 per cent. The equipment consisted of twelve boats and forty-two mules. Other similar concerns will be bought up. The general manager of the proposed Miami and Erie Transportation Company says: "The public has been led to believe that we are trying to steal the bed of the canal for traction purposes. We never desired it for that purpose, but we are after the freight traffic and purchases should indicate that we are in earnest." M. V.

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ANDERSON, Ind., May 28, 1902.—W. J. Alford, of Anderson, is on his way to New York, and from there will go to Europe, where he will represent several large American concerns that are after foreign trade. Some of these concerns may establish factories in Europe. Mr. Alford, while abroad, will look after sites for plants of the coated paper box and board trust, in which Indiana men are interested, and which proposed to locate mills near London, Liverpool, Paris and Berlin.

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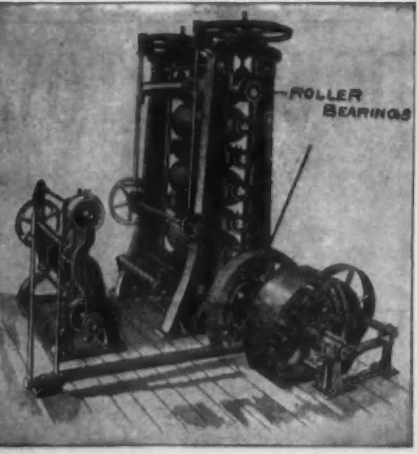
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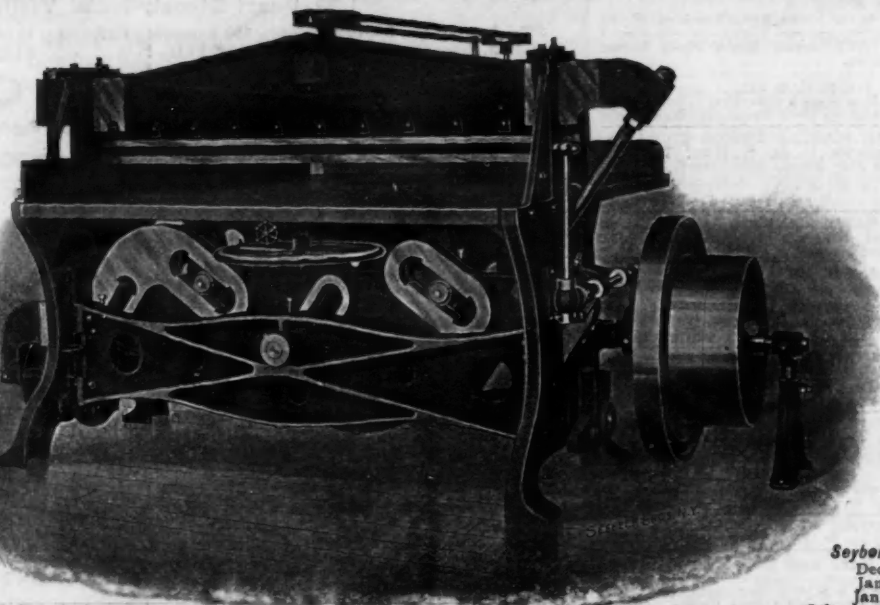
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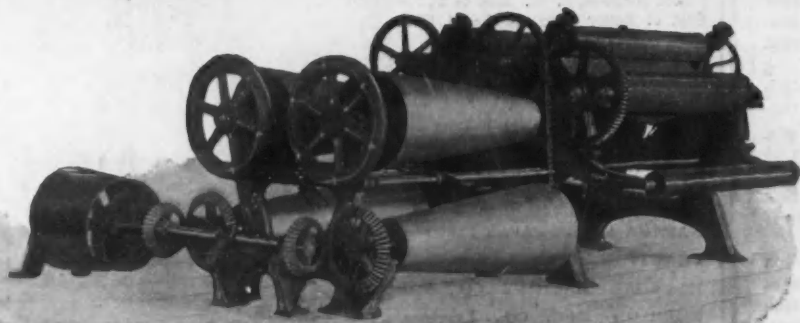
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PHILADELPHIA, U. S. A.

PAPER MACHINERY.

DOWNINGTOWN MANUFACTURING CO.



BUILDERS
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*Paper
Mill
Machinery*

EAST DOWNINGTOWN, PENNA.

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AND THE
Diamond Mills Paper Co.**

CLING-SURFACE MFG. CO.:

Gentlemen—We are much pleased with Cling-Surface. It lasts three times as long as anything else we ever used.

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Is in use at their Milburn and Bloomfield, N. J., and Saugerties and New Hampton, N. Y., mills.

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Cling-Surface Mfg. Co.

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BOSTON: 170 Summer St.

BOOKS FOR PAPER MAKERS.

THE DYEING OF PAPER

PULP. By Julius Erfurt.

Translated into English by

Julius Hübner.....\$7.50

This book was issued from the press last February.

In Chapter I. the behavior of the paper fibres during the process of dyeing and the theory of the mordant are treated, while Chapter II. is devoted entirely to mordants. The influence of the water used is discussed in Chapter III., while in Chapter IV. artificial and natural mineral colors are the subjects written about. Chapter V. is exclusively on organic colors, it being in two divisions, the first being of colors of vegetable and animal origin and the second of artificial organic (coal tar) coloring matters. Chapter VI. treats of the practical application of the coal tar colors according to their properties and their behavior toward the different paper fibres. Chapter VII. is the most extensive, and contains the leading feature of the book. It contains 157 samples of paper dyed in the pulp, each of the samples being accompanied by the formula for stock and color. Included in the samples are those of placard, wrapping, cartridge, blotting, wall and packing papers, while much space and attention are given to mottled papers made of various classes of stock.

PRACTICAL PAPER MAK-

ING. By George Clapper-

ton.....\$2.50

A general treatise, and includes chapters on the chemical and physical characteristics of fibres, cutting and boiling rags, washing, breaking and bleaching, antichlor, mechanical wood, esparto, straw, beating, loading, coloring, resin and animal sizing, the Four-drier machine and its management, glazing and burnishing, cutting and finishing, microscopic examination of paper, tests for ingredients of paper, recovery of soda, tests of chemicals, tables of sizes, weights, &c. It is illustrated and contains a general review of the manufacture of paper that is serviceable and of value.

THE ART OF PAPER MAK-

ING. By Alex. Watt.....\$3.00

Its various chapters relate to cellulose, materials used in paper making, treatment of rags, esparto, wood and various other fibres, bleaching, beating, refining, loading, sizing, coloring, hand and machine paper making, calendering, cutting and finishing, colored papers, machines used in paper making, recovery of soda from spent liquors, determination of real value of commercial sodas, chloride of lime, &c., and useful tables and notes.

A TEXT BOOK OF PAPER

MAKING. By C. F. Cross

and E. J. Bevan. (Second

edition.).....\$5.00

This book treats of the chemical and physical characteristics of paper making fibres, their treatment, cellulose, beating, sizing, loading, coloring, the paper machine, hand made paper, calendering, cutting, caustic soda, recovery of soda, testing, site for paper mill, water supply, statistics, &c.

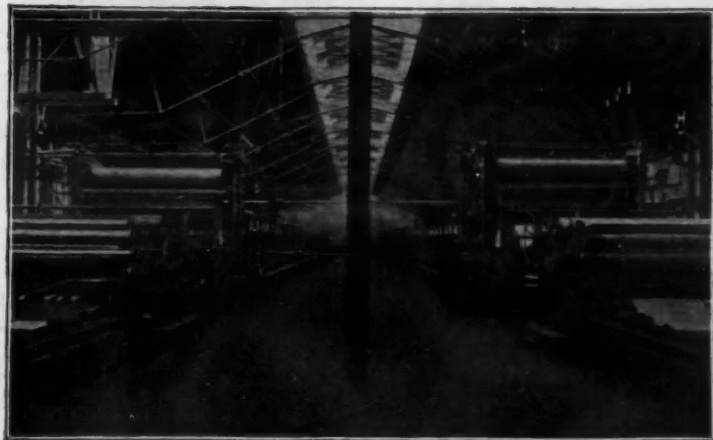
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Best Paper Making Machines for All Grades of Papers and Boards.

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MACHINERY FOR PULP AND PAPER MILLS.

Saturating Machinery, Ink Mills,
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PARTICULARS UPON REQUEST.

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WANTED—A machine tender experienced on blotting; must be of good character and sober. Address, giving references, Blotting, care Paper Trade Journal.

SITUATION WANTED—By first-class foreman, well up on all grades of paper and stock; sober and reliable man, with family. Address Bay, care Paper Trade Journal.

WOOD PULP FOR EXPORT—German firm of highest standing in the paper trade wants agency for the export of wood pulp. Address XXX, care Paper Trade Journal.

PAPER MILLS—The Associated Purchasers reduce your costs; write for particulars. 150 Nassau street, New York city.

WANTED—Good second-hand cylinder machine, suitable for making deadening felt, 72 inch trimmed. Address, with full particulars, Felt Paper, care Paper Trade Journal.

AN OPERATING foreman (Austrian) who is acquainted with making of the finest of papers, and also artistic watermarks, wishes position in a large fine paper mill; 20 years' experience; best of references of the finest and largest paper manufacturers of Germany and Austria. Address Austrian, care Paper Trade Journal.

SUPERINTENDENT now running one of the most up to date news and ground wood mills in this country, wishes to make change; satisfactory reasons for doing so. Address W. M., care Paper Trade Journal.

WANTED—Position by a reliable cooker on large sulphite digester; can furnish very best of references. Address Cooker, care Paper Trade Journal.

WANTED—Position as superintendent of mill making manilas; bag manilas a specialty; twelve years' experience; can furnish references. Address U. S. D., care Paper Trade Journal.

WANTED—Wet machine tender and cooker for sulphite plant; married man preferred; references required. Address B. R. S., care Paper Trade Journal.

TRAVELING SALESMAN selling paper goods to printers and others is open for position. Address Paper Salesman, care Paper Trade Journal.

WANTED—Paper Bags—Man on tubing machine; one with experience on bottom machines preferred. Steady, care Paper Trade Journal.

WANTED—First-class machine tender; fast running book machine; highest wages; steady job; must be young, sober and energetic. Address Fast Running, care Paper Trade Journal.

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After placing the order for these we decided to use full width cutters, to take paper from our 134-inch paper machines, and consequently these cutters have never been set up, and we will sell them at a reasonable figure. J. E. Henry & Sons, Lincoln, N. H.

PAPER MILL FOR SALE.

The Walesville Paper Mill, formerly conducted by Hoffman & Thompson, at Walesville, Oneida County, N. Y., consisting of about 9 acres of land on the Oriskany Creek, splendid water power and mill well equipped with paper machinery, will be sold at public auction at foreclosure sale June 25, 1902, at 10 A. M., at the Court House, Utica, N. Y. For further particulars address Clarence Stetson, attorney for mortgagee, Martin Building, Utica, N. Y.

WANTED.
Old Brass Wire Cloth,
Scrap Brass, Old Paper Mill
Felts. Will be pleased to quote prices.
Write to
THEODORE HOELLER & CO.,
98-100-102 Terrace, Buffalo, N. Y.

FOR SALE.

Dryers, Press Rolls, Molds, Paper Cutters, Steam and Rotary Boilers, Calenders and other machinery.

One 4-Cylinder Board Machine, consisting of thirteen 8x66 Iron Dryers, two stacks Chilled Calender Rolls, Reel Cutter, Winder.
One 1,200 lb. Jones Double Lighter Beater.
Two 1,500 lb. Horne Single Lighter Beaters.
Three 1,000 lb. Horne Iron Tub Double Lighter Beaters.
One 750 lb. Iron Tub Beater.
Four 200 lb. Iron Tub Beaters.
Two Emerson, Two Horne Jordans.
Five Horne Patent Beaters, practically new.
One 24x30 Corliss Engine.
One pair 28x60 Harris Corliss Engines.
Nos. 2 1/2, 5, 6, 9 Knowles Steam Pumps.
One 1,000 gallon power Dow Pump.
Two 100 inch Meissel Slitters.
Three Bagley & Sewall three-pocket Grinders, '94 pattern.
Three Olin Scott three-pocket Grinders, '94 pattern.
One 16x36 Green Engine. One 12x30 Corliss Engine.
One 18x48 Harris Corliss Engine.
One 14x44 Automatic Engine.
One Sandy Hill Duster. One Jute Thrasher.
One Hydraulic Press; platens, 48x36.
One 36 inch Trimmer.
One 60 inch Moore & White Cutter, with Slitters.
One 8-shaft Manning Winder, new.
Two 12x18 inch Skinner Slide Valve Engines.

F. H. DAVIS & CO.,
53 State St., BOSTON, MASS.


FOR SALE.

One Steven's Digester for old papers of the largest size, made by the Emerson Mfg. Co.
One Glouber Feed Water Heater, 600 h. p.
One Double Riveted Rotary, 34 ft. long, 7 ft. in diameter, of the very best make and as good as new.
One Worthington Duplex Compound Pump, 10x16x24, in good condition.
For prices, etc., address The Colin Gardner Paper Company, Middletown, Ohio.

FOR SALE.

Several Press Rolls of various sizes.

BLACK & CLAWSON CO.,
Hamilton, Ohio.



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to the Master Printers of this country cannot receive more effective and prompt delivery than is offered by that beautifully gotten up monthly magazine.

The American Printer.

Returns from its use might surprise you. Printed on finest paper—artistically illustrated. \$3.00 a Year. Send for sample copy.

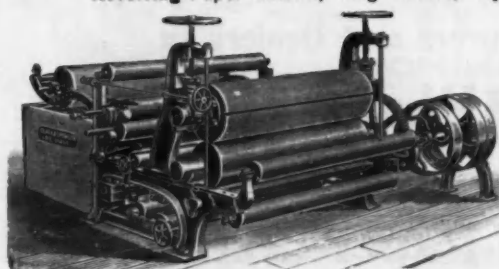
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MANUFACTURERS OF PAPER MILL MACHINERY,
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Revolving Paper Cutters, Rag Cutters, Cylinder Paper Machines,



Washing and Beating Engines
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Engine Roll Bars & Bed Plates,
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Two 1,200-lb. Beaters and one 500-lb.
One 2-Cylinder Cypress Vat, iron top frame.
Two Water Pumps; two Paper Presses.
One Tar Vat, with rolls complete for tar board.
One Rewinder; one Egg Case Machine.
One Lime Slacker, 47x103, complete.
Large lot Shafting, Pulleys and Hangers.

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Specialty: The Most Strong Fibrous Qualities.
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Want only one agent in a city.

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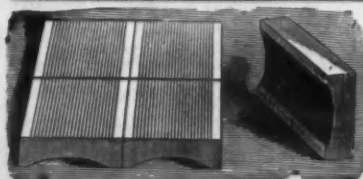
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MORRISON & HERRON,

Paper Testing Machines.

The Standard Everywhere. WRITE FOR PRICES. Used in Every U. S. Government Department.

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IN USE OVER TWENTY YEARS IN THE LEADING MILLS OF THIS COUNTRY, CANADA AND JAPAN. Send for Circulars.

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Wilson Filters, }
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Catalogues sent upon application.

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Chilled Rolls

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ALSO MANUFACTURERS OF GRINDING MACHINES FOR ALL KINDS AND SIZES OF ROLLS.

CHILLED AND DRY SAND ROLLS

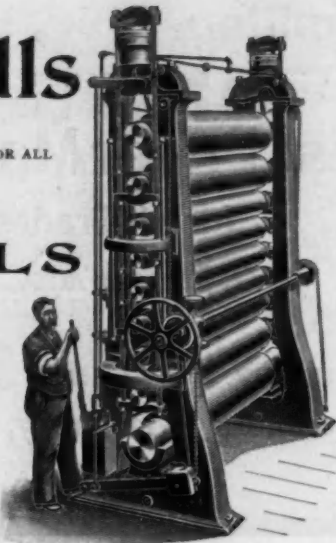
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COMPLETE CALENDERS.

Patent Hydraulic Lift by means of which machine tender, standing on floor, can raise rolls in frames.

Housings so made that the rolls may be taken out endwise through frame.

Old Rolls Reground at Short Notice.



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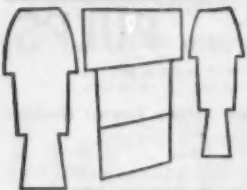
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All Kinds of Paper Box Boards.

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Manufacturer of **COGS** and all kinds of Mill Work.

Gentlemen—Give me a trial to make you a set of COGS. If you have not got a Cog Pattern, and don't care to make one, drive a cog out of your wheel and mark the exact width on the Face Cut and the exact thickness on the End Cut of this Diagram. If you want only one Keyseat, mark off one when you send card for pattern. I carry a complete stock of seasoned Hard Maple, and can make Cog on short notice. When you write for price give width and thickness of larger end.

ACKNOWLEDGED TO BE MORE ECONOMICAL & SAFER THAN MILL MADE SIZE

READY MADE ROSIN SIZE

for Particulars apply to **ARABOL MFG. CO.** NEW YORK

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Henry Knuck & Company,

WHITEHALL WORKS, Dundee, Scotland.

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Jute, Cotton, Linen, Flax, Hemp and Wool Wastes

Home and Foreign Government Railway and Shipping Contractors.

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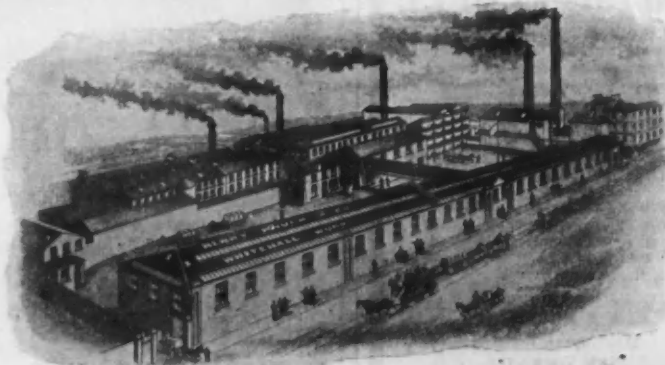
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Engine Cleaning Wastes, SPUN AND UNSPUN OAKUM.

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Jute, Hemp, Sisal and Manila Twines and Ropes. New and Second-hand Sacks and Bags. Jute Rove and Yarns.



ALL GOODS CAREFULLY PACKED BY HYDRAULIC POWER.

Samples and Prices on Application.

Direct Steamers to all American and Canadian Ports.

Correspondence Solicited.

IMPORTS AND EXPORTS.

IMPORTS AT NEW YORK.

For the Week Ended May 31, 1902.

	Quantity.	Value.
Aniline Colors.....	1,417	\$77,675
Bleaching Powders.....	1,254	12,171
Books.....	271	34,302
Clay.....	51	2,665
Engravings.....	20	2,522
Jute Butts, &c.....	1,325	5,732
Newspapers.....	267	5,948
Paper.....	813	43,164
Paper Hangings.....	51	2,025
Paper Stock.....	2,749	33,395
Printed Matter.....	203	14,209
Soda Ash.....	159	2,970
Soda Caustic.....	225	2,524
Terra Alba.....
Talc.....	300	372
Twine.....	2	54
Ultramarine.....	399	5,154
Waste.....	5	212
Total.....	\$245,094

IMPORTS OF PAPER STOCK AT NEW YORK.

From January 1 to June 3, 1902, inclusive.

Whence Imported.	Reel.	Old Papers.	Chemical Fibre.	Manila Stock
Antwerp.....	Bs. 15,016	Bs. 63	Tons. 820	Bs. 4,934
Barcelona.....	Coils. 1,018
Bordeaux.....
Bremen.....
Bristol.....
Cadix.....
Central America.....
Copenhagen.....
Christiania.....
Dundee.....
Dunkirk.....
Genoa.....
Glasgow.....
Hamburg.....
Havre.....
Hioho.....
Hull.....
Leghorn.....
Leith.....
Liverpool.....
London.....
Marseilles.....
Newcastle.....
Rotterdam.....
Stettin.....

NEW YORK IMPORTS.

For the Week Ended June 3, 1902.

Paper.

E. Majert, La Gascogne, Havre, 4 cs. hangings.
 American Tobacco Company, by same, 12 cs.
 Japan Paper Company, by same, 27 cs.
 H. A. Hagan, by same, 5 cs. hangings.
 L. Dejonge & Co., Zealand, Antwerp, 31 cs.
 Knauth, Nachod & Kuhne, by same, 9 cs.
 Henry Lindenmeyr & Sons, by same, 2 cs.
 Hensel, Bruckmann & Lorbacher, by same, 48 cs.
 Kupfer Brothers, by same, 6 cs.
 F. J. Emmerich & Co., Grosser Kurfurst, Bremen, 8 cs. hangings.
 Henry Drucker, by same, 3 cs.
 Kupfer Brothers, by same, 12 cs.
 B. Russegger, Kron Prinz Wilhelm, 7 cs.
 F. B. Vandergrift & Co., British King, Antwerp, 2 cs.
 E. C. Roberts, Majestic, Liverpool, 6 cs. hangings.
 American Tobacco Company, by same, 75 cs.
 A. Sartorius, by same, 4 cs.
 L. Kahlmann, Pretoria, Hamburg, 3 cs.
 L. Dejonge & Co., by same, 10 cs.
 Zinkeisen & Co., by same, 6 cs.
 Dingelstedt & Co., by same, 24 cs.
 A. Kraut & Co., by same, 34 cs.
 G. W. Sheldon & Co., by same, 41 cs.
 W. Stursburg, Schell & Co., by same, 33 cs.
 G. Amsinck & Co., by same, 13 cs.
 W. H. S. Lloyd, St. Paul, London, 9 cs. hangings.
 Dingelstedt & Co., La Aquitaine, Havre, 33 cs.
 J. Dickinson & Co., by same, 17 cs.
 G. W. Sheldon & Co., Ryndam, Rotterdam, 2 cs.
 Miller, Sloane & Wright, by same, 2 cs.
 L. Dejonge & Co., by same, 6 cs.
 C. Kahlken, by same, 7 cs.

Adolph Kraut, by same, 21 cs.
 G. Amsinck & Co., by same, 18 cs.
 Eimer & Amsed, by same, 5 cs.

Rags, Paper Stock, Etc.

R. Helwig, Zealand, Antwerp, 934 bs. wood pulp, 125 tons.
 F. Bertuch & Co., Island, Stettin, 2,035 bs. wood pulp, 275 tons.
 S. Goldman, Pretoria, Hamburg, 84 bs. wood pulp, 15 tons.
 Barbour Flax Spinning Company, Nomadic, Liverpool, 41 bs. flax waste.
 F. Salomon & Co., by same, 54 bs. rags.
 Joseph Joseph & Brother, by same, 120 bs. cotton waste.
 E. Butterworth & Co., British King, Antwerp, 392 bs. bagging.
 Train, Smith Company, by same, 56 bs. rags.
 Train, Smith Company, Pinners Point, Leith, 81 bs. rags, 7 bs. waste paper.
 Salomon Brothers & Co., Pretoria, Hamburg, 85 bs. rags.
 Joseph Joseph & Brother, by same, 46 bs. cotton waste.
 Felix Salomon & Co., by same, 152 bs. rags, 231 bs. manilas.
 Barbour Flax Spinning Company, Georgian, Liverpool, 17 bs. flax waste.
 A. Katzenstein, British Trader, Antwerp, 237 bs. rags.
 Felix Salomon & Co., by same, 23 bs. cotton waste.
 Reis & Co., by same, 156 bs. cotton waste.
 Atterbury Brothers, Island, Stettin, 25 bs. bagging.

Bleaching Powder.

F. A. Reichard, Kensington, Antwerp, 139 cks.
 Fuert Brothers Company, by same, 92 cks.
 A. Klipstein & Co., by same, 75 cks.
 J. L. & D. S. Riker, Tauric, Liverpool, 260 cks.
 Roessler & Hasslacher Chemical Company, Tropic, Liverpool, 585 drums.

Soda Caustic.

J. L. & D. S. Riker, Tauric, Liverpool, 75 cks., 50 drums.
 Edward Hill's Son & Co., Consuelo, Hull, 100 drums.

Sizing.

A. K. Gardner & Brother, Nomadic, Liverpool, 158 bs. hide cuttings.
 E. Butterworth & Co., Celtic, Liverpool, 210 bs. hide cuttings.
 E. Butterworth & Co., Ryndam, Rotterdam, 96 bs. hide cuttings.

China Clay.

Dunn Brothers, Celtic, Liverpool, 209 cks.
 Moore & Munger, by same, 300 cks.
 F. A. Reichard, Georgian, Liverpool, 60 cks.
 F. A. Wight, by same, 100 cks.
 L. A. Salomon & Co., by same, 100 cks.
 John Knight & Co., by same, 100 cks.

EXPORTS FROM NEW YORK.

For the Week Ended June 3, 1902.

Books.

Antwerp, pkgs.....	3	\$375
Argentine Republic, cs.....	50	3,510
British West Indies, pkgs.....	2	88
British possessions in Africa, pkgs.....	28	975
Bremen, cs.....	1	304
Central America, cs.....	28	1,280
Chili, cs.....	7	390
Ecuador, pkgs.....	4	299
Genoa, cs.....	4	325
Havre, cs.....	19	1,371
Hamburg, pkgs.....	12	539
Japan, cs.....	4	360
Liverpool, cs.....	7	353
Leipzig, pkgs.....	3	514
London, pkgs.....	14	888
Mexico, cs.....	2	215
Nova Scotia, pkgs.....	2	12
Newfoundland, pkgs.....	11	250
Philippines, cs.....	175	18,729
Peru, pkgs.....	5	353
Rotterdam, cs.....	1	72
San Domingo, pkgs.....	4	92

Caustic Soda.

Central America, drs.....	5	\$112
Cuba, drs.....	22	487
Chili, drs.....	20	320
Peru, drs.....	35	986
San Domingo, drs.....	25	475
Venezuela, drs.....	4	92

Clay.

Antwerp, sks.....	290	\$160
Argentine Republic, bags.....	800	310
Copenhagen, bbls.....	420	320
Hamburg, bags.....	547	440

Established 1880.

Liverpool, bbls.....	30	160
London, bags.....	172	200
Reval, bags.....	1,050	840

Paper.		
Antwerp, pkgs.....	9	\$233
Argentine Republic (sandpaper), cs.	40	549
British West Indies, pkgs.....	433	769
Bristol, pkgs.....	43	152
British poss. in Africa, pkgs.....	451	2,527
Bremen, cs.....	7	170
Bremen (sandpaper), pkgs.....	9	84
Brazil, pkgs.....	23	61
Brazil (sandpaper), pkgs.....	2	54
British East Indies, pkgs.....	10	90
British Guiana, pkgs.....	25	93
Central America, pkgs.....	20	167
Central America (sandpaper), bale..	1	15
Copenhagen (sandpaper), pkg.....	1	42
Copenhagen, pkgs.....	44	604
Cuba, pkgs.....	1,072	3,889
Cuba, cs.....	17	136
Chili, pkgs.....	109	880
Chili (sandpaper), pkgs.....	5	52
Dutch West Indies, cs.....	41	61
Ecuador, pkgs.....	14	127
Ecuador (music), cs.....	1	105
Glasgow, pkgs.....	4	174
Havre (music), cs.....	2	510
Havre, pkgs.....	4	136
Helsingfors, pkgs.....	25	520
Hamburg (stock), pkgs.....	49	699
Hamburg (sandpaper), pkgs.....	81	1,192
Hull, pkgs.....	2	83
Hayti, pkgs.....	18	63
Japan, pkgs.....	326	7,024
Korea, pkgs.....	14	385
Liverpool, pkgs.....	1,483	3,245
Liverpool (straw board), cs.....	3	1,514
London (hangings), cs.....	19	473
London, pkgs.....	227	4,399
London (sandpaper), pkgs.....	95	1,104
Mexico, pkgs.....	438	1,344
Mexico (sandpaper), pkgs.....	181	1,025
Mexico (hangings), pkgs.....	7	134
Nova Scotia, pkgs.....	2	95
Newfoundland, pkgs.....	110	174
Newfoundland (hangings), pkgs.....	36	65
Philippines, pkgs.....	762	18,013
Oporto, pkgs.....	2	18
Peru, pkgs.....	178	1,757
Peru (sandpaper), pkgs.....	27	352
Portuguese poss. in Africa, pkgs.....	4	10
St. Petersburg, pkgs.....	121	1,475
Stockholm, pkgs.....	89	980
Rotterdam, pkgs.....	585	2,372
Rotterdam (sandpaper), pkgs.....	10	314
San Domingo, pkgs.....	20	141
Uruguay, cs.....	2	34
U. S. of Colombia, cs.....	76	184
U. S. of Colombia (sandpaper), pkg.	1	10
Venezuela, cs.....	31	365
Venezuela (hangings), bs.....	16	106

Printed Matter.		
Antwerp, pkgs.....	10	\$105
Belgin, cs.....	1	85
Bristol, cs.....	2	117
Bremen, pkgs.....	5	150
Hamburg, pkgs.....	7	160
Liverpool, pkgs.....	35	1,574
Leeds, pkgs.....	1	10
London, pkgs.....	134	5,423
Mexico, cs.....	6	460
Philippines, pkgs.....	2	369
Rotterdam, pkgs.....	1	17
Southampton, cs.....	6	125
Venezuela, cs.....	16	4,000

Stationery.		
Brussels, cs.....	125	\$650
British West Indies, pkgs.....	32	260
Berlin, cs.....	3	325
British Australia, cs.....	1	27
British poss. in Africa, pkgs.....	46	3,246
Bremen, cs.....	6	65
Brazil, pkgs.....	7	136
British East Indies, pkgs.....	8	323
British Guiana, pkgs.....	9	50
Central America, pkgs.....	9	128
Copenhagen, pkgs.....	7	130
Cuba, pkgs.....	106	1,691
China, cs.....	10	381
Chili, pkgs.....	15	370
Dutch West Indies, cs.....	4	23
Ecuador, pkgs.....	3	484
French West Indies, cs.....	2	100
Havre, cs.....	1	10
Hong Kong, pkgs.....	2	22
Hamburg, pkgs.....	31	1,388
Japan, cs.....	9	639
Liverpool, pkgs.....	24	1,501
Lisbon, pkgs.....	17	130
London, pkgs.....	144	8,540
Mexico, pkgs.....	53	3,701
Nova Scotia, pkgs.....	8	142
Newfoundland, pkgs.....	21	267
Philippines, pkgs.....	122	1,095
Oporto, pkgs.....	4	33
Peru, pkgs.....	18	1,106
Portuguese poss. in Africa, pkgs.....	6	346
Rotterdam, pkgs.....	1	15
San Domingo, pkgs.....	18	240
Uruguay, cs.....	2	31
U. S. of Colombia, pkgs.....	11	280
Vienna, pkgs.....	6	251
Venezuela, cs.....	4	77

Wood Pulp.		
Antwerp, rls.....	477	\$1,300
Havre, rls.....	200	725
Liverpool (board), rls.....	372	2,583
London (board), bbls.....	194	194
Mexico, rls.....	664	2,520
Mexico (board), cts.....	44	537
Nordkoping, bbls.....	187	565

BOSTON IMPORTS.

From May 26 to June 2, 1902, inclusive.

Paper, Etc.

L. Haberstol & Co., Sylvania, Liverpool, 1 cs. paper hangings.
 Irving & Carson, by same, 2 cs. paper hangings.
 Dennison Manufacturing Company, by same, 6 cs. paper.
 W. H. Guild & Co., by same, 6 bs. periodicals.
 Austin, Baldwin & Co., New England, Liverpool, 3 cs. printed paper.
 E. A. Leigh, by same, 2 cs. parchment.
 Stoddard, Haserich, Richards & Co., Armenian, Liverpool, 1 cs. paper hangings.

Rags, Paper Stock, Etc.

Edwin Butterworth & Co., Sylvania, Liverpool, 57 bs. rags, 83 bs. manilas.
 Hollingsworth & Vose Co., Michigan, Liverpool, 318 coils manilas.
 W. F. Corne, by same, 16 bs. rags.

Sizing.

Thomas Groom & Co., Sylvania, Liverpool, 76 bags.
 Train, Smith Company, Philadelphian, Liverpool, 128 bags.

W. F. Corne, by same, 58 bags.
 Thomas Griffiths & Co., Armenian, Liverpool, 170 bags.

Bleaching Powder.

J. L. & D. S. Riker, Sylvania, Liverpool, 255 cks. Order, by same, 167 cks.
 J. L. & D. S. Riker, Michigan, Liverpool, 304 cks.
 Linder & Meyer, Armenian, Liverpool, 85 cks.

China Clay.

L. A. Salomon & Brothers, Sylvania, Liverpool, 190 cks.
 Perkins, Goodwin & Co., New England, Liverpool, 50 cks.
 Champion International Company, by same, 200 cks.
 John Richardson, Philadelphian, Liverpool, 548 cks.
 American Express Company, by same, 368 cks.
 American Express Company, Armenian, Liverpool, 100 cks.
 John Richardson, by same, 596 cks.

Soda Ash.

Linder & Meyer, Philadelphian, Liverpool, 200 bags, 32 tcs.
 Linder & Meyer, Armenian, Liverpool, 600 bags, 32 tcs.

Crude Sulphur.

Linder & Meyer, Philadelphian, Liverpool, 2,003 bags.
 Linder & Meyer, Armenian, Liverpool, 2,003 bags.

PHILADELPHIA IMPORTS.

For the Week Ended May 31, 1902.

Paper.

Order, Tropic, Hamburg, 27 cs. colored, 11 bs., 26 cs.
 Order, Rauma, Rotterdam, 171 bs. and 59 reels.

Rags, Paper Stock, Etc.

Order, Eagle Point, London, 48 bs. old papers.

Wood Pulp.

Jessup & Moore Paper Company, Rauma, Rotterdam, 731 bs.

Bleaching Powder.

O. S. Janney, Rauma, Rotterdam, 128 drums.

Testing Paper in Germany.

W. Herzberg, in a report on the work of the Public Paper Testing Office, gives some particulars of the rejections of normal papers on account of insufficient elasticity. He points out that the complaints come chiefly under the class 2a, 3a and 4a, the paper being made from bleached fibre. The differences, however, may be considered trifling, as in seventy-three cases out of seventy-seven they were under 0.5 per cent. One sample was found to fall considerably below the conditions covered by class 3a, the average tearing length being 3,675 instead of 4,000; elasticity 2.4 per cent instead of 3 per cent; resistance against crumpling fairly good instead of good; ash contents, 9 per cent. instead of 5 per cent.; fibre, 85 per cent. of chemical wood pulp and 15 per cent. cotton instead of 25 per cent. chemical wood pulp. In one instance a buyer rejected, ten months after delivery, writing paper without watermark for which conditions of class 3a had been stipulated. The buyer was under the impression that it contained less than 50 per cent. rags, but the paper maker certified that it contained 45 per cent. linen, 26 per cent. cotton, 23 per cent. wood pulp (chemical), 6 per cent. straw pulp (chemical). An examination showed 35 per cent. linen, 35 per cent. cotton, 25 per cent. chemical wood pulp and 5 per cent. straw, thus confirming the paper maker's view that the total of rags and chemical fibres was correct. In regard to resistance to crumpling most of the complaints were in class 4a, 4b and 3b, and to a lesser extent 3a, 2b and 2a. In a table dealing with the papers examined it appears in the year 1893 the number was 497, of which a percentage of 9.9 per cent. was rejected on account of too small a resistance combined with other faults; in 1894 the number of examinations was 458, and the rejections 3.1 per cent.; 1895, examinations 437, rejections 10.5 per cent.; 1896, examinations 763, rejections 14.8 per cent.; 1898, examinations 622, rejections 17.8 per cent.; 1899, examinations 806, rejections 20.2 per cent.; 1900, examinations 853, rejections 17 per cent.

Lumber and Paper.

The Littlefield & Plummer Corporation, Portland, Me., has been incorporated with a capital stock of \$150,000. It will deal in lumber and paper. Promoters: Henry E. Plummer, George H. Plummer, Hadley B. Jones, E. Russell Moulton, William B. Litchfield, Charles A. Littlefield, Lynn.

A. G. ELLIOT & CO.PAPER
 PHILADELPHIA, PA.

Correspondence solicited with manufacturers desiring Philadelphia outlet.

FELIX SALOMON & CO.

Morse Building.
140 NASSAU STREET, NEW YORK.
 Importers of and Dealers in all Grades of Rags, Paper Stock, Etc.

T-LEPHONE CALL,
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HEADQUARTERS FOR HAIR FELT, MINERAL WOOL,
 ASBESTOS PAPERS, BRINE PIPE COVERINGS, ETC.

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CHINA CLAY IMPORTERS,
SPRINGFIELD, MASS.

Sole Agents for the... **L. G. V., W. F.,** and other Brands of **CHINA CLAY.**

L. G. V. is a natural Pure White, free from any artificial tinting. For Coating, Bleaching or Fine Papers it is unsurpassed.

SALOMON BROS. & CO.,

Formerly FELIX SALOMON & CO.
Importers of All Grades of Rags and Paper Stock,
 REPRESENTING
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 GEBR. SALOMON, Hanover, Germany.

THE GENERAL ELECTRIC COMPANY
GENERATORS AND MOTORS

Of all sizes. Main Office, SCHENECTADY, N. Y.

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Chemical Experts and Engineers.

A. D. LITTLE, Specialists in the Chemistry of Cellulose, Wood Pulp Processes, Paper Making and Electro-Chemistry.
 W. H. WALKER.

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BOSTON, MASS.
 Manufacturers of **Alum.**

Highest tests, free from iron, and all other grades used by paper makers.

Also Manufacturers of ACETIC ACID, SULPHURIC ACID and other chemicals.

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Foreign and Domestic Paper Stock
and New Cuttings, Jute Stock, Sizing,
Sulphite and Soda Pulps.

U. S. Agents for ST. JOHN SULPHITE PULP CO., Mispec, N. B.

MARKET REVIEW.

Office of THE PAPER TRADE JOURNAL, WEDNESDAY, June 4, 1902.

FINANCIAL.—Money on call during the week ruled at 2 1/2 @ 4 per cent. On Monday it ruled at 3 per cent., closing at 3 per cent., with majority of day's loans at 3 1/2 per cent. On Tuesday it ruled at 3 @ 4 per cent., closing at 3 per cent., with the majority of loans made at 3 1/2 per cent. Time money, 4 per cent. for thirty days to four months and 4 1/4 @ 4 1/2 per cent. for five and six months. Mercantile paper, 4 @ 4 1/2 per cent. for sixty to ninety days' indorsed bills receivable, 4 1/2 @ 4 3/4 per cent. for choice four to six months' single names, and 5 @ 5 1/2 per cent. for others. Prices of trade securities on Tuesday were:

Table listing various companies and their stock prices, including American Straw Board Company, American Writing Paper Company, etc.

PAPER.—The New York trade enjoyed a spurt of activity the first half of the week owing to the pile of business that had accumulated over the holiday period. Monday's mail was very heavy at all the houses, as very few places were open since Thursday night of the previous week. The movement in the different grades has therefore been quite heavy this week. The jobbers, however, declare that there is no extra demand for paper represented in the orders received, the stock of them being the natural accumulation of three days. Manilas in small lots moved quite freely this week. With the advent of warm weather the retail trade of the country has improved considerably. This increases the demand for manilas. Prices on the different grades remain unchanged. As has been said before, the great demand for News paper is responsible for the firmness of the other wood papers. Book papers hold the gain they made two weeks ago. For a month or more previous to that time there was some weakness in the Book market. Recently, however, there has occurred a combination of circumstances to stiffen the quotations. The continued strength of soda pulp, the shortage in the coal supply and a few other things have helped to improve the condition of the market. While there has been no special change in quotations, still the old ones have hardened somewhat. The mill end of the Book business is in better shape than the jobbing branch of it. This statement, by the way, also applies to the other grades of paper. News paper continues very scarce, and is, of course, very high in price. The stocks on hand throughout the country are said to be very low indeed. Next to News paper all grades of Boards are the most conspicuous in point of demand. We quote:

Table listing various paper products and their prices, including Bonds, Ledgers, Writing, Superfine, etc.

WOOD PULP.—As far as can be learned there is as yet no weakening in either the demand or in the price of ground wood. This state of the market is, of course, accounted for by the very great strength of the demand for News paper. The quotation on pulp continues fairly firm at about \$15 at mill.

WOOD FIBRES.—Unbleached Sulphite is being offered quite freely in the New York market indicating that the demand for the cheaper grades is not so strong as it might be. The quotation on it ranges from 1 3/4 @ 2c. The bulk of the sales, however, are being made at 1 3/4c. Some of the manufacturers say that they find no great difficulty in getting from 1.85 @ 2c. for Unbleached. For the better grades of Sulphite the market is firm, considering the lateness of the season. In Soda there is no change, the price remaining at 2.05c. We quote:

Table listing various wood fibre products and their prices, including Sulphite, Soda, Unbleached, etc.

BAGGING, Etc.—As far as sales go the market is very quiet, indeed. But in the absence of any business there is some speculation going on as to how long the paper manufacturers, especially those making rope papers, can stay out of the market. In regard to the quotation on Old Rope the dealers say that there is no money in it at 2 3/8 @ 2 3/4c. The buyers, on the other hand, declare that they can get

all they want for 2 1/2 cents. Gunny is firm at 87 1/4c. We quote:

Table listing various rope and twine products and their prices, including Gunny, Foreign, Domestic, Mixed Bagging, etc.

FOREIGN RAGS.—Owing to the lateness of the season the demand for imported rags has fallen off. For New Cuttings there is still some inquiry. Just now it is reported that the paper manufacturers are substituting a few of the domestic grades for those usually brought from the other side. We quote:

Table listing various foreign rag products and their prices, including German Blue Cottons, Dutch Blues, etc.

DOMESTIC RAGS.—The market in rags holds steady. The principal demand is for No. 1 Whites, Soiled Whites, house, and Soiled Whites, street. Satinetses Straight, Hard Back Carpets and Tailors' Seconds are reported a little quiet. Even of these grades there is no surplus on hand. In fact the accumulation of rags on the market is rather small. No. 1 Whites are said to be very scarce. We quote:

Table listing various domestic rag products and their prices, including New Shirt Cuttings, New Light Seconds, etc.

OLD PAPERS.—The good demand continues for Manila Cuttings, and for all grades of old News Papers. Straw Clippings and Straw Boxes are also in very fair demand. White Wood Waste is firm, especially in orders calling for large quantities, as the supply is rather small. Soft White Shavings and Ledgers and Writings are a little slack, but as yet there is no easing off in their quotations. Hard White Shavings and No. 1 Book Stock heavy are both moving well. Of these two there is no accumulation. We quote:

Table listing various old paper products and their prices, including No. 1 Hard White Shavings, No. 2 Hard White Shavings, etc.

TWINES.—The jobbers report that the demand for Twines has eased off considerably. The manufacturers, on the other hand, say that they have a good supply of orders on their books, and that they are, therefore, inclined to continue firm on their quotations. We quote:

Table listing various twine products and their prices, including Sisal Hay, Sisal Lath Yarn, etc.

COLORS.—We quote colors, dyes and mordants as follows:

Table listing various color and mordant products and their prices, including Mineral and Vegetable Colors, Anilines, Mordants, etc.

ULTRAMARINE.—There is a brisk demand for Ultramarine, and prices are held very steady.

CHINA CLAY.—There is a brisk jobbing demand, but large transactions are scarce. Prices are firm. English is quoted at \$12 @ 17.50, and domestic at \$8.50 @ 10.

ALKALI.—The demand has improved, especially for prompt delivery goods. Large buyers are anticipating, wants, being uncertain of the future owing to the coal strike. Prices are very strong. Prompt is quoted at

85 @ 90c. f. o. b. works, while for delivery over the next fire there has been business at 75 @ 80c. f. o. b. works.

CAUSTIC SODA.—The Caustic Soda market is also working into a stronger position, large consumers having increased their calls for goods. Domestic high test has been sold at 1.90 @ 1.95c. f. o. b. works, while for delivery over 1903 transactions have been had at 1.85 @ 1.90c. f. o. b. works.

SAL SODA.—Makers are hurrying goods forward. Prices are unchanged, 65c. less usual discounts ruling here.

BLEACHING POWDER.—There is a fair jobbing demand, and prices are fairly steady at 1.75 @ 2c. for English brands, and 1 5/8 @ 1 7/8c. for Continental brands.

ALUM.—Contract deliveries are of good volume, but new business is quiet. Quotations remain at 1.75 @ 1.80c. for lump, and 1.80 @ 1.85c. for ground.

BRIMSTONE.—The market is bare of spot supplies, and sales are being made from steamers due at \$23. Shipments, June and July, are dull at \$22.25 per ton.

Philadelphia Markets.

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, June 3, 1902.—The holidays of the latter part of last week caused a better movement in paper stock to-day than has been experienced for several weeks. Commons were in lively demand, and large quantities were shipped from the warehouses of stock men to the mills of manufacturers. Quotations are as follows:

Table listing various Philadelphia market products and their prices, including Bonds, Ledgers, Writing, Superfine, etc.

Table listing various bagging products and their prices, including Gunny, Foreign, Domestic, Mixed Bagging, etc.

Table listing various old paper products and their prices, including Shavings, No. 1 Hard White, No. 1 Soft White, etc.

Chicago Markets.

Western Publication Office THE PAPER TRADE JOURNAL, 936 Monadnock Building, CHICAGO, June 2, 1902.

There has not been a great change in the prices or the demand this week. The market on paper stock is still rather slow, and prices are up to the average rate. Quotations were:

Table listing various Chicago market products and their prices, including Bonds, Ledgers, Writing, Superfine, etc.

Table listing various bagging products and their prices, including No. 1 Whites, No. 2 Whites, etc.

Table listing various old paper products and their prices, including Shavings, No. 1 Hard White, No. 1 Soft White, etc.

Among the questions agitating the industries connected with paper and printing in France just now is the proposed interdiction of the general use of paper bearing as a ground tint the French national colors, red, white and blue. It is expected that the privilege of using this for printing purposes will in the end be confined to the Government. The wholesale stationers and printers have, however, a considerable stock of this paper on hand, valued at \$12,000, and a sort of promise has been made that in the event of the measure becoming law the Government will take the whole of it over at the full price.

THE MATHIESON ALKALI WORKS,
Saltville, Va.

GASTNER ELECTROLYTIC ALKALI CO.
Niagara Falls, N. Y.

"EAGLE-THISTLE" BRANDS
BLEACHING POWDERS

HIGH TEST.

Packed in Steel Drums, air tight, insuring full strength at point of consumption.

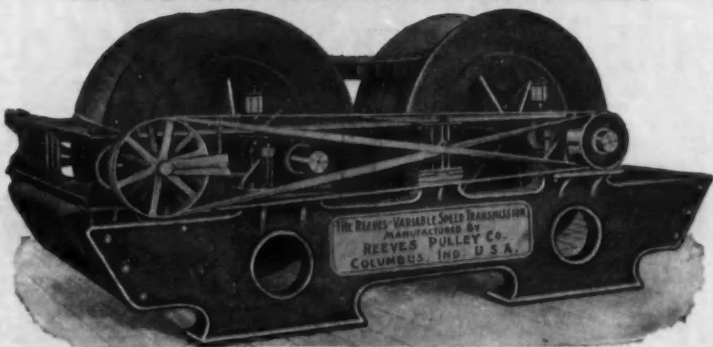
	<p>SODA ASH. 48 per cent. and 58 per cent.</p> <p>CAUSTIC SODA. 60 per cent., 70 per cent., 72 per cent., 74 per cent., 76 per cent.; also 78 per cent. Our 78 per cent. Caustic Soda is an article of greater purity than has ever before been produced in a commercial way, analyzing 99.70 Hydrate of Soda.</p> <p>BICARBONATE OF SODA. Packed in Kegs, Barrels or Bags, also Cases.</p>	
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"THE REEVES"
VARIABLE SPEED TRANSMISSION

is the ideal device for REGULATING THE SPEED OF THE PAPER MACHINE. Accurate, Sensitive, Positive, Compact. Entire range of speed may be obtained while machine is running.



We have placed this Transmission with, or are at present time building it for, about fifty paper mills of the United States. Your mill will turn out more paper when equipped with

"The Reeves" Variable Speed Transmission.

Let us figure with you.

We also manufacture

"The Reeves" Wood Split Pulley,

the recognized standard belt transmission wheel of the world. We furnish these in sizes from 1 inch to 32 feet in diameter, any width of face, any bore. Our specialty is large Pulleys—"rush" orders. Try us.

REEVES PULLEY CO., Columbus, Ind.

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DIGESTERS

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Short Cooking.

Good Results and Absolute Reliability.

E. MEURER'S PATENT.

The only absolutely reliable Digester.
The only Digester which will work satisfactorily from the start.
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The cheapest Digester in the long run.
All so-called "cement" linings will be found on investigation to be unreliable and to need constant repairs.

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ROLLS OF ALL KINDS

CHILLED OR SOFT IRON, COPPER, BRASS, RUBBER, PAPER OR FIBRE ground to perfect accuracy by the "POOLE" process.

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ROLL GRINDING,

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NEW CHILLED ROLLS of unequalled hardness and finish furnished.

THE J. MORTON POOLE CO., Wilmington, Del.

ESTABLISHED 1832.

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MANUFACTURER OF ALL STYLES OF

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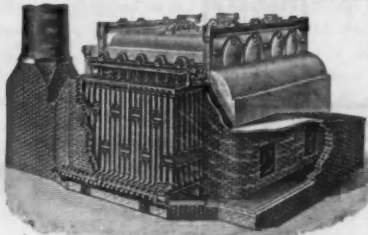
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Also Cardboard Machinery, Hilbers, Staib and Waldron Patent Hanging-Up Machines, Patent Power Reeling Machines for Coated Papers and Cardboard. Embossing Machines, Paper Rolls, Polishing Machines, &c. Machinery is Universally Used by the Manufacturers of Above Goods in the United States and Canada.

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"Our first purchase was in 1870, since that time we have equipped our other steam plants, a dozen in all. Consider them a good investment."

"Have used continuously since 1877 three Green's Economizers. Consider them good for 25 years more."

"Nineteen years' use of your Economizers without stopping for repairs."

"We are constantly getting from 250 to 250 de. rees temperature in our feed water."

"Our records show 112 1-2 tons of coal used the week the Economizer was in operation, against 136 1-2 without it."

Many other similar testimonials in our free booklet, "Green's Economizer."

The Green Fuel Economizer Co.,

Sole Manufacturers in the U. S. A.

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ALL TYPES PAPER MILL MACHINERY.

High Grade in Every Respect. Embodying all Late Improvements.

WET MACHINES, STUFF PUMPS, WATER PUMPS, FINISHING CUTTERS, BUNDLE CUTTERS, Etc.

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IMPROVED "LEADER" SCREEN. BEST IN THE MARKET. Write for information

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BELOIT, WIS., U. S. A.

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Gas and Gasoline Engines.

We manufacture machines for making Square and Flat Bags, Satchel Bottom Bags, Flour Sacks, Shirt, Hat, and Millinery Bags, Nail Bags, from the Roll, and turning out bag complete at one operation.



THE NATIONAL MANUFACTURING CO.,

Manufacturers of PAPER BAG DRYERS, PAPER BAG MACHINERY, also GAS and GASOLINE ENGINES.

Correspondence Invited.

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STEEL PENSTOCKS AND DIGESTERS.

Smokestacks, Tanks, Buildings, Corrugated Iron, Blast Furnaces, Gas Holders, Oil Refineries.

HEAVY PLATE AND STRUCTURAL WORK OF ALL KINDS.

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Valves for Sulphite Pulp and Paper Mills.



For this work we manufacture valves with phosphor bronze disk holders and removable seats. These being made of acid resisting metal, and fitted with Jenkins Disks of a special compound, the valves are better adapted for the severe service, and can be repaired at small cost without the loss of the valve. We especially recommend our Y and Angle Valves for use on pulp digesters and other severe places.

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WORCESTER, MASS.

Builders of the Highest Grade of Fourdrinier and Cylinder

Paper Machines and Pulp Drying Machines

Calender Rolls; Stuff, Suction and Fan Pumps; Hill Patent Diagonal Cutters; Patent Top and Double Edged Sitters.

New Improved Patented Vertical Single Drum Winder and Rewinder, Wet Machines of Increased Capacity, Etc.

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Water Tube Boilers.

Shops at Phoenixville, Pa.; St. Louis, Mo., and Chicago, Ill.

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SEND FOR OUR BOOK "STEAM"

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OUR SPECIALTY:

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Paper Cutters.

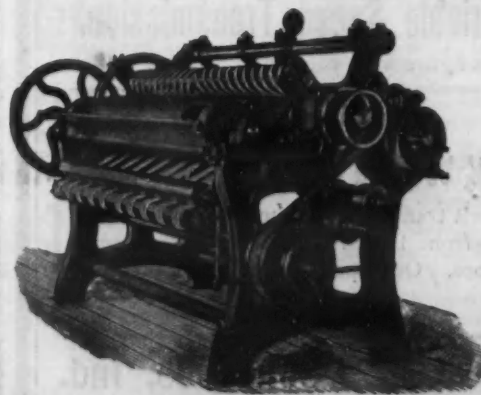
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Successors to

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LATEST IMPROVED CUTTER.

Lobdell Car Wheel Co.

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... Manufacturers of ...

Chilled Rolls

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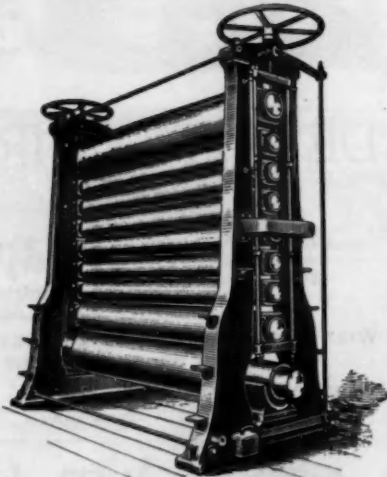
Rubber, Brass, Copper, Flour, Oil and Ink Mills, &c.

Manufacturers of

Grinding Machines for Rolls of all Sizes.

CALENDERS

furnished complete with Patent Open Face Housings, Open End Housings or Ordinary Style Housings.



OPEN END BOX HOUSINGS.

SCAIFE WATER FILTERS

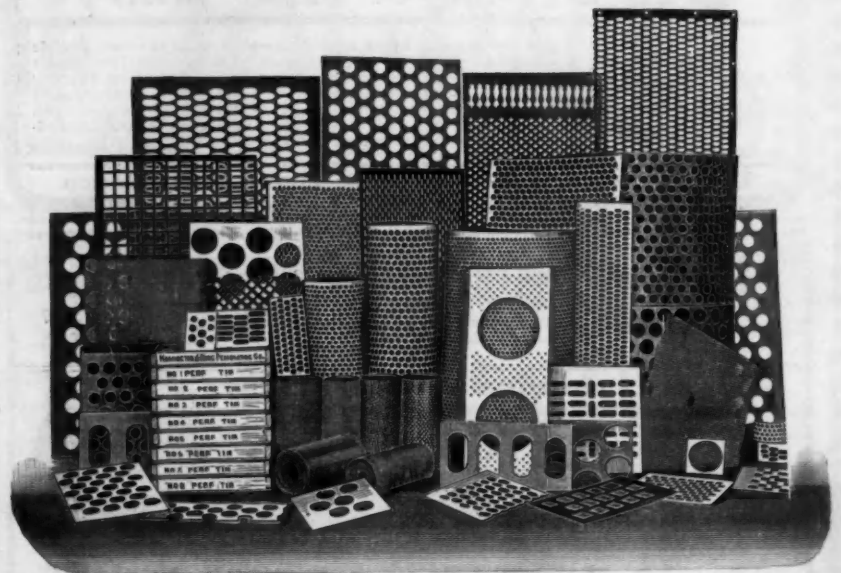
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HIGHEST EFFICIENCY.
LOWEST PRICES.
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SCAIFE SYSTEM
WATER SOFTENING AND PURIFYING.
For Steam Boilers and Every Other Purpose.
90 to 97 per cent. of Scale Forming Ingredients removed.
ALL SULPHURIC ACID NEUTRALIZED BEFORE WATER ENTERS THE BOILERS.
Guaranteed Results. Illustrated Catalogue.

WM. B. SCAIFE & SONS CO., PITTSBURGH, PA.
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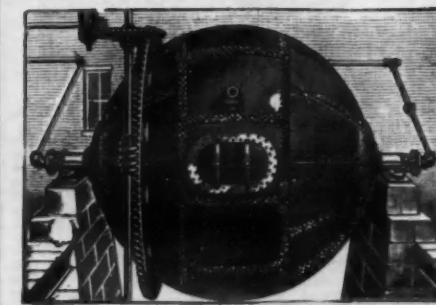
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For Paper and Pulp Mill Screens.

USED IN ...
DRAINER BOTTOMS, PULP SCREENS, WASHERS, SUCTION BOX COVERS, BUTTON CATCHERS, FILTER PLATES,
VATS AND TANKS, SAND TRAPS, STRAINERS, BOILERS AND DIGESTERS, SHOWER PIPES, ROLLS, FALSE BOTTOMS, Etc.

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AKRON, OHIO.
MANUFACTURERS OF
Rotary Globe and Cylinder BLEACHING BOILERS
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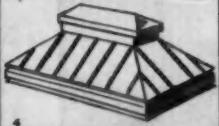
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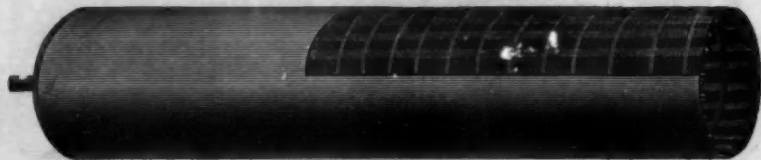
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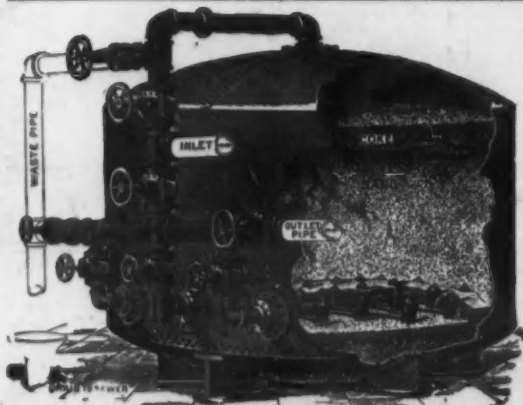
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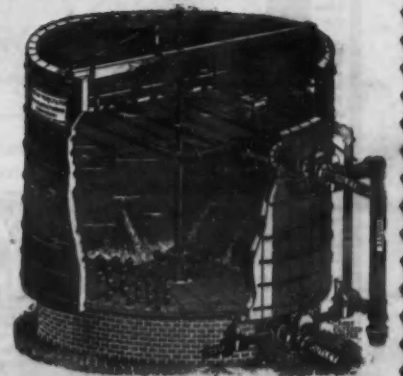
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