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# PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY.

ESTABLISHED IN 1872

Vol. LXX. No. 7

NEW YORK AND CHICAGO, FEBRUARY 12, 1920

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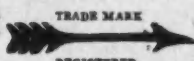
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# PAGE 19!



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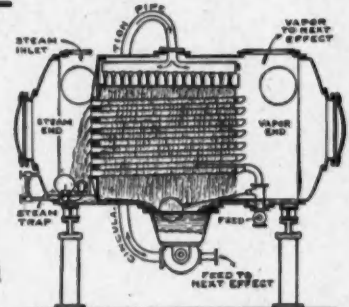
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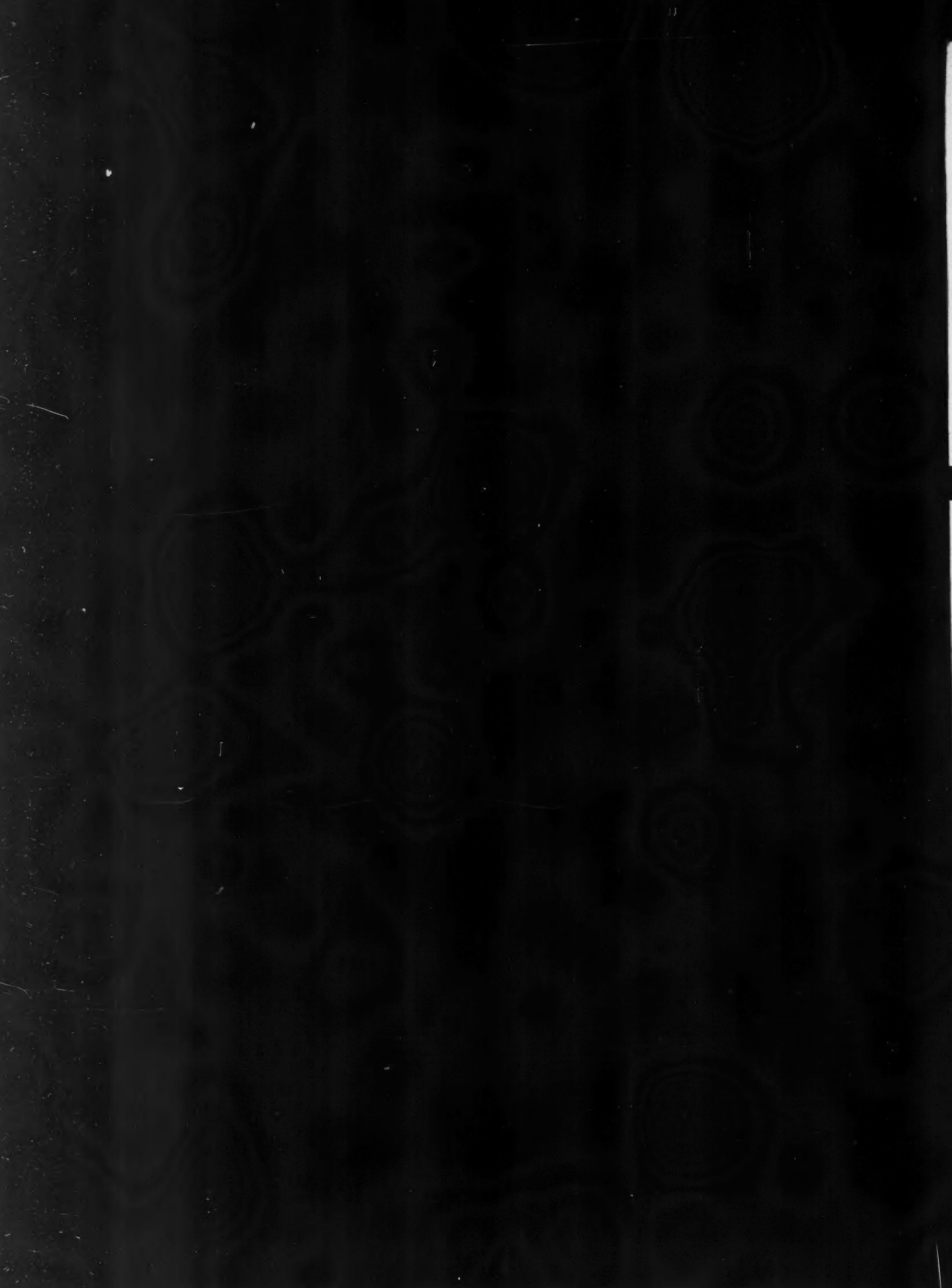
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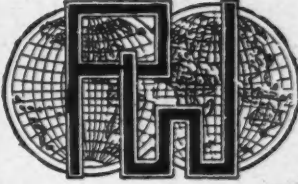
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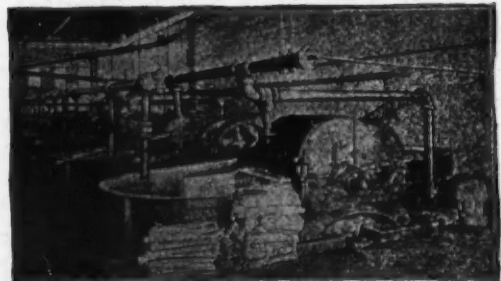
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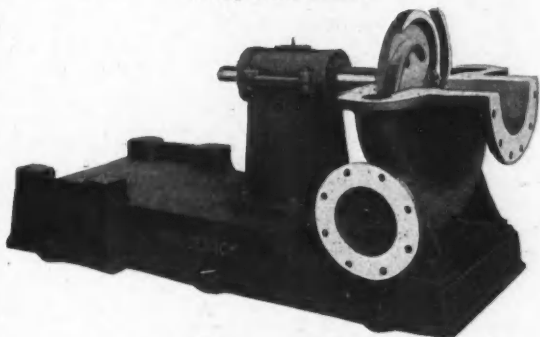
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# PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY

## FORTY-EIGHTH YEAR

PUBLISHED EVERY THURSDAY BY THE

**LOCKWOOD TRADE JOURNAL COMPANY, INC.**

LESLIE R. PALMER, President

J. W. VAN GORDON, Vice-President

Telephone **2380**  
**2381** } Vanderbilt  
**2382** }

10 EAST 39TH ST., N. Y., U. S. A.

Cable Address: Catchow, New York

Western Publication Office—431 S. Dearborn Street, Chicago  
New England Office—Room 46, 127 Federal Street, Boston

Washington Office—L. M. Lamm, 63 Home Life Bldg.  
Western New England News Office—A. W. Anders, Holyoke  
London Office—Stonhill & Gillis, 58 Shoe Lane

*The PAPER TRADE JOURNAL is the pioneer publication in its field, and has for many years been the recognized Organ of the Paper and Pulp Industry. Its circulation is greater than the combined circulations of all other publications in the field. Entered at New York Post Office as second-class mail matter.*

### Terms of Subscription

UNITED STATES AND MEXICO.....Per year, \$4; 6 months, \$2; 3 months, \$1  
CANADA AND FOREIGN COUNTRIES IN POSTAL UNION.....Per year, \$6  
SINGLE COPIES.....10 cents

### Other Publications of Lockwood Trade Journal Company, Inc.

AMERICAN STATIONER AND OFFICE OUTFITTER (Weekly).....Per year, \$2  
LOCKWOOD'S DIRECTORY OF THE PAPER, STATIONERY AND ALLIED TRADES (Annual).....Per copy, 25

Vol. LXX. No. 7

NEW YORK AND CHICAGO

Thursday, February 12, 1920

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## MATTERS IN WASHINGTON OF INTEREST TO PAPER MEN

Representative Hull, of Tennessee, Introduces Bill to Amend the Revenue Laws in Connection with Paper—Senator Curtis, of Kansas, Suggests Amendment to Bill Which Has Been Incorporated As a Rider and Which Changes the Price on Print Paper in the Present Revenue Law Subject to Import Duty from 5 Cents to 8 Cents—Other Washington News.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., February 10, 1920.—Representative Hull, of Tennessee, has introduced a bill in the House which has been referred to the Committee on Ways and Means to amend the revenue laws in connection with paper. The bill is as follows:

That section 600 of the Act approved September 8, 1916, entitled "An Act to increase the revenue, and for other purposes," be amended so as to read as follows:

"Sec. 600. Printing paper (other than paper commercially known as handmade or machine handmade, Japan paper, and imitation Japan paper by whatever name known), unsized, sized, or glued, suitable for the printing of books and newspapers, but not for covers or bindings, not specially provided for in this section, valued above 8 cents per pound, 12 per centum ad valorem: *Provided, however,* That if any country, dependency, Province, or other subdivision of government shall impose any export duty, export license fee, or other charge of any kind whatsoever (whether in the form of additional charge or license fee or otherwise) upon printing paper, woodpulp, or wood for use in the manufacture of woodpulp, there shall be imposed upon printing paper, values above 8 cents per pound, when imported either directly or indirectly from such country, dependency, Province, or other subdivision of government, an additional duty equal to the amount of the highest export duty or other export charge imposed by such country, dependency, Province, or other subdivision of government, upon either printing paper or upon an amount of woodpulp or wood for use in the manufacture of woodpulp necessary to manufacture such printing paper.

"Printing paper (other than paper commercially known as handmade or machine handmade paper, Japan paper, and imitation Japan paper by whatever name known), unsized, sized, or glued, suitable for printing of books and newspapers, but not for covers or bindings, not specially provided for in this section, valued at not above 8 cents per pound, decalcomania paper not printed."

Sec. 2. That this Act shall expire by limitation at the end of two years from the date of its passage, and section 600 of the Act approved September 8, 1916, entitled "An Act to increase the revenue, and for other purposes," shall again become operative in its stead.

### Amendment to Paper Bill

Senator Curtis, of Kansas, a member of the sub-committee of the Senate Finance Committee, which has the Longworth dyestuff bill under consideration has suggested an amendment to the bill which has been incorporated by the sub-committee as a rider which changes the price on print paper in the present revenue law subject to import duty from 5 cents to 8 cents.

There is quoted below "Title VI—Printing Paper" of the revenue law of 1916 which amended the revenue law of 1913. The Curtis amendment is exactly like the sections quoted except that Senator Curtis' amendment has "8 cents" in place of "5 cents."

"Sec. 600. That paragraph 322, Schedule M, and paragraph 567 of the free list of the Act entitled 'An Act to reduce tariff duties and to provide revenue for the Government, and for other purposes,' approved October 3, 1913, be amended so that the same shall read as follows:

"322. Printing paper (other than paper commercially known as handmade or machine handmade paper, Japan paper, and imitation Japan paper by whatever name known), unsized, sized, or glued, suitable for the printing of books and newspapers, but not for covers or bindings, not specially provided for in this section, valued above 5 cents per pound, 12 per centum ad valorem: *Provided, however,* That if any country, dependency, province, or other subdivision of government shall impose any export duty, export license fee, or other charge of any kind whatsoever (whether in the form of additional charge or license fee or otherwise) upon printing paper, woodpulp, or wood for use in the manufacture of woodpulp, there shall be imposed upon printing paper, values above 5 cents per pound, when imported either directly or indirectly from such country, dependency, province, or other subdivision of government, an additional duty equal to the amount of the highest export duty or other export charge imposed by such country, dependency, province, or other subdivision of government, upon either printing paper or upon an amount of woodpulp, or wood for use in the manufacture of woodpulp necessary to manufacture such printing paper.

"567. Printing paper (other than paper commercially known as handmade or machine handmade paper, Japan paper, and imitation Japan paper by whatever name known), unsized, sized or glued, suitable for the printing of books and newspapers, but not for covers or bindings, not specially provided for in this section, valued at not above 5 cents per pound, decalcomania paper not printed."

### Extends Duty Exemption on Paper

The State Department is in receipt of a report of Trade Commissioner H. C. MacLean, at Rome, Italy, stating that the Government has extended for several months after January 1 the exemption of duty on news print paper.

In October of last year the Department was notified that white news print paper in rolls would be admitted free of duty into Italy until January 1, 1920. As the paper situation in Rome had not improved the Trade Commissioner got in touch with the Director of Customs to ascertain whether the exemption of news print paper from the payment of duty would be continued after the date originally set. He was informed that while the necessary decree in this connection had not been signed it was certain that the provision in the decree of October would be extended for several months.

### Bureau of Standard Plans

The Bureau of Standards of the Department of Commerce has taken a step of utmost importance to American industry in perfecting an arrangement whereby a direct contact may be established between the Bureau and American manufacturing concerns.

During the war the Bureau held its work secret because of the importance of its military assignment.

Under the plan which has been worked out, a manufacturing company may send to the Bureau of Standards for as much as a year one of its own technical men. The private company, of course, shall pay the man's salary and the cost of the base materials he uses, but no charge is to be made for the use of the laboratories, apparatus and scientific equipment of the Bureau or for the assistance to be rendered by the Government experts.

Manufacturers having specially perplexing scientific and technical problems are expected to avail themselves of this privilege. The technical man who is most familiar with the problem will be installed at the Bureau and can have the aid and experience of the Government and experts and the Bureau's equipment in solving the problem.

The Attorney General has rendered an opinion that where these outside men, working with the aid of the Bureau's staff, perfect devices or processes susceptible of patent protection, letters patent may issue even though the work has been done in a Government establishment, however, this patent right must be shared so far as use and manufacture for purely Government use is concerned.

## GREAT INTEREST IN CANADA IN SEN. UNDERWOOD'S BILL

**Dominion of Canada Has No Power in Matter and Public Sentiment in Favor of the Embargo Is So Strong That There Is Little Likelihood of Its Being Lifted—Idea That American Holders of Canadian Limits Are Being Treated Badly Is Erroneous—Laurentide Makes Plans for Reorganization—Whalen Pulp and Paper Mills to Erect \$4,000,000 Mill.**

(FROM OUR REGULAR CORRESPONDENT.)

MONTREAL, Que., February 9, 1920.—Extraordinary interest has been aroused in Canada by the Underwood resolution introduced at Washington for the purpose of inducing Canada to lift the embargo on pulpwood on Crown lands, and, failing of success, to report what measures of retaliation might be adopted by the United States to force Canada to lift the embargo.

As this question is not very well understood in the United States, it might be well to explain that the Dominion of Canada has no power in the matter and that public sentiment in favor of the embargo is so strong that there is little likelihood of the embargo being lifted under any consideration. Your correspondent has obtained the following statement on the subject from one of the leading authorities on the pulp and paper question in Canada:

"This campaign by Mr. Underwood is being undertaken in the interests of the publishers of the United States, but as a matter of fact, if it were to succeed, it could gain for those publishers nothing but higher manufacturing costs. It would not increase the production of news print in the United States, because the news print mills there are already running to capacity. There is no excuse for transporting Canadian pulpwood to some town in the United States in order to make it into news print, because it could be made into news print cheaper on the spot. It takes practically one hundred horse-power to make a ton of news print. When water-power is advantageously located in the United States it is very valuable; but in Canada the water-powers which are situated near the base of supply of pulpwood, are only of value for grinding wood and consequently they are cheap.

### The Provinces Are Supreme

"The Underwood resolution assumes that the Dominion of Canada has some say in the matter. This is a mistake. The only four provinces which produce pulpwood in quantity are Ontario, Quebec, Nova Scotia, and New Brunswick. These provinces have complete control of their natural resources. British Columbia also has complete control, with the exception of some areas adjacent to railways, which areas are governed by the Dominion, but which are not very big pulpwood-bearing lands. This whole movement is aimed at Quebec, where some American companies own timber limits, and therefore the position of the Quebec government in the matter is the one on which the situation hinges. At last week's meeting of the Canadian Pulp and Paper Association, Sir Lomer Gouin, premier of the Province of Quebec, made a declaration on pulpwood to the effect that the Quebec government intended to conserve the pulpwood of the province for mills established within the province, and to this end intended to extend the restrictions on the export of pulpwood. This statement of the premier's was taken to mean that the government intended to put at least a partial restriction on the export of pulpwood from private lands.

### Lease Confers No Vested Right

"Then, again, it seems to be assumed that the American holders on Canadian Crown land have vested rights established thereby. That is not correct. The province of Quebec is entitled to insist upon the manufacture within its borders of its own natural prod-

ucts, and has the power to prohibit exports of its raw products altogether. This statement is based on the fact that all the leases contain a provision that they are subject to whatever regulations the government may see fit to impose. They are also subject to arbitrary cancellation at the end of given periods.

### The Present Exports

"A glance at the export figures does not indicate that Canada is deliberately starving the United States of pulpwood. Notwithstanding the restrictions, Canada has exported to the United States during the period of 1910 to the end of 1918 no less than 9,137,710 cords of pulpwood, valued at \$59,790,807. For the first eight months of the current fiscal year, Canada has exported 631,941 cords, valued at \$4,525,324.

"It could be shown that the amount of wood permitted to be exported under the present regulations is more than sufficient to cover the annual growth upon all the pulpwood lands at present controlled by American interests. All the latter claim is the right to get all the annual growth, and more than that is now being shipped into the United States.

### Can Sell at Big Prices

"The idea that the American holders of Canadian limits are being treated badly will not hold good for a moment. They secured these timber limits at a time when the price paid for them was about \$110 per square mile. The limits have since risen in value between \$400 and \$500, and some last year sold as high as \$2,000 per square mile. The American holders of limits in Canada could easily market them at the present time and make a good profit on their investment.

"Looking at the question from the broader point of view, attention may be drawn to the fact that Canada is one of the largest customers of the United States, if not the largest, at the present time. There is a trade balance in favor of the United States of between 300 and 400 million dollars per annum. The manufacture and export of news print is one of the few means Canada has of reducing the adverse balance of trade against her, and it is not to be thought that the United States would use a big stick for the purpose of forcing Canada to abandon her position in this respect at the demand of any single interest.

"It may be added that the government of the province would be reluctant to interfere with the rights of the various American companies who have built paper mills in the province, which rights, it holds, include a first demand on the pulpwood resources of the province. It would be hardly fair to them, after having come here to establish expensive mills, to permit pulpwood to be sent out without any check whatever to competitors who have made no capital outlay in the province."

### Laurentide Reorganization

The special general meeting of the shareholders of Laurentide, Limited, held in Montreal during the week, to consider the reorganization plans laid down by the directors in the form of by-laws, was attended by shareholders representing 54,925 shares, all of which voted in favor of the plan without a dissenting vote.

The plan, as laid down, calls for the taking over of the assets, plants, etc., of Laurentide, Limited, as a going concern, by the newly-incorporated company, Laurentide Company, Limited, capitalized at \$35,000,000. The stock of the new company will be distributed to holders of the stock of the old company in the proportion of three new shares for each one of old now held, and it is understood that the distribution of the stock of the new company will be distributed immediately the old stock is turned over to the Royal Trust Company, who have charge of the operation.

In speaking of the plan, George Cahoon, Jr., president of the company, who occupied the chair, pointed out that the extension of the organization was one that was necessary from the point

(Continued on page 18)

## GREAT INTEREST IN CANADA IN SEN. UNDERWOOD'S BILL

(Continued from page 17)

of further development. He said that the company was a rapidly-growing one and that operations were being further extended and that the present plan, when adopted, would go far towards allowing for this expansion.

There were no questions of any special significance asked, with the exception of one, by a shareholder, who wished to know how the position of the Laurentide Power Company would be affected by the change. In reply, the president stated that the new company would continue to retain all of Laurentide's holdings in the power company, so that the status between the two organizations would not be altered at all.

There was also a question by a shareholder regarding the rate of dividends on the new stock. It was pointed out by the president that no consideration had yet been given this matter by the board of directors, inasmuch as the time was not yet opportune for the determination of distributions to shareholders on this news-stock.

### Another Whalen Paper Mill

George F. Whalen, of the Whalen Pulp and Paper Mills, British Columbia, announces that a four-million-dollar paper mill is to be erected at Port Angeles, Wash., to use British Columbia pulp, and will be in operation by next fall. The money is largely from United States capitalists. Mr. Whalen states that the demand for pulp from British Columbia is very strong and increasing rapidly. The Canadian directors of the company are James Whalen and George F. Whalen.

### Expansion of Provincial Paper Co.

I. H. Weldon, president of the Provincial Paper Mills, announces that his company has acquired land adjoining each of the present plants at Thorold, Mille Roches and Port Arthur, and at each of these points will build additional mills, each building being planned to accommodate two machines. One machine will be installed along with the construction of each building and further machines as conditions warrant, making in all six additional machines with a total tonnage of not less than 120 tons, making with the present production 200 tons per day. Plans and specifications for the first additional plant have just been completed. This plant will be fully equipped with the most modern machinery available and will have a capacity of about 20 tons daily, of either book, writing or bond papers. This plant will be rushed to completion as soon as weather conditions permit, and as rapidly as the Canadian market consumes this increased tonnage, the company will proceed with the installation of further machines, until it has rounded out its plans as above outlined.

### Price Bros.' New Machinery

John Wolstenholme, a director of Charles Walsley & Co., Limited, the English paper machine manufacturers, has just sailed on his return to England. Before he sailed he stated that he had had a busy time in connection with the installation of the monster 232-inch machines for the Abitibi Company, and the planning for the new mill with its six new specially designed paper machines at Price Brothers new mill in their new town to be built at Saguenay. Number 5 machine at Price Brothers, Kenogami mill, he remarks, should be in operation in April, and numbers 5 and 6 at Abitibi should be turning out paper in October. The six machines for the mill at Saguenay will be 160 inches, which seems to be adopted as a standard size by Price Brothers. To accommodate the enormous pieces of machinery required for these new machines, as well as to handle the other items of manufacture incidental to the construction of the paper machines, Mr. Wolstenholme says that the capacity of both the Atlas Works and the branch on Wood street, in Bury, England, will be doubled. This extension is going forward rapidly at the present time.

Mr. Wolstenholme said that the new machines would have the

most up-to-date features and would be designed from a mechanical standpoint of operating at 1,000 feet per minute.

### The Government Control of News Print

A study of the Order-in-Council, transferring paper control in the Dominion to the Board of Commerce, has left newspaper manufacturers here quite puzzled. For instance, the order is effective "until the publication of a proclamation by the Governor-General in Council under the authority of the War Measures Act, 1914, declaring that war no longer exists." How the government will interpret the occasion for such a declaration is a mystery, but obviously the Board of Commerce may wake up any morning and find that its powers no longer exist. Then again, the Board of Commerce is given power over "all provisions of law as to the jurisdiction of courts," which, in conjunction with other phrases in the order, may mean that the Paper Control Tribunal is superseded, and the manufacturers thus deprived of an appeal court.

### New Paper Felt Industry

The English firm of Porrits & Spencer, Bury, England, has decided to establish a branch in Hamilton for the manufacture of felts for paper-making machinery. The company, which will manufacture for export as well as for the Canadian market, has been capitalized at \$1,000,000, and the site and plant is said to represent an outlay of \$600,000. Canadian wool will be used in the manufacture of the felts.

### Abitibi's New Installation

The Abitibi Power and Paper Company has just accepted delivery at Iroquois Falls of a 196,000-pound locomotive, for hauling supplies to the Abitibi mills. The company is also installing five Toledo built-in automatic dial scales. Each scale has a total capacity of 2,800 pounds.

### Board of Commerce Starts Paper Control

The Board of Commerce, which has been charged by the Government with the control of the news print industry, has got down to business quickly. It has issued peremptory orders on various news print companies to supply certain Canadian publishers with news print, at not more than \$80 per ton. If these orders are obeyed there will be no more difficulties with the domestic supply—that is for the time being. If they are not obeyed, then the whole controversy will be precipitated into a more bitter dispute than ever.

Will the orders be obeyed? Some say yes, and some say no.

In Asquith's phrase, we shall have to "wait and see." The first order has been on the Abitibi Company, of Montreal, on whom the Board of Commerce has made the demand that it shall assist in the supply of newspapers on the prairies. The company is ordered to send one carload of news print every four weeks to the Toronto Type Founders Company at Regina, at \$80 per ton f. o. b. Price Bros. & Co., have been ordered to send from their mills in Quebec Province one carload per week to each of the following publishers: The Montreal Star Publishing Company, the Montreal Herald Publishing Company, and Poirier Bassett & Co., all of Montreal. The company is prohibited from selling news print for shipment to any destination in Canada at a higher price than \$80 per ton. The company, so the order states, is only shipping 2,500 tons per annum to Canadian concerns. In future they are ordered to ship at the rate of 11,250 tons per annum. The Board holds that the company is withholding from sale and accumulating at its plant more than a "reasonable quantity" of news print, which commodity is declared a necessity of life under the Combines and Fair Prices Act. The company is therefore prohibited from so accumulating news print and withholding it from sale. The company is ordered to commence shipping its quota to Canadian publishers not later than February 10, 1920.

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## BIDS AND SPECIFICATIONS FOR GOVERNMENT PAPER

**Purchasing Officer of the Government Printing Office Opens Bids on Various Lots of Paper—Purchasing Officer of the Government Office Makes Awards on Several Lots of Paper for Which Bids Were Opened Recently—Purchasing Officer of the Panama Canal Receives Bids for Several Lots of Paper—Bids and Awards for Paper for Other Departments of the Government.**

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., February 10, 1920.—The Purchasing Officer of the Government Printing Office will open bids on February 13 for 77,000 lbs. (1,000 reams) of 38 x 77 of white rag machine finish printing paper.

### Government Printing Office Awards

The Collins Manufacturing Company has been awarded the contract by the Purchasing Officer of the Government Printing Office for furnishing 8,800 pounds (200 reams) of 19 x 24 No. 36 blue wove commercial ledger paper at \$.26 per pound.

The Whitaker Paper Company will furnish 7,200 pounds (200 reams) of 21 x 32 No. 20 pink writing paper at \$.165 per pound. Bids for these items were opened on January 28.

The Purchasing Officer of the Government Printing Office has announced the following awards:

The Lanston Monotype Company will furnish 15,000 pounds of monotype keyboard paper at \$.15 per pound, bids for which were opened on January 14.

The King Paper Company will furnish 40,200 pounds (600 reams) of double coated book paper at \$.13 and \$.16½ per pound, bids for which were opened on January 23.

28,000 pounds of wood manila paper, 25 x 38—56, will be furnished by the Mathers-Lamm Paper Company, at \$.092 per pound and the same firm will also furnish 40,000 pounds of the same in 21-inch rolls, at \$.0835 per pound. Philip Lindenmyr & Sons will furnish 6,300 pounds of 24 x 38—63, rope manila paper at \$.145 per pound.

Dobler and Mudge have been awarded the contract by the Purchasing Officer of the Government Printing Office for furnishing 8,750 pounds of 22½ x 28½—175 white index bristol board at 22 cents per pound. Bids for this item were opened on January 31.

### Panama Canal Paper Awards

The Purchasing Officer of the Panama Canal has received the following paper bids:

100 reams (50,000 sheets) of 22½ x 28½—100, of white index bristol cardboard; Dobler and Mudge, at \$3,990.00; Old Dominion Paper Company, at \$2,794.00 and \$2,249.00; and R. P. Andrews Paper Company, at \$2,790.00.

200 reams (100,000 sheets) of 17 x 22 No. 24 white ledger paper; Dobler & Mudge, at \$1,910.00; George W. Millar & Co., at \$1,880.00; Old Dominion Paper Company, at \$1,679.60, \$1,493.60, and \$1,058.00; R. P. Andrews Paper Company, at \$1,699.20 and \$1,152.00; Whitaker Paper Company, at \$1,608.00; and Alling & Cory, at \$1,632.00.

3,000 pounds of pink bond printing paper in 17-inch rolls; Dobler & Mudge, at \$900.00; George W. Millar & Co., at \$798.00; Old Dominion Paper Company, at \$776.70 and \$686.70; R. P. Andrews Paper Company, at \$807.00; Alling & Cory, at \$630.00.

3,000 pounds of white bond paper in 17-inch rolls: Dobler & Mudge, at \$900.00; Alling & Cory, at \$630.00; George W. Millar & Co., at \$765.00; Old Dominion Paper Company, at \$745.20; and R. P. Andrews Paper Company, at \$777.00.

The Purchasing Officer of the Panama Canal has announced the following awards for bids opened on January 24.

George W. Millar and Company will furnish 5,000 sheets of 26 x 28 inch strawboard at \$410.

2,000 lbs. of dark color money wrapper paper in 18-inch rolls will be furnished by the Old Dominion Paper Company at \$239.96.

### Navy Department Bids

The Bureau of Supplies and Accounts, Navy Department, will open bids on February 27 for the following: 440 reams of 17 x 28 inch white paper; 75 reams of 17 x 28 inch blue paper; 50 reams of 17 x 28 inch pink paper; 50 reams of 17 x 28 inch yellow paper; 50 reams of 17 x 28 inch white onion skin paper; 61,000 sheets of 22½ x 28½ inch card board.

### Chicago As Big Papermaking City

Water from Bubbly creek and the drainage-canal can be used in the manufacture of fine papers as successfully as the sparkling crystalline content of the snow-fed mountain streams of New England, say local paper manufacturers, according to the *Chicago News*.

Chicago, one of the greatest paper-consuming cities in the world, will become one of the great paper-producing centers with the completion of the proposed Great Lakes-St. Lawrence river, and Illinois-Mississippi waterways, they contend.

Convinced of the future of the industry in Chicago, the paper men await only assurance of the success of the waterways project before beginning work on their Chicago mills. Four plants, making wrapping paper and packing board are already in operation in Chicago, and Mendelson Brothers, paper stock dealers, will soon begin construction of a large plant for manufacturing fine print papers.

"The future of the industry is assured from the fact that Chicago has such an excellent market for this product," said Samuel M. Mendelson, general manager of Mendelson Brothers. "In addition, Chicago's railroad facilities, labor conditions, good water, and last, but not least, the opening of Chicago markets to foreign countries by way of the proposed St. Lawrence and Illinois-Mississippi waterways, combine to make the city an ideal paper-producing center.

"At present, Chicago is one of the two great raw material centers for papermaking. It leads the country in papermaking materials, exclusive of wood pulp. Rags and graded paper stock are shipped from Chicago to mills in Wisconsin, Minnesota, Michigan and throughout the entire middle west, to be converted into paper, shipped back to Chicago and consumed here.

"Chicago runs a close second to Greater New York in the printing done per year. It is gaining daily, while New York is losing. Before long Chicago will be far in the lead. The great mail order catalogues issued by Chicago firms would be sufficient in themselves to establish Chicago as a paper market.

"We have had tests made of filtered water from the drainage canal, and find it available for our purposes. The new waterways will give direct water transportation for Canadian wood pulp to Chicago, and provide water transportation for distributing the finished product to markets outside of the city.

"Cheap power will also be assured, through the hydroelectric energy developed by the waterways and the way to foreign markets will be opened."

### No Tax on Canadian News Print

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, Que., February 10, 1920.—As a result of the publicity given to the matter, the Dominion Government has evidently dropped the idea of imposing an export tax of \$10 per ton on news print. Sir Harry Drayton, the Minister of Finance, today announced definitely that no such duty would be included in the next budget.



SOLE AGENTS in the United States, Canada, Mexico and Cuba for  
**FINNISH CELLULOSE ASSOCIATION, HELSINGFORS, FINLAND**  
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## PAPER MATTERS OF INTEREST IN AND ABOUT HOLYOKE, MASS.

**Edmund E. Keough Succeeds Fred M. Webster as Advertising Manager of the American Writing Paper Co.—Mr. Webster Will Enter Paper Business as a Special Mill Representative—C. N. Wellington Addresses Connecticut Valley Branch of the Cost Association of the Paper Industry—American Writing Paper Co. Awards Ten Old Guard Pins to Employees.**

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, Mass., February 9, 1920.—Edmund E. Keough, well known in the local advertising field, has been appointed active advertising manager of the American Writing Paper Company to succeed Fred M. Webster, who has resigned.

Mr. Webster was transferred to the local office as advertising manager from the New York office of the company, following Mr. Galliver's election as president of the concern.

The new advertising manager has had several years' experience in the advertising and sales promotion work, and assumes his new duties well qualified. He was formerly engaged in publicity work with a number of important newspapers in various parts of New England and New York State. His principal connections have been with the New England Westinghouse Company; Phelps Publishing Company, Springfield, and Eldredge Electric Company, of Springfield.

Mr. Webster was advertising manager for the company for a period of 13 years and is probably one of the most widely known men in this profession. He was prominent and has always taken active interest in the promotion of good fellowship between printers and manufacturers and jobbers, and in creating a better understanding between the jobbers, mill men and printers. He plans to enter the paper business as a special mill representative.

### Japanese Tissue Mills Elect Officers

The following officers were elected at the annual meeting of the Japanese Tissue Mills held last week: President and general manager, J. T. Robinson; first vice-president, Wilson J. Brockway; second vice-president, Paul E. Graves; treasurer, William H. Bond; assistant treasurer, William F. Otto; secretary and clerk, Fred R. Keens; directors, J. Lewis Perkins, William H. Bond, James T. Robinson, Fred R. Keens, Wilson J. Brockway, Paul E. Graves, William F. Otto, Robert M. Preston, John McEwen, Floyd R. Graham.

### Addresses Cost Association

Charles N. Wellington, of Scoville-Wellington Company, Boston industrial engineers, addressed the meeting of the Connecticut Valley Branch of the Cost Association of the Paper Industry, held at the Hotel Nonotuck tonight. The subject of Mr. Wellington's talk, which was interesting throughout, was "Prime Requisite of Cost Determination in the Selling Price."

James A. Reilly, manager of the American Writing Paper Company cost and inventory department, presided. Mr. Reilly was recently elected president of the local organization to succeed Seth L. Bush, of the Crocker-McElwain Company, who resigned.

### Award "Old Guard" Pins

As an instance of the loyalty and cooperation of its employees the American Writing Paper Company has the unique pleasure this month of awarding no less than ten "Old Guard" pins to its employees, typifying twenty years or more of continuous and faithful service.

This is the largest number ever awarded at one time, with the exception, of course, of those given out at the time the "Old Guard"

was established. The ten recipients of the coveted honor this month are members of the "Junior Guard" who have just completed the prescribed length of service.

The "Old Guard" pin is extremely attractive. It is of gold and is in the form of an oval, in the center of which appears the well known "Eagle A" of quality. Surrounding this are the words "Old Guard American Writing Paper Company."

Needless to say this emblem of merit and distinction is highly esteemed by its nearly five hundred and fifty wearers.

Every pin awarded is accompanied by a personal letter from the president, George A. Galliver.

The officials take a very justifiable pride in its large army of "Old Guard" members, whose long experience plays an important part in maintaining the high quality of "Eagle A" papers.

### Americanization Work

The American Writing Paper Company is making fine progress in its Americanization work among its employees. The other day twenty men were appointed from the various plants of the company who met at the Hotel Nonotuck and discussed plans for further pushing along this work. Plans were formulated for the inaugural of classes for the non-English speaking employees. School rooms may be established in the Dickinson and Nonotuck mills of the company for the convenience of the employees.

### Connecticut River Navigation

Under the auspices of the Holyoke Chamber of Commerce a round table conference was held at the Hotel Nonotuck last week at which was discussed the project of Connecticut River navigation which is just now occupying the minds of many. A banquet will be held February 23 at which it is expected 500 will be present. These will be representatives of the business interests of the entire Connecticut Valley.

### Remington Co. to Increase Housing Facilities

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., February 9, 1920.—The Remington Paper and Power Company has undertaken the construction of adequate housing facilities for its employees in the mill at Norfolk and the other mills at Raymondville. Already eight houses are under construction at Norfolk and a few are being planned for the other mill towns.

To handle this and other similar properties the officers of the company have organized the Norray Realty Corporation with a capitalization of \$100,000 and the papers have just been filed with Secretary of State Francis M. Hugo at Albany. The company begins business on \$10,000.

In the papers of incorporation it is stated that the company is formed for the purpose of dealing in pulpwood and other forest products and is permitted to purchase real estate both within and without the state. The principal office will be located at Norfolk. The five directors named in the papers are: Vice-President Mark A. Hanna, Vice-President C. H. Hanna, Secretary and Treasurer R. B. Maltby, Frank Wadley and W. F. Christopher, of the Remington Paper & Power Company.

Mr. Hanna said that the new corporation would finance the housing plans and would build the homes and sell them to the employees.

### Diem & Wing Paper Co. Election

CINCINNATI, Ohio, February 10, 1920.—At the annual election of officers of the Diem & Wing Paper Company, the following officers were re-elected:

Albert Diem, president; I. Henry Reid, vice-president and general manager; William A. O'Hara, vice-president.

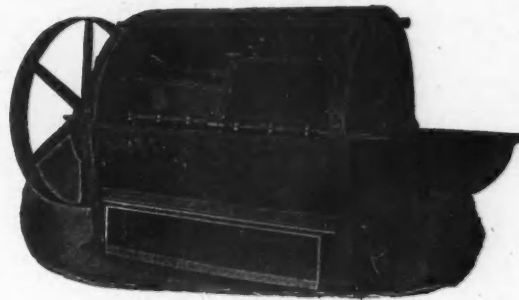
The following changes in the company were made: Alvin Bodemer, treasurer; P. A. Stuhlreyer, secretary; A. L. Brown, assistant secretary; W. F. Rocmler, assistant treasurer.



# "IMPROVED" KNOTTER

for the first screening of sulphite, sulphate or ground wood pulp

We shall be glad to furnish data and samples of the work this machine will do in actual use.



Knotter Design No. 2

The cost of power and upkeep is extremely small and the results are very satisfactory.

WE ASK A THOROUGH INVESTIGATION

## IMPROVED PAPER MACHINERY CO.

NASHUA, N. H., U. S. A.

# The Sandy Hill Iron & Brass Works

Hudson Falls, N. Y.

Manufacturers of **Paper and Pulp  
Mill Machinery**

## PAPER PRICES IN CHICAGO CONTINUE FIRM AND STRONG

**Some of the Mills Are Reported Sold So Far Ahead That They Are Unable to Take Additional Orders Under Any Circumstances—Mills of Middle West and Northwest Have Suffered Seriously Through the Influenza Epidemic—Fear Among Some Paper Dealers That a Railroad Strike Will Be Called—This Would Be Serious Because of the Condition of Stock.**

[FROM OUR REGULAR CORRESPONDENT.]

CHICAGO, February 10, 1920.—The general condition of the paper market here was firm during the week. The demand for paper of all kinds continues very strong, and some of the mills are sold so far ahead that they are no longer able to take orders under any consideration. The oversold condition of the mills in middle western and northwestern territory is more extensive and serious, from a trade viewpoint, than it ever was at any time during the world war. In those days when mills were three and four months behind on their orders it was considered something of a record, but now a great many mills are five and six months behind. In some of the paper specialty lines the entire production of mills for 1920 has been sold out. The wrapping paper market is very feverish, owing to the light stocks in the hands of the dealers. Some of the dealers declare that they are unable to get their orders filled by the mills, and are even going so far as to say that the mills are playing favorites in the orders they fill. The mill representatives deny that such is the case, and say that orders are being filled in rotation, as nearly as mill conditions make possible.

The paper mills of middle western and northwestern territory have suffered seriously on account of the prevailing influenza epidemic, and the illness has also taken many members of the paper trade in the city away from their tasks for periods lasting from one to three weeks. However, the epidemic is now abating, and it is not believed that many new cases will be reported.

There is some fear among the paper dealers of the city that a railroad strike will be called. In the present condition of paper stocks this would be very serious, on account of the inability of the railroads to get paper from the mill to supply their customers. It is very largely a case of hand-to-mouth with the jobbers, for conditions have been such in recent months that they cannot gain a surplus.

### General News of the Trade

The paper trade of the city was much shocked by news of the death of R. A. Patrick, of Seaman & Patrick, paper distributors of Detroit, Mich. Mr. Patrick had many friends here, and was in the city on a business trip only ten days ago. Death was due to pneumonia.

Ed Schmidt, of Parker, Thomas & Tucker Paper Company, has returned to his desk after recovering from an attack of influenza. Mr. Schmidt was ill for more than a week. He will not devote full time to business for a few days on orders of his physician to avoid overwork.

George Gerphide, of the Bardeen Paper Company, Otsego, Mich., has returned home after spending a few days in calling on friends in this market.

H. W. Suter, manager of the cardboard department of the Champion Coated Paper Company, of Hamilton, O., visited in the city during the latter part of the week.

A. C. Austin, of the Moser Paper Company, who has been ill with the influenza, is back at his desk this week.

J. F. Roney, of Parker, Thomas & Tucker, is in St. Luke's Hospital in serious condition. He was recently struck by a motor truck. While he was recovering pneumonia set in. He has

a record of continuous service as a paper salesman which is believed to be the longest in Chicago.

B. M. Anderson, of the Carpenter Paper Company, Omaha, paid a visit to the city during the week.

Douglas Wray, of the Douglas Wray Paper Company, has been indisposed for a few days on account of a bad cold.

Fred Dresskell, of the Chicago office of the Champion Coated Paper Company, left last week on a trip which will take him south by way of New Orleans through the Panama Canal, and up the Pacific Coast to San Francisco. He will visit for a while in California and will then return home, stopping at several points of interest in the west on the way.

Ray Russell, representative of the Marathon Paper Mills of Rothschild, Wis., is making a trip through middle western territory.

R. C. Joyce, of the Empire Paper Company, was out of the city on business during the week.

New interior decorations have been made in the office of the Paper Mills Company.

Louis Dwyer, of the Seaman Paper Company, has returned from a trip among some of the eastern paper mills.

Ed French, of the French Paper Company, Niles, Mich., was among the visitors in the city last week.

Fred Kroeker, of the McKenzie Paper Company, Butte, Mont., visited in the city for a few days this week.

M. D. McAlpine, of Bradner, Smith & Co., has returned to his office after a couple days out of the city on business.

Dana Pratt, of the J. W. Butler Paper Company, has returned from an out-of-town business trip.

Frank Walsh, of the Douglas Wray Paper Company, was ill for several days during the week with a bad cold.

R. W. Harrington, of the Kalamazoo Paper Company, visited in the city last week.

C. K. Higgins, secretary of the Middle States Wrapping Paper Association, attended the meeting of that organization in Detroit last week.

E. Y. Nelson, of the Eddy Paper Company, was a visitor in Chicago last week.

F. L. McClellan, of the McClellan Paper Company, Minneapolis, has returned home, after spending a few days in this market on business.

G. W. Bryant, of the Campbell Paper Company, Kansas City, Kan., paid a visit to Chicago this week.

F. D. Wilson has returned from a visit to the mill of the Lafayette Board & Paper Company, Lafayette, Ind., for which he was recently appointed exclusive sales agent.

F. H. Baker, manager of the St. Louis branch of the Seaman Paper Company, visited in the city last week.

Some excitement was caused in the Otis building, in which a number of paper firms are located, when a shooting affray between two railroad men occurred on the fifteenth floor.

A. M. Forsythe, of the Forsythe Paper Company, made a trip to Kansas City and St. Louis last week.

George Tolen, of the Midwest Paper Company, recently visited at the mills in middle western territory.

The Pioneer Paper Stock Company had a small fire last week, which was extinguished by employes before the arrival of the fire department.

E. R. Hamilton, of the Pilcher-Hamilton Company, has returned from a trip to the south.

E. U. Kimbark, of the Paper Mills Company, spent part of the week among the mills.

### Miami Valley Tissue Mills in Bankruptcy

CINCINNATI, Ohio, February 9, 1920.—The Miami Valley Tissue Mills Company filed a voluntary petition in bankruptcy Saturday.



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ALWAYS  
IN TRANSIT AND ON HAND  
IMMEDIATE SHIPMET

PERKINS-GOODWIN CO.  
33 WEST 42nd ST.,  
NEW YORK



## DEMAND IN PHILADELPHIA CONTINUES VERY ACTIVE

**Rush of Business Is Unabated Although Prices Are Soaring—  
Jobbers Believe Danger Point Is in Sight and Would  
Prefer to Do Less Business and at Lower Prices—Plants  
Face a Shortage of Coal—Dill & Collins' Salesmen Have  
Trade Conference—Hartung & Co. Distribute Bonuses  
to Employees—Lowe Paper Co., Adds to Its Sales Force  
—General News of the Trade.**

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, Pa., February 9, 1920.—The rush of business continues unabated. Printers and publishers demanding book and news and mill men and jobbers requiring wrappings and krafts will not be denied supplies, even though prices are advanced over night. Indeed, if the jobbers permitted consumers alone to fix prices in competition for prompt supplies, it is not at all improbable that they would be even higher than they now are. But the trade, being well organized, is consistently adhering to the policy of fair dealing to all, of taking care of regular customers in the order of receipt of their requisitions, and is not permitting them to wait in favor of opportunists quite willing to pay advances if they are given a preference. Perhaps now as never before, the benefits of the Paper Trade Association and its trade customs and practices have worked to the good of the customer as well as the trade.

Many jobbers believe a danger point is in sight—that prices must either cease skyrocketing or there will be a reaction looking towards restriction of demand or of substitution of cheaper grades. The more conservative feel that conditions are feverish rather than wholesomely active. They would far rather do less business and at lower prices, too, under old-time standards of lower costs and overhead and a wider margin of profits than under present circumstances. It is not a pleasant experience, with orders waiting, to have the mills write in that they are not taking on any new business, or that they will supply but half of the order, or that deliveries will not be made until July or August, and only then at prices at time of shipment, or perhaps thirty days before.

### Local Mills May Close

The local mills face a coal shortage more acutely now than ever. The week brought no relief in the situation. Closedown of at least a part of the plant is sure unless within the next week conditions improve decidedly.

Stock dealers report an exceptionally strong demand for ledgers and book stocks. All the other grades are moving steadily, with prices strong and generally at outside quotations. During the week there were advances on solid ledgers and writings, heavy books, old papers, and the new grade of container manila, old news and mixed papers, and on No. 1 and No. 2 rags and thirds and blues. The other grades are selling well and at outside rather than inside quotations.

### Dill & Collins' Sales Conference

Though sales conferences of the Dill & Collins force are semi-annual occurrences, the recent meeting here was different from others which have preceded, for the reason that its purpose was directed towards the producing rather than the selling end of the business. Of course, the sales end was not overlooked, but the point of view was towards it from the mill rather than from the accounting room. The spirit of the occasion was the inspiration of the sales force with the enthusiasm of the papermakers—the development of strong sales' talk from knowledge of the manufacturing end. There assembled in the Dill & Collins office forty representatives from this city, New York, Boston, Richmond and Baltimore, with the special guests, Forest Hopkins, C. B. Lind-

strom and S. W. Barnes, representing the Paper Mills Company, Chicago distributors. During the business sessions addresses were made by George Oechsle, manager of the Coating Department, on "Coating"; by J. G. Ramsey, superintendent of the Flat Rock Mill, on "Fourdrinier Machines"; by W. T. Webster, chemist at Flat Rock, on "Beaters," and by F. H. Mitchell, chemist at the Delaware Mill, on the "Bleaching Plant"; by Ralph Mair, of the Delaware Mills, on "Old Rags and Papers," and by Charles Shubert, superintendent of the pulp mill, on "Pulp." The conference had its climax at a banquet in the Downtown Club, at which seventy, including all department heads, were present. The address of welcome was made by President Grellet Collins. Other speakers were D. E. Burchell, of the Eastern Manufacturing Company, and S. W. Barnes, of the Paper Mills Company. Publicity Manager Neff was in general charge of the conference. To the sales force of Dill & Collins there have just been appointed, in Boston, W. H. Cowles, and in this city, P. S. Shelton and E. A. S. Hunter.

### Rewards for Hartung Employees

A more embracing plan of distribution of bonuses to the employees of A. Hartung & Co. will be placed in operation for this year. Hitherto there has been profit sharing among a large but still a limited number of employees. Henceforth practically all will participate. Every employee who at the end of this year has been twelve months or longer in the employ of the company will be given as a bonus a certain percentage of profits on a basis of salary earned and service given. A. Hartung estimates roughly that about \$10,000 will be apportioned at the close of 1920.

A. Hartung & Co. shortly will make formal announcement of the taking on, as sole distributors for this territory, of the line of Padlock Safety Paper, made by The Perfect Safety Paper Company, Holyoke. The claim is made that these papers never have been successfully altered and that the protection for checks and other important documents is built, chemically, into the body of the paper, instantly exposing any attempt at alteration by knife, chemical or eraser.

### Sales Forces Increased

The Lowe Paper Company, which recently took enlarged quarters at 231 Chestnut street, has just added to its sales force George Hooper, George Ott, Ralph Clements and Rutherford Patton, lately with F. W. Winne & Sons, who will assume charge of the twine department. Newton Hughes, formerly inside salesman, will hereafter be outside salesman.

M. A. Schoenbucher returns to the D. L. Ward Company organization on March 1, to take charge of the auditing of accounts of the branch houses and of statistics in the main office.

### Activities in Various Lines

The Fine Paper Division of the Philadelphia Paper Trade Association was entertained at luncheon at The Bourse on Thursday by A. Hartung & Co. Fourteen houses were represented. There were no formal addresses, but all present participated in a general discussion of trade conditions, particularly regarding bond papers, unwatermarked.

N. T. Barry, formerly with the C. H. Clinton Paper Company, is developing at Paschalville, just outside the city, a good business as a converter of tissue toilet papers.

On Tuesday next, Thomas J. Curry, of the D. L. Ward Company, will address the Class in Estimating of the Typothetae of Philadelphia in its rooms, 929 Chestnut street.

A. S. Datz & Son advise having on hand for immediate delivery a large stock of cardboards of all descriptions and of bond and cover papers.

Matthias & Freeman, Seventh and Arch streets, have added the full line of cardboards of the Beveridge Paper Company.

The Jarden Lithographic Company has secured permission for the erection, at a cost of over \$20,000, of a two-story reinforced

(Continued on page 68)

# Continuous Beating

More uniform stock, the power bill cut in two, only one-half of the floor space needed in your beater room and many other advantages follow the installation of a Bird Continuous Beating Attachment.

The cost of power saved alone will pay for the installation six times every twelve months.

These are not claims but facts proved in actual operation.

Send for "Continuous Beating" Catalog A.



## BIRD MACHINE CO.

EAST WALPOLE

MASS.

*Western Representative:*

T. H. SAVERY, JR.

1630 Republic Bldg.,

Chicago, Ill.

88-96

## PULP PRODUCTION SUMMARY DURING MONTH OF DECEMBER

Statistics Gathered by the Federal Trade Commission for the Month of December Showed That Ground Wood Mill Stocks Equalled Slightly More Than Thirty-one Days' Average Output, News Grade Sulphite Mill Stocks Equalled Slightly More Than Nine Days' Average Output and Bleached Sulphite Mill Stocks Equalled Slightly More Than Four Days' Output.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., February 9, 1920.—In connection with the Federal Trade Commission's current statistics on the paper industry a summary of the monthly reports from manufacturers of wood pulp and other kinds of pulp used in paper making is submitted herewith for the month of December, 1919. The table shows the kind of pulp, the stocks, production, pulp used and shipments for the month. The pulp shipped during each month represents only pulp shipped to a concern different from the one producing it. Loss of production is shown by giving the idle machine time reported by each company for each kind of pulp.

### Pulp Production

The following is a tabulation of the production, pulp used by the company producing it, shipments to outside concerns, and stocks of finished pulp, in tons of 2,000 pounds on an air-dry basis, for December, 1919, compared with December, 1918, for the operating mills. The average production and stocks based upon the 12-month period ended September 30, 1919, are also shown for comparison purposes.

	No. of mills	On hand first of month	Production for month	Used during month	Shipped during month	On hand end of month
<b>Ground wood pulp:</b>						
December, 1919	172	140,129	132,795	119,616	13,347	139,961
December, 1918	152	117,543	115,539	108,629		124,453
Average			116,610			150,161
<b>Sulphite, News Grade:</b>						
December, 1919	66	21,249	66,782	57,283	10,375	20,373
December, 1918	56	14,965	58,142	54,454		18,653
Average			59,072			21,558
<b>Sulphite, Bleached:</b>						
December, 1919	32	8,636	47,844	25,583	24,087	6,810
December, 1918	28	3,466	42,597	41,255		4,808
Average			40,820			10,270
<b>Sulphite, Easy Bleaching:</b>						
December, 1919	8	1,577	5,126	3,539	1,850	1,314
December, 1918	10	1,051	9,403	8,543		1,911
Average			6,292			2,112
<b>Sulphite, Mitscherlich:</b>						
December, 1919	7	1,974	6,670	4,163	2,672	1,809
December, 1918	7	1,500	6,411	6,476		1,435
Average			6,552			1,745
<b>Sulphate Pulp:</b>						
December, 1919	22	7,771	15,356	9,408	6,072	7,647
December, 1918	15	825	11,260	9,880		2,205
Average			12,870			5,279
<b>Soda Pulp:</b>						
December, 1919	28	7,248	31,232	17,198	15,610	5,672
December, 1918	26	3,561	29,071	29,043		3,589
Average			31,018			6,173
<b>Other than wood pulp:</b>						
December, 1919	6	280	812	747	105	240
December, 1918	7	243	1,550	1,654		139
Average			910			194
<b>Total for all grades:</b>						
December, 1919		188,864	306,617	237,537	74,118	183,826
December, 1918		143,154	273,973	259,934		137,193
Average			274,322			197,494

\*Included in pulp used.

Note: A slight variation will be noted between the monthly reports of November and December in the matter of the stock on hand for each grade on account of corrections received from the mills.

Total stocks of all grades of pulp in the mills on December 31 amounted to 183,826 tons. Mill stocks of all grades decreased during the month.

Comparing the stocks on hand at the domestic pulp mills at the end of the month with their average daily production based on the 12-month period ended September 30, 1919, the figures show that:

Ground wood mill stocks equal slightly more than 31 days' average output. News grade sulphite mill stocks equal slightly less than 9 days' average output. Bleached sulphite mill stocks equal slightly more than 4 days' average output. Each bleaching sulphite mill stocks equal slightly more than 5 days' average output. Mitscherlich sulphite mill stocks equal slightly less than 7 days' average output. Sulphate mill stocks equal slightly more than 15 days' average output. Soda pulp mill stocks equal slightly less than 5 days' average output. Mill stocks of "other than wood pulp" equal about 7 days' average output. Total mill stocks of all grades equal slightly more than 17 days' average output.

### Loss of Production

The number of grinders and digesters showing lost time during the month of December in operating mills was 1,283. These figures do not include the machines in three mills that were not in operation during December. The number of hours lost for various reasons is shown in detail in the following tabulation:

	Lack of power	Repairs	Other Reasons	Total December	Total Nov'ber
<b>Ground wood:</b>					
Number of grinders	483	247	267	997	846
Total hours idle	91,414	33,469	50,137*	175,020	82,770
<b>Sulphite, News grade:</b>					
Number of digesters	19	61	41	121	105
Total hours idle	2,570	7,105	4,381	14,056	8,548
<b>Sulphite, bleached:</b>					
Number of digesters	2	31	14	47	13
Total hours idle	229	1,177	1,447	2,853	416
<b>Sulphite, easy bleaching:</b>					
Number of digesters	0	0	3	3	3
Total hours idle	0	0	834	834	180
<b>Sulphite, Mitscherlich:</b>					
Number of digesters	0	12	3	15	22
Total hours idle	0	1,034	710	1,744	1,975
<b>Sulphate pulp:</b>					
Number of digesters	0	7	27	34	17
Total hours idle	0	749	7,758†	8,507	4,188
<b>Soda pulp:</b>					
Number of digesters	0	28	34	62	56
Total hours idle	0	1,220	9,936‡	11,156	9,302
<b>Other than wood pulp:</b>					
Number of digesters	0	0	4	4	4
Total hours idle	0	0	1,058	1,058	586
Total number of grinders and digesters—December	504	386	393	1,283	...
Total hours idle for all grinders and digesters—December	94,213	44,754	76,261	215,228	...
Total number of grinders and digesters—November	491	408	167	...	1,066
Total hours idle for all grinders and digesters—November	43,202	40,190	24,573	...	107,965

\*Includes 6,032 hours due to labor conditions and 30,691 due to anchor ice.

†Includes 3,144 hours due to lack of coal.

‡Includes 4,688 hours due to lack of coal and 3,870 due to labor conditions.

### To Repeal Duty on Print Paper

Representative Connally, of Texas, has introduced a bill in the House "to repeal tariff duties on printing paper, wood pulp, and rag pulp." The bill, which has been referred to the Ways and Means Committee of the House, is as follows:

That on and after the day following the passage of this Act, the articles mentioned in the following paragraphs shall, when imported into the United States or into any of its possessions (except the Philippine Island and the Islands of Guam and Tutuila) be exempt from duty:

1. Printing paper (other than paper commercially known as handmade or machine-handmade paper, japan paper, and imitation Japan paper by whatever name known), unsized, sized, or glued, suitable for the printing of books and newspapers, but not for covers or bindings.

2. Mechanically ground wood pulp, chemical wood pulp unbleached or bleached, and rag pulp.

### E. V. Krom Goes With Adams Paper Co.

PITTSBURGH, PA., February 9, 1920.—E. V. Krom, formerly of New York, has resigned his position with the Forest Castle Paper Corporation and has accepted a position with the A. L. Adams Paper Company of Baldwinville, Mass.

# J. Andersen & Co.



21 East 40th Street, New York, N. Y.

## A-1 Bleached Sulphite

KELLNER-PARTINGTON PAPER PULP CO. LTD.  
Borregaard, Norway



### KRAFT PULP

Uniform in Quality

Essential for Strength Requirement

THE PULP AND PAPER TRADING COMPANY

21 East 40th Street . . . . . New York, N. Y.

Sole Agents for the United States for

CANADIAN KRAFT, LTD., Three Rivers, Canada

## BUSINESS IN PAPER MARKET IN TORONTO IS VERY ACTIVE

**Jobbers Prosperous in Spite of Paper Shortage—Customers to Be Charged or Credited With Crates and Cases—Canadian Vegetable Parchment Paper Co. Now in Operation—Western Canada Pulp and Paper Co., Ltd., Capitalizes for \$1,000,000 to Carry on Pulp, Paper and Lumber Business—Calder Pulp and Timber Co., Granted Provincial Charter—General News of the Trade.**

[FROM OUR REGULAR CORRESPONDENT.]

TORONTO, Ontario, February 9, 1920.—Business in the paper line is moving along with a swing and the trade done by the jobbing houses has for the past month been very satisfactory, considering the shortage in several grades and the fact that mills seem to be getting farther and farther behind in their deliveries. It does not appear that the output will catch up with the demand for some months yet. Certain lines of paper have become so scarce that a number of large jobs in printing could not be taken by local establishments during the past few weeks. When an order is received by a printer he first consults his paper house or mill to find out if he can secure that range and if so when? In not a few instances he has to turn down jobs. Book and writing papers are gradually stiffening on certain lines, but a general advance has not gone into effect.

Owing to advances in raw stock, white blanks of all kinds ascended about 33½ per cent during the past week. Coated paper has virtually gone up also. Notices have been sent to consumers that, after February 1, on all papers including bonds, writings, envelopes, coated (books and boards) packed in crates or cases, there will be a charge of 20 cents per 100 pounds for crates and 40 cents per 100 pounds for cases to be shown separately on the invoices and, should it be found convenient for the buyers to return standard size crates or cases to the mills in good condition, credit will be given the customer's account for the full amount of the extra charge. The recent raises in quotations which have gone into effect have had no perceptible influence in buying.

The plant of the Canadian Vegetable Parchment Paper Company, which will make genuine vegetable parchment, is now in operation and a fine product is being turned out at Merritton. This is the first paper of its kind to be made in the Dominion. More and more Canadian plants are specializing on standard weights and sizes in order to secure the maximum of production and meet the demand for special grades. Thus all branches of the industry are being developed to a high degree and the Dominion will become more and more an exporting paper country, a start in this direction having been made after the war when certain foreign lines could not be obtained.

There is a splendid business being done in the rag and paper stock market and prices are showing an advance. Book and ledger stock, scrap and news are moving freely, while white blanks are in fair requisition. Roofing rags are in good demand, with values holding firm and all grades of new cotton rags are selling actively.

### Many New Companies Organized

The Western Canada Pulp and Paper Company, Ltd., with a capital stock of \$1,000,000, and headquarters in Toronto, has been granted a charter to carry on in all its branches a pulp, pulpwood, paper, log, lumber and timber business. Among the incorporators of the company are Joseph A. Kent, accountant, M. C. Purvis, barrister, and others.

A provincial charter has been granted the Calder Pulp and Timber Company, with headquarters in Niagara Falls, Ont., and a capital stock of \$250,000, to carry on a pulpwood and lumber business and to make pulp and paper of all kinds. Among the

incorporators of the company are Bert C. Crittsinger, of Niagara Falls, N. Y., and others. The company will operate a roasting plant at Burt, in Northern Ontario, and the work of construction is progressing favorably. John B. Roche is the manager of the company, which will roass about 110 cords of pulpwood a day. While the company is not in the lumber business, the large logs of poplar and spruce will probably be cut into boards and building material. Mr. Roche states that there will be a large cut of wood in Northern Ontario during the present season.

The Victory Paper Box Company, Ltd., is the name of a new company which has been incorporated, with a capital of \$30,000, and empowered to conduct the making of paper boxes and other like products. The company will take over, as a going concern, the business now conducted by the Victory Paper Box Company, 260 Spadina avenue, Toronto. Among those associated with the enterprise are A. Feuerstadt, S. Sturman, and Jacob Feuerstadt.

### Valleyfield Coated Paper Mills Chartered

A federal charter has been granted to the Valleyfield Coated Paper Mills, Ltd., with a capital stock of \$300,000 and headquarters at Valleyfield, Que. The new company will take over the business of the National Paper Company, Valleyfield, which has been operated for some years and manufactures coated paper and cardboard. It is understood that the interests associated with the Provincial Paper Mills Company, Ltd., Toronto, is closely connected with the newly-formed Valleyfield Coated Paper Mills Company, of which P. L. Colbert is manager. Extensions have been completed to the buildings and the equipment, and the industry is very busy at present. The new charter gives the company power to manufacture and deal not only in pulp and paper, but also lumber, timber, pulpwood, etc.

### General Jottings of the Trade

A charter has been granted the Tweed News, Ltd., with head office at Tweed, Ont., and a capital stock of \$20,000, to carry on the business of printers, publishers, lithographers, engravers, bookbinders, paper box makers, envelope and paper bag makers, etc. Among those constituting the company are Frederick E. Houston, John F. Houston and George H. Stokes, all of Tweed.

Fred L. Ratcliff, president of the Ratcliff Paper Company, Toronto, was recently elected a member of the Council of the Toronto Board of Trade. He is also treasurer of the Baptist Forward Movement Fund of Toronto, and recently addressed a large gathering in the Baptist Temple, Montreal, on "The Challenge of the Hour."

The Howard Smith Paper Mills, Ltd., Montreal, which some time ago acquired the plant of the Toronto Paper Manufacturing Company at Cornwall, are greatly increasing the output of sulphite pulp in that department by the installation of new equipment. One paper machine is being put on Bristol boards and the other machines are being lengthened out so that the capacity of the plant will be increased to fifty tons a day.

Word has been received in Toronto that the first of the Canadian government mercantile fleet to leave Vancouver for Australia, the *Canadian Aviator*, is carrying a cargo of news print paper to Australian publishers.

R. S. Brown, manager of the new Petersborough, Ont., plant of the Nashua Gummed and Coated Paper Company, recently arrived in that city to organize and take charge of the business. The installation of the equipment is now being proceeded with.

W. J. Bell, who has been a widely-known paper dealer at 43 Richmond street east, Toronto, for many years, and has been confined to the hospital for several weeks, has been able to leave that institution and is gradually regaining strength.

The Don Valley Paper Company, Toronto, is making extensive additions to its plant and has installed a thirty-ton Jordan engine which is direct motor driven. Additional beaters are also being put in which will increase the capacity of the mill, which is specializing more and more in its output.



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## New York Trade Jottings

George C. Sherman of the Taggerts Paper Company of Watertown, N. Y., was in town last week visiting the trade.

Daniel B. Morris of the Oxford Paper Company left Monday for a visit to the company's mills in Maine. He is expected to return Friday.

The George H. Fink Paper Company, Inc., now located at 117 Spring street, New York, has moved to its new and larger quarters at 792-794 Washington street.

Henry Atterbury, of Atterbury Brothers, has just returned from a three months' trip in South America, during which he investigated the casein situation there.

The Columbia Paper Company announces that Harold Ablowich, who has been with that concern for the past seven years, has recently been admitted to the firm.

The Clasp Envelope Company, Inc., 109 Leonard street, has filed notice with the Secretary of State at Albany, N. Y., of an increase in its capital stock from \$10,000 to \$30,000.

J. M. Allen attended an executive committee meeting of the Cost Association of the Paper Industry of which he is secretary, which was held in Springfield, Mass., Friday, February 6.

Robert B. Wolf, consulting engineer, has opened an office at 33 West 42nd street, where he announces that he will be specially equipped to handle problems of the pulp and paper industry.

L. W. Campbell of the Laurentide Company, Ltd., Grand Mere, Quebec, arrived in this city Tuesday, accompanied by his wife, enroute for the South, where they expect to spend several weeks.

The Waste Merchants' Association of New York held its 12th annual banquet on the Winter Garden Roof of the Hotel McAlpin, Wednesday, February 11. The attendance this year was noticeably larger than last.

Charles W. Williams & Co., Inc., announce the recent purchase of three new auto trucks: one five-ton White truck and two 2½-ton Auto Cars. By these purchases it is hoped to greatly expedite New York delivery.

Walter Hicks, of Daniel M. Hicks, Inc., was recently commended by the National Association of Waste Material Dealers, Inc., as having been directly or indirectly responsible for ten additional applications for membership to the association.

A conference was held at the headquarters of the National Association of Waste Material Dealers, Inc., February 6, for the purpose of considering the railroad and steamship situation as it affects importers and exporters in that line.

R. S. Kellog, secretary of the News Print Service Bureau, will leave next week for Chicago, to attend the annual meeting of the Inland Daily Press Association, held in that city February 17 and 18. Mr. Kellog will speak on the news print situation.

John Clyde Oswald has been elected president of the National Paper Trades Exchange. Mr. Oswald, president of the Oswald Publishing Company and publisher of *The American Printer*, is also announced by the Preston Trading Company as the newly elected vice-president of that concern.

## National Paper Products Co. Buys Mill

TACOMA, WASH., February 5, 1920.—In a recent issue, the *Tacoma Ledger* printed the following:

"With the departure for the South yesterday of M. P. Higgins, president of the National Paper Products Company, which is the manufacturing corporation of the Zellerbach Paper Company interests, the launching of the big California paper concern into a new field in Washington was announced. The Zellerbach interests, through a deal closed by Mr. Higgins, become owners of the Port Angeles paper mills. The company will operate the mills at increased capacity, making news print exclusively, it is announced.

"The location of the mill at Port Angeles, the sea port of the northern end of the vast Olympic Peninsula spruce belt, is declared by those familiar with the conditions there to be ideal. During the war the government constructed a railroad to tap the rich spruce section, where there is said to be an almost unlimited quantity of material for making wood pulp.

"The new management will at once take charge of the Port Angeles mill and establish an initial capacity of at least 55 tons daily. New machinery has been purchased to add to the plant and building operations will commence today. The plant will be the second in the state to be turned to the making of news print paper, the Inland Paper Company at Spokane having also dropped other papers. The Puget Sound district has been depending almost entirely on British Columbia mills for its news print. The Port Angeles mills will tend to relieve the acute shortage of this section, it is hoped, but demand is so far ahead of production that the effect will not be particularly marked.

## New Mill for Castanea Paper Co.

The Castanea Paper Company, incorporated January 29, is erecting a mill at Lockhaven, Pa., in which it will install four 156-inch Fourdrinier machines.

This new mill, which the company expects to be operating by January 1, 1921, is adjacent to the Lockhaven Mill of the New York and Pennsylvania Company.

Stock in the new company will be controlled by the New York and Pennsylvania Company and the Crocker Burbank & Co., Association. The directors of the Castanea Paper Company are A. G. Paine 3rd, president; G. E. Paine, vice-president and treasurer; Douglas Crocker, vice-president; and C. A. Clough, secretary. The cost of the new mill is estimated at \$3,000,000.

## New York Times Signs Contract

Mr. McAneny, vice-president and general manager of the *New York Times*, was in Montreal a day or two ago, and signed a contract with the Canadian Export Paper Company agreeing to take for a period of five years all the production of the two new paper machines now being constructed for the Laurentide Company. He stated that these machines will have a production of 40,000 tons of news print per annum. This will be linked up with the production from the company's own mill, namely, 30,000 tons per annum. Mr. McAneny said the *New York Times* was now using about 55,000 tons per annum, so that there would be a balance left over which would be passed along to the trade.

## May Put Embargo on Book Paper

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., February 11, 1920.—If some book paper manufacturers do not soon come to the rescue of the Government Printing Office it is possible that Congress will be asked to put an embargo on the exportation of book paper. It is understood that the printing office has been refused quotations at any price on bookpaper which is needed by the Government.

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## Obituary

### O. C. Barber

DAYTON, Ohio, February 9, 1920.—Probably few men were better known in the industrial world than Ohio Columbus Barber, millionaire manufacturer, who died last week at Akron after a brief illness from pneumonia following an attack of influenza. Mr. Barber probably was best known as the "match king," but to Miami Valley tradesmen he was known as the head of the American Strawboard Company which for many years wielded a strong hand in the affairs of the industry. The headquarters of the company were located at Akron, principally on account of his residence in that city. True, some of the branches went out of existence, including the one in this city, but there still remain eight or more mills which are active, including the one at Tippecanoe City, near Dayton, and at Piqua, a live Miami Valley town. The other active Ohio mill is at Circleville.

While Mr. Barber always kept in close touch with the company's affairs, he delegated the business of the corporation to Charles E. Hawkins, the general manager, at Akron. Some time ago the local mills were sold to Dayton interests for the purpose of converting them into a community center for North Dayton.

Stricken with influenza, Mr. Barber retired to his farm, and complications having developed, his daughter, Mrs. Dean Devan, of Chicago, was summoned. Death relieved his sufferings in a few days. Mr. Barber was 79 years of age. He never believed in retiring entirely from business. When past 70 he established the greatest farm in this part of the country near Barberton, and at his death this goes to an Ohio institution. He had often boasted that he would live to be 100 years of age, and had always enjoyed good health until his fatal illness.

Founding his gigantic match business in a barn in Akron, he developed it into a big plant and it became one of the first so-called trusts. When disagreeing with Akron city officials over taxes a number of years ago, he removed his plant to farm land eight miles from the city and established the town of Barberton.

Local men who knew him say O. C. Barber was a builder; that it never was his policy to absorb industries but rather to start at the bottom and build them up. Probably his identification with the straw board business came about through the necessity of his various match companies requiring great quantities of board for match boxes. It is not believed this part of his business was as successful as many other enterprises with which he was connected. He leaves an enormous personal estate.

### George Hopkins

STEVENS POINT, Wis., February 9, 1920.—George Hopkins, an old-time Holyoke paper maker, died recently at the residence of his son, W. C. Hopkins, here.

Mr. Hopkins was born in Dover, England, in 1847, coming to this country thirty-three years ago. He located with his family in Pennsylvania for a short time and then moved to Holyoke, where he was connected for a good many years with the Linden Division of the American Writing Paper Company under the late Mr. French. He retired about eight years ago, coming to Wisconsin to live with his son.

Mr. Hopkins leaves four sons and two daughters. The remains were taken to Holyoke for burial in Forest Dale cemetery.

### Ray Jewell Holt

EVANSTON, Ill., February 10, 1920.—Ray Jewell Holt, manager of sales in the Chicago territory, for the Nashua Gummed and Coated Paper Company, died of pneumonia at his home in Evanston on January 26. He had been associated with the Nashua Company for ten years and to his many personal and business

friends his death means an irreparable loss. Mr. Holt was born in Nashua, N. H., March 28, 1892, and was a prominent 32d degree Mason. He is survived by his widow and one child. Funeral services were held in Nashua on Saturday, January 31.

### Seek Better Freight Conditions for Canada

[FROM OUR REGULAR CORRESPONDENT.]

OTTAWA, Ont., February 9, 1920.—That better freight conditions would allow of greater use of Canadian-made news print and book papers in South Africa is the claim of Robert Muir, manager of the Argus Printing & Paper Company, of Capetown, South Africa, who has waited upon the Canadian Trade Commission to ask their assistance in the matter.

Mr. Muir, whose company operates a chain of publications in South Africa, said that before the war the freight rates from Scandinavian and Canadian mills had been the same, but now there was a difference of \$15 per ton weight in favor of the former. The South African users, however, do not want the Scandinavian output if they can get Canadian paper, so they are asking that the Canadian Trade Commission and the Department of Trade and Commerce use their influence with the Elder-Dempster Company, whose steamers carry the paper, to have the freight rates equalized.

The difference was previously as high as \$50 per ton weight against the Canadian product, but in the face of this the South African firm refused to order the Scandinavian paper. Now, however, they seek a return to the pre-war basis. The trade commission is taking the matter up with the steamship company.

### Peerless Paper Co. Has Annual Meeting

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, OHIO, February 2, 1920.—The annual meeting of the Peerless Paper Company has just been held in this city. Stockholders inspected the plant on Idylwild avenue and expressed satisfaction with the improvements made during the year and the volume of business transacted.

Directors were elected as follows for the year: George H. Mead, Arthur L. Rieger, Robert T. Honk, L. P. Rieger, W. N. Hurlburt, Louis F. Berk, all of Dayton; and Albert Herzog of St. Marys, Ohio.

Officers were chosen as follows: G. H. Mead, chairman of the board; A. L. Rieger, president and general manager; Albert Herzog, vice-president; L. P. Rieger, secretary-treasurer, and R. E. Pohl, comptroller and assistant secretary. M. G. Benson was re-appointed supervisor of purchasing and stock departments.

### Best Loved Employer in Canada

[FROM OUR REGULAR CORRESPONDENT.]

OTTAWA, Ont., February 8, 1920.—During the course of an address to the members of the Brotherhood of Knox Presbyterian Church here, Ex-Mayor Charles Hopewell described Mr. J. R. Booth, the veteran pulp and paper manufacturer, as "the best-loved employer of labor in Canada, because he is in personal contact with his men year in and year out." Mr. Booth is never happy unless he is working around the mills, rubbing shoulders with his employees, and dressed in rough working apparel. Despite his great age of 94 years, he can be found at the mills any time during the day. He is a very hard man to get on the telephone, the usual answer given when anyone calls being "He is out in the yard; will you leave your name and number."

### Calder Pulp Co. Incorporated

[FROM OUR REGULAR CORRESPONDENT.]

NIAGARA FALLS, Ont., February 10, 1920.—The Calder Pulp and Timber Company, Limited, has been incorporated here by Burt Clark Crittsinger, timber merchant, and others. The capital stock has been fixed at \$250,000, divided into 2,500 shares of \$100 each.

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## NOTES ON SULPHITE ACID AND ITS ANALYSIS

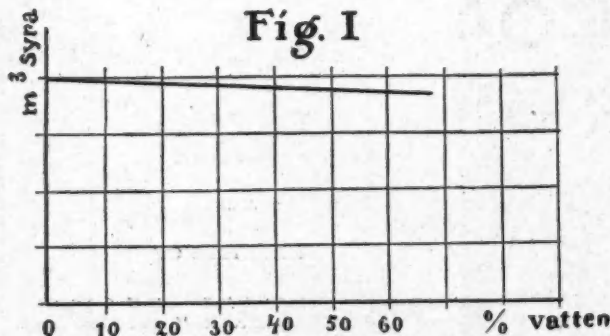
BY BENGT THORBJORNSON IN SVENSK PAPPERSTIDNING.

(Concluded from the issue of *The Paper Trade Journal* of May 15, 1919.)

Fig. 1, shows that the proportion of acid in the liquor necessarily diminishes with increased moisture in the ground wood. The curve mainly depends upon the specific heat and water content of the wood. The heavy line, if taken with sufficient care, sinks lower in winter than in summer, that is, when wood is frozen it requires more steam for pulping.

Fig. 2 shows how the quantity of bisulphite and sulphurous acid in the liquor necessarily varies with the changes in the specific heat and water content of the wood. When, through a sufficiently accurate analysis, we determine the consumption of bisulphite in cooking a wood of a certain quality, the analysis effects a great saving so far as the quantity of wood is concerned.

To determine the accuracy and closeness of the ordinary analytical methods for the sulphite liquor and to attain clearness in respect of certain properties of the sulphite acid, I carried out the subjoined analyses which are here revised. The whole series of analysis were made with lye from the cooker or tower. Titrations were carried out according to Winkler's method. The quantity of calcium was determined by treating the samples with hydrochloric acid, and all sulphurous acid was removed by cooking. The lime was then precipitated as oxalate. The magnesium content of the acid varied between 0.028 and 0.03 per cent. In the following figures I shall calculate from the higher number. The proportion of gypsum was thus determined; 50 cubic centimeters were treated in a flask with 100 cubic centimeters of boiling dilute hydrochloric acid and then well washed carbonic acid was passed through the liquid. The whole was distilled to 50 cubic centimeters; the sample washed in a beaker, diluted, and precipitated in the usual way with BaCl<sub>2</sub>. To determine the



total sulphur a part of the sample was placed in a beaker containing nitric acid. When all the sulphur was oxidized and the nitric acid removed, the sample was precipitated with BaCl<sub>2</sub> as before.

Tables I and II contain the results of the analyses of the samples of the liquor, which were taken during the summer, and Tables III and IV such as were taken in the month of November. The tests were carried through with the greatest accuracy attainable and with all possible closeness. But I must observe that the determinations of the specific gravity of the solutions were made with a normal aerometer, or hydrometer, the precision of which in testing had, unfortunately, been impaired. Correction of the results, however, was made and the true figures are inserted in the tables. In Table I total analyses of the lye from which the gases had not been driven off, are

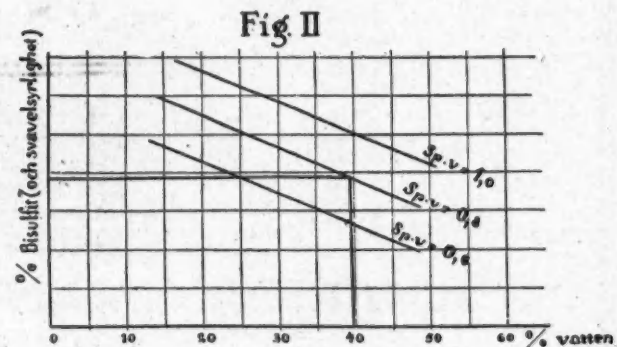
set forth in detail. Among other things the table affords the following data:

1a. Winkler's method employed in titrating degasificated lye (during the summer) gave values which were too high, on an

$$\frac{0.05}{1.02} \times 100 = 5\%$$

This must be ascribed to the circumstance that the calcium sulphite (CaSO<sub>3</sub>) reacted as a base.

1b. In degasificated liquor all sulphur is combined as sulphite and sulphate. The subjoined Table II as well as Table I com-



prises the results of the analyses of degasificated lye. From Table II it is to be deduced that—

2a. Winkler's method in titrating degasificated liquor gave results which on an average were

$$\frac{0.065}{1.146} \times 100 = 5.67\% \text{ too high; and—}$$

2b. That an accurate determination of the combined sulphurous acid in the liquor does not follow from the aid given by the specific gravity of the lye.

If we compare Table I with Table II we see that—

3a. Winkler's method shows the same error in titrating samples of degasificated lye taken in summer and autumn. Since the temperature of the lye as it comes from the tower is over 30 C. in the warmest weather and in November 20 C. and lower, the quantity of carbonic acid which is present previously in the liquor cannot have a very marked influence on the analysis. If appreciable quantities of carbonic acid are dissolved in the raw lye, the error in titration estimated in 2a must be smaller than the error calculated in 1a.

3b. Winkler's method carried out with degasificated liquor yields values which vary in a rather notable degree as the completed analyses show, that is, between 13 and — 4 per cent.

3c. The quantity of gypsum in the liquor is greater in summer than in autumn; of the calcium contained in the liquor the quantities, according to the samples, are in the warm period of the year—

$$\frac{0.36 \times 40}{1.36 \times 70} = 15.1\% \text{ as combined sulphite}$$

$$\frac{0.33 \times 40}{1.36 \times 70} = 12.8\%$$

and in autumn—

(Continued on page 38)

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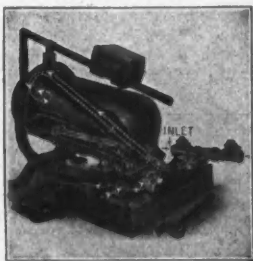
EOSINE  
ORANGE Y  
SCARLET  
FUCHSINE  
CROCEIN SCARLET 3B—M00  
FAST RED  
PAPYRINE RED

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METHYL VIOLET 3B—5B  
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Branches in 56 leading cities.

## NOTES ON SULPHITE ACID AND ITS ANALYSIS

(Continued from page 36)

3d. The ratio between the combined sulphurous acid and the total sulphurous acid in the raw lye is greater in summer (0.403 : 1) than in autumn (0.387 : 7).

From 3c and 3d it may be deduced that the limestone dissolves more readily in summer and at the same time the sulphite, too, goes over into gypsum more easily than when the weather is colder (it being postulated first that the gases of the boiler have an equal temperature and an equal SO<sub>2</sub> content). This gypsum readily forms a deposit which prevents the further decomposition of the limestone, and for this reason during the warm seasons of the year it must be washed away. This makes the cooking process especially difficult and laborious, particularly in mills where devices for using lye are in operation, and so far as heating gases of low SO<sub>2</sub> percentage (gases poor in acid) are employed.

From what has been said we may draw the conclusion that a temperature ratio will have to be found, at which limestone is easily dissolved by sulphurous acid, for the gypsum content is so small that it cannot have a disturbing influence upon the production of acid. It must be known to every technical expert on sulphite that in the sulphite pulp mills during spring and autumn a period begins during which it is very easy to produce lime in the liquor, a fact which is often noteworthy because through this effect the mills during the seasons just mentioned obtain a "stronger" and better pulp.

If we compare this result with that which is obtained from the analysis of degasificated liquor, then the latter is about 7.0-5.67 = 1.33% too low.

As it is clear from 3a that the circumstance cannot be due to the supposition that the carbonic acid is driven off in the gases; hence the ground of this must lie in the fact that iodine titration gives too high a result. We may thence infer that with gasification

Tabell 1.

Analys nr	Titrerings-analys			Vikts-analys		Bund. SO <sub>2</sub> enl. titring bund. SO <sub>2</sub> enl. vikts-analys %	Totalsvavel %	Svavel i sulfid + sulfat %	Totalsvavel — bestemt svavel %	Gips %	Mg %
	Tot. SO <sub>2</sub> %	Fri SO <sub>2</sub> %	Bund. SO <sub>2</sub> %	Ca %	Bund. SO <sub>2</sub> %						
1	2,08	1,22	0,83	0,54	0,78	+ 0,05	1,06	1,10	- 0,04	0,33	—
2	2,29	1,31	0,98	0,61	0,87	+ 0,11	1,28	1,28	+ 0,00	0,42	0,080
3	2,36	1,43	0,93	0,66	0,89	+ 0,04	1,23	1,27	- 0,04	0,36	—
4	2,62	1,68	1,17	0,72	1,08	+ 0,09	1,40	1,39	+ 0,01	0,32	—
5	2,65	1,53	1,12	0,78	1,13	- 0,01	1,43	1,41	+ 0,02	0,33	—
6	2,86	1,60	1,26	0,82	1,23	+ 0,03	1,51	1,51	+ 0,00	0,33	0,028
7	2,91	1,68	1,23	0,80	1,16	+ 0,05	1,57	1,54	+ 0,03	0,37	—
m.	2,83	1,46	1,07	0,70	1,02	+ 0,05	1,38	1,38	+ 0,00	0,36	0,03

Tabell 2.

Analys nr	Titrerings-analys			Vikts-analys		Bund. SO <sub>2</sub> enl. titr. — bund. SO <sub>2</sub> enl. vikts-analys %	Gips %	Sp. vikt	A n m.
	Tot. SO <sub>2</sub> %	Fri SO <sub>2</sub> %	Bund. SO <sub>2</sub> %	Ca %	Bund. SO <sub>2</sub> %				
1	2,11	1,42	0,69	0,41	0,61	+ 0,08	0,27	1,0202	
2	2,31	1,43	0,88	0,55	0,83	+ 0,05	0,31	1,0252	
3	2,31	1,34	0,97	0,60	0,88	+ 0,09	0,34	1,0253	
4	2,43	1,44	0,99	0,59	0,89	+ 0,10	0,27	1,0260	
5	2,45	1,71	0,74	0,46	0,73	+ 0,01	0,20	1,0241	
6	2,66	1,56	1,10	0,72	1,06	+ 0,04	0,36	1,0300	
7	2,69	1,59	1,10	0,68	1,01	+ 0,09	0,33	1,0299	
8	2,69	1,65	1,04	0,68	1,02	+ 0,02	0,31	1,0293	
9	2,69	1,61	1,08	0,69	1,00	+ 0,06	0,38	1,0298	
10	2,69	1,64	1,05	0,66	0,98	+ 0,07	0,33	1,0293	
11	2,70	1,73	0,97	0,59	0,93	+ 0,04	0,21	1,0278	
12	2,84	1,68	1,16	0,71	1,03	+ 0,13	0,41	1,0313	
13	2,85	1,68	1,20	0,75	1,13	+ 0,07	0,31	1,0320	
14	2,88	1,68	1,20	0,75	1,15	+ 0,05	0,27	1,0328	
15	2,90	1,70	1,20	0,75	1,15	+ 0,05	0,28	1,0322	
16	3,12	1,76	1,36	0,69	1,33	+ 0,03	0,39	1,0389	
17	3,15	1,80	1,35	0,79	1,24	+ 0,11	0,24	1,0348	
18	3,19	1,83	1,35	0,88	1,34	+ 0,01	0,31	1,0388	
19	3,21	1,86	1,35	0,84	1,25	+ 0,10	0,37	1,0389	
20	3,23	1,79	1,44	0,92	1,37	+ 0,07	0,38	1,0370	
21	3,24	1,87	1,37	0,89	1,38	+ 0,02	0,32	1,0359	
22	3,46	2,08	1,38	0,83	1,22	+ 0,16	0,40	1,0367	
23	3,49	2,12	1,37	0,96	1,42	- 0,08	0,42	1,0398	Mg = 0,030 %
24	3,84	1,99	1,55	0,97	1,45	+ 0,10	0,38	1,0393	
25	3,63	2,16	1,49	0,94	1,42	+ 0,07	0,36	1,0401	
26	3,68	2,04	1,64	1,02	1,56	+ 0,08	0,33	1,0421	
27	3,74	2,07	1,67	1,05	1,60	+ 0,07	0,34	1,0427	
m.	2,96	1,75	1,211	0,74	1,146	+ 0,065	0,33		

The analyses grouped together in Table III were carried out with gasificated lye. From this table, among other things, the following results appear:

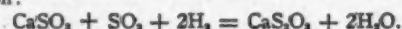
4a. With gasificated cooking acid Winkler's method yields a result which on an average is  $\frac{0.75}{1.07} \times 100 = 7\%$  too high.

neutral substances are either produced, or added to the acid, which consume SO<sub>2</sub>. But the quantity of these substances is small.

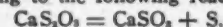
4b. Winkler's method in titrating gasificated acid yields a value which varies in a marked degree—according to the analysis between + 16 and - 1 per cent. that is to say, between higher limits than those for degasificated liquor.

4c. Besides sulphite and sulphite the sulphur in the liquor occurs in another form, and this in very considerable quantities; the average in Table III of the samples thus re-investigated is 0.11 per cent.

The sulphur just mentioned, which is formed by the reduction of sulphite and gypsum, probably arises for the most part in a free state, and is possibly produced by decomposition of the hyposulphite which occurs as a by-product, according to the following reaction:



The hyposulphite obtained is decomposed by acids into sulphite and sulphur according to the following reactions:



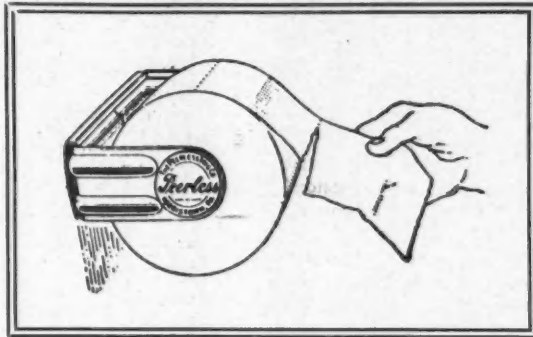
4d. The gypsum content of the liquor is diminished during gasification. In Table I the quantity of gypsum is 0.36 per cent, and in Table III 0.33 per cent, that is, a diminution of about 0.03 per cent. If we subtract the 1.03 per cent dilution caused by the condensate (100 cubic centimetres of liquor commonly introduce 3 cubic centimetres of condensate), then we obtain an actual reduction of 0.02 per cent. This depends upon the condition that the gypsum is partly reduced by the organic substances arising in the digester.

As the analyses in Table III were made, the gas was rapidly cooled. To investigate the influence which different temperatures had at which gasification took place, a part of the analyses was made to determine the ratio of gypsum, when the gases were not cooled. The results are given in Table IV. From this table it appears that the gypsum content of the liquor is smaller the higher the temperature of the acid as it rises during gasification. This is further proof of the results set forth in 4d. If the gypsum present in the liquor has already been reduced in the

(Continued on page 40)



## BACK ON THE MARKET AGAIN



When we first put this new

### Peerless Lock Toilet Paper Fixture

on the market we did not anticipate such an overwhelming demand, a demand exceeding our capacity 50%. We therefore withdrew all advertisements pertaining to the same.

We have increased the production sufficiently to allow us to again offer this fixture to the trade.

Made from aluminum, no parts to rust, break or get out of order, one or two sheets delivered at a time, impossible to remove roll until paper has been entirely consumed.

Write for prices, etc.

**THE PEERLESS MANUFACTURING CO.**

NORRISTOWN, PA.

Manufacturers of the "Walton" brand and also the Black & White Toilets—better known as "The Brands that Sell Themselves"

## NOTES ON SULPHITE ACID AND ITS ANALYSIS

(Continued from page 38)

gas oven, it is possible that this gypsum, which occurs in the acid pumped into the digester, is partly reduced during cooking, hence not all the sulphur contained in the gypsum is to be estimated as lost.

Nevertheless it must be regarded as preferable to do everything to keep the gypsum content of the raw liquor as low as possible.

Tabell 3.

Analys nr	Titreringsanalys			Viktanalys		Bund. SO <sub>2</sub> enl. titr.-bund. SK <sub>2</sub> enl. viktsanalys	Totalavvärd %	Vid joditering och gipbest. fun. svavel %	Totalavvärd beräknat svavel %	Gips %	Sp. vikt
	Tot. SO <sub>2</sub> %	Fri SO <sub>2</sub> %	Bund. SO <sub>2</sub> %	Ca %	Bund. SO <sub>2</sub> %						
1	3,96	—	—	0,66	1,01	—	2,18	2,04	+ 0,11	0,27	—
2	4,33	3,17	1,16	0,66	1,06	+ 0,16	2,37	2,23	0,14	0,29	1,0347
3	3,69	2,86	1,13	0,67	1,03	+ 0,10	2,01	1,91	0,10	0,26	1,0357
4	4,02	2,87	1,15	0,68	1,04	+ 0,11	2,21	2,08	0,13	0,28	1,0374
5	4,28	3,23	1,05	0,68	1,02	+ 0,03	2,29	2,22	0,07	0,32	1,0380
6	4,36	3,30	1,06	0,71	1,07	+ 0,01	2,39	2,26	0,13	0,32	1,0407
7	4,12	3,01	1,11	0,72	1,05	+ 0,06	2,21	2,15	0,06	0,38	1,0388
8	3,83	2,72	1,11	0,72	1,08	+ 0,03	2,09	1,99	0,10	0,32	1,0370
9	3,74	2,86	1,16	0,73	1,09	+ 0,09	2,08	1,95	0,13	0,33	1,0364
10	3,58	2,44	1,14	0,74	1,12	+ 0,02	2,02	1,87	0,15	0,32	1,0340
11	4,38	3,38	1,20	0,74	1,10	+ 0,10	2,55	2,38	0,17	0,37	—
12	3,72	2,86	1,16	0,75	1,11	+ 0,08	2,03	1,94	0,09	0,36	1,0373
13	3,53	2,32	1,23	0,76	1,14	+ 0,07	1,93	1,86	0,07	0,35	1,0362
14	4,28	3,10	1,18	0,76	1,09	+ 0,09	2,33	2,23	0,08	0,45	1,0399
15	3,39	2,12	1,27	0,78	1,14	+ 0,13	1,87	1,79	0,08	0,40	1,0355
m	3,96	2,81	1,15	0,72	1,07	0,078	2,17	2,06	+ 0,11	0,33	—

This can be accomplished in various ways. For example (a) by employing a suitable temperature for the water and gases in preparing the acid; (b) by employing a gas with a high sulphurous acid content; (c) by leaving the freshly prepared liquor as short a time as possible in contact with the gases which contain acid, hence, also, with the oven or furnace gases. Calcium sulphite, in particular, oxidizes very easily to sulphate.

Tabell 4.

Analys nr	Titr. tot. SO <sub>2</sub> %	Ca %	Ca SO <sub>4</sub> %	Temp. C	Analys nr	Titr. tot. SO <sub>2</sub> %	Ca %	Ca SO <sub>4</sub> %	Temp. °C.
2	4,12	0,66	0,26	29	15	4,00	0,69	0,24	32
3	3,74	0,67	0,36	27	16	3,63	0,69	0,24	34
4	4,06	0,68	0,33	30	17	4,14	0,70	0,23	35
5	3,99	0,69	0,37	29	18	4,16	0,71	0,23	35
6	3,80	0,70	0,46	25	19	3,74	0,72	0,23	32
7	3,88	0,70	0,29	25	20	3,86	0,72	0,24	34
8	4,33	0,70	0,19	30	21	4,08	0,72	0,27	32
9	4,60	0,70	0,32	25	22	4,18	0,72	0,29	31
10	3,83	0,72	0,35	22	23	4,31	0,72	0,26	41
11	3,86	0,72	0,24	27	24	4,05	0,73	0,24	31
12	3,97	0,70	0,25	29	25	4,09	0,75	0,24	34
13	4,86	0,78	0,29	22	26	4,08	0,76	0,26	31
					27	4,26	0,76	0,26	35
m.	4,06	0,70	0,31	27	m.	4,02	0,72	0,26	33,5

From what has been said above it appears that the so-called sulphite boilers are wholly unsuited (see c) to the production of the cooking acid, especially when a greater ratio of weak SO<sub>2</sub> (for example from pyrites or sulphur burners) is employed (see b), and this is especially the case when the water used for preparing the liquor is warm (see a).

The results obtained in these researches show, as has been observed before, the need for further investigations of the composition of sulphite liquor and also of the reactions which are

present in the gases. By means of the analyses it has been shown that Winkler's method is only fitted for a very rough analysis of the sulphite liquor, but the question arises whether, as this is often the case when no regard is paid to the quality of the wood, a close and accurate analytical method is absolutely necessary. In the tests made during these researches, I have used a method of estimating the quantity of lime in the liquor that should fulfil all the requisites of accuracy. Although this method seems particularly difficult, an expert laboratory worker can carry through six to eight tests in an hour.

## Wood Cellulose Not to Displace Cotton

WASHINGTON, D. C., February 9, 1920.—E. W. Thompson, connected with the Bureau of Foreign & Domestic Commerce, Department of Commerce, who has recently returned from Germany, in a recent statement has the following to say in connection with artificial cotton in Germany:

"We all remember the great depression in the price of cotton at the outbreak of war, and how we prevailed on the Allies to allow us, as a neutral, to ship cotton to Germany during the first part of 1915. After May of that year, however, all cotton of every description was practically cut off from Germany, and while a great accumulation had been laid in before that time—about 1,500,000 bales—it soon became apparent that all available cotton from stocks, from Turkish imports and from smuggling over all frontiers, would certainly be needed for textiles. Thus wood came to be the exclusive source of cellulose for explosives.

"Making cellulose from wood was no new thing, even on a gigantic commercial scale; for all paper is practically pure cellulose, most of it made from wood. But the use of wood cellulose for explosives, though often tried, had never been a practical success. This was partly because the cheapness and abundance of cotton linters and rags precluded the thought of a substitute.

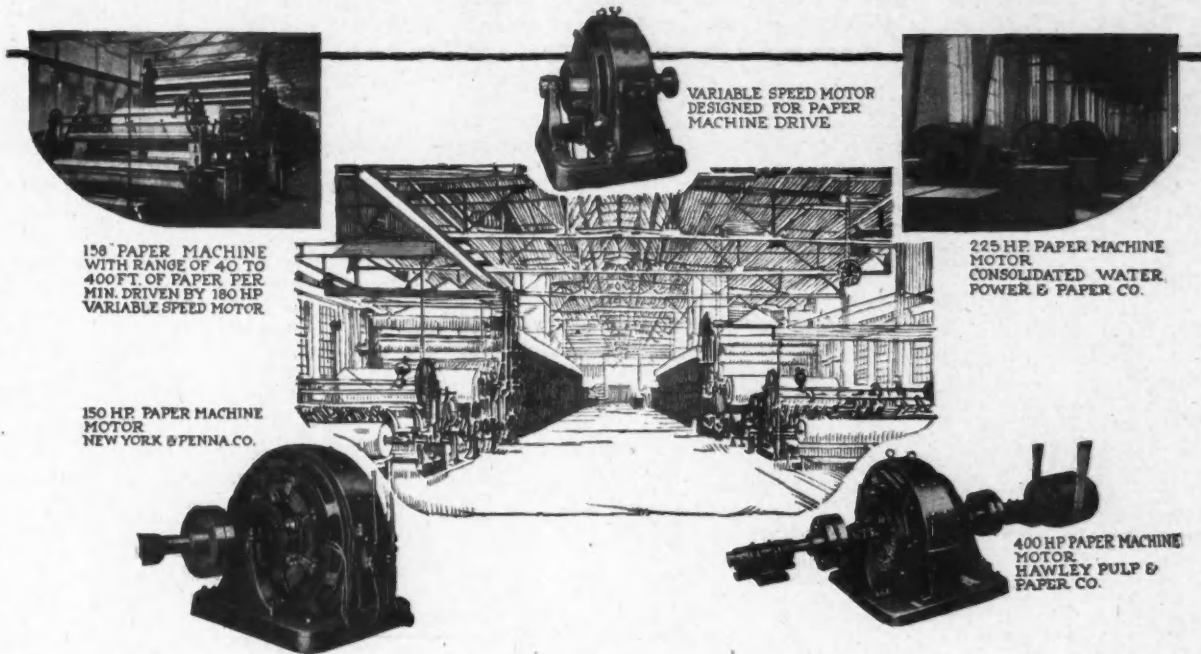
"Wood cellulose became so successful as a substitute for cotton cellulose that German propaganda proclaimed it all over the world as a final substitute for cotton in textiles. Even American cotton planters began to fear that a market for 2,500,000 bales had gone, with a suspicion that the whole 9,000,000 bale export market would soon follow. Now, the facts of the case are these: wood pulp paper of a certain kind was cut into strips of ¼ to ½ inch wide and twisted into a yarn on regular cotton spinning machinery, woven on regular cotton and woolen looms, and printed or dyed to look exactly like cotton or woolen goods. The cloth so made was used for underclothing, shirts, outer clothing and even overcoats. In the fall of 1917 there was an exposition in one of the German cities conducted expressly to show these goods. This was for the purpose of keeping up the courage of the German people and even more for sustaining the wonderful bluff that was to persuade neutral countries to join in with the side that would be sure to win.

"It soon became evident to the users of these paper textiles that (as it was to the manufacturers from the first), that they would not stand the weather and would not even stand washing. More or less successful attempts were made at waterproofing; but the final answer has come with the close of the blockade for every minute the whole German nation is howling for American cotton at any price, while the German forests are still in being, and wood cellulose plentiful."

## Fall Mountain Pad Co. to Increase Stock

BELLOWS FALLS, Vt., February 9, 1920.—The Fall Mountain Pad and Paper Company has petitioned the secretary of State at Montpelier to be allowed to increase its capital stock from \$10,000 to \$50,000.

*The widespread use of G-E paper machine drives gives proof of satisfactory operating records.*



158 PAPER MACHINE WITH RANGE OF 40 TO 400 FT. OF PAPER PER MIN. DRIVEN BY 180 HP VARIABLE SPEED MOTOR.

150 HP PAPER MACHINE MOTOR NEW YORK & PENNA. CO.

VARIABLE SPEED MOTOR DESIGNED FOR PAPER MACHINE DRIVE

225 HP PAPER MACHINE MOTOR CONSOLIDATED WATER POWER & PAPER CO.

400 HP PAPER MACHINE MOTOR HAWLEY PULP & PAPER CO.

**Acres of paper per minute made by G-E Motor-Driven Machines**

**I**N many of the largest paper mills in the United States, G-E paper machine drives are installed. These machines can produce 228 acres of paper per hour.

A few of these drives are illustrated above and a complete list will be sent on application.

The advantages realized by users of these drives are wide speed range, close regulation, low maintenance and ease of operation.

**General  Electric Company**  
 General Office Schenectady, N.Y.

## PRACTICAL QUESTIONS AND ANSWERS FOR MILL MEN

A Department for the Solution of the Troubles, Large and Small, That Are Encountered by the Workers in the Mills in the Course of Their Duties in Making Paper and Pulp—All Mill Men Are Invited to Send in Both Questions and Answers—A Free Exchange of Ideas Is Desired—By Active Co-operation This Department Can Be Made a General Clearing House for Information in Regard to Practical Paper Making.

### Life of Felts

In reference to Question No. 2,479 on the life of felts, and in addition to the answer given, I will say that it is of great importance to the long life of felts to use the utmost caution, when putting them on the machine, to prevent oil or grease spots from getting on the felt. The journal of every roll and every part of the machine frame, with which the felt is apt to come in contact, should be thoroughly wiped dry before the felt is put on. The man who is in charge of putting on felts should see to it that not a spot of grease or oil gets on the felt. If he does not do this, he is not only unfair to his employer and to the maker of the felt, but he also causes himself and his co-workers much trouble during the run of the felt, by having more breaks and more washups, due entirely to getting grease on the felt when it was put on the machine. The ten or fifteen minutes taken to insure a clean felt at the start will be made up one hundred times during the life of the felt. Those few minutes may mean the difference between maximum production, minimum breaks, long run for the felt, or reduced production, by excessive breaks, frequent washing of the felt and the shortening of the life of the felt.

### Variation in Finish

Question No. 2,485.—Last summer we made an order of antique finish book paper. The finish was a very important matter to the customer, and was obtained by careful weighting of the presses and run without any calendaring. Last month we ran this order again, using the same finish, and everything was run the same way on the machine, but the paper was not the same in quality as the previous run. It seemed to be stiffer to handle and the surface seemed to be much rougher and uneven. The formation was the only thing about it which matched the previous run. Could you suggest anything in your Practical Department to explain what may have caused this variation in quality between duplicate runs of paper?

*Answer No. 2,485.*—The most probable cause for your variation is the difference between free stuff and slow stuff. Your second run being harder and rougher and more uneven in surface would indicate that your stuff was much slower on your second run than on the previous run in August. The slow stuff, by its very nature, makes a harder, stiffer and stronger sheet than free stuff. The slow stuff is much harder to dry, therefore you had to force your drying, which caused the rougher finish and uneven texture of the surface, being brought about by the steam being violently forced from the sheet while passing over the dryers. This difference in the stuff might possibly be explained by the much colder temperature of your stock in the beaters, especially if you use fresh water.

### Fire Damage Big at Rumford Paper Mill

RUMFORD, Me., February 10, 1920.—The wood room and one end of the Oxford paper mill here were badly damaged last week in a fire of undetermined origin which caused a damage estimated at \$25,000.

### Canadian Paper Exports

Canadian pulp and paper exports for November, according to the Canadian Pulp and Paper Association, reached a total value of \$9,016,987, an increase of \$1,861,137 over those of the corresponding month of 1918. The distribution was as follows:

	1918	1919
Paper and Mfgs. of.....	\$3,812,705	\$4,911,514
Pulp, chem. prep. ....	2,943,294	3,108,065
Pulp, mech. ground .....	399,851	997,408
<b>Totals .....</b>	<b>\$7,155,850</b>	<b>\$9,016,987</b>

Exports of news print for the month totaled 1,136,651 cwt., valued at \$4,159,078, of which 1,081,514 cwt., valued at \$3,952,162 went to the United States, and 23,548 cwt., valued at \$84,414, to the United Kingdom the rest being scattered.

Paper board shipments amount to \$313,860 in value; roofing paper to \$129,210, and wrapping paper to \$214,937.

Pulpwood exports amounted to 60,098 cords, valued at \$635,361 against 85,239 cords, valued at \$866,361 in November, 1918.

Total pulp and paper exports for the first eight months of the fiscal year of 1919, amounted in value to 064,626,540 against \$53,954,984 in 1918, an increase of \$10,671,556 for 1919 distributed as follows:

	1918	1919
Paper and Mfgs. of .....	\$28,886,120	\$37,985,676
Pulp, chem. prep. ....	21,760,738	21,082,402
Pulp, mech. ground .....	3,308,126	5,558,462
<b>Totals .....</b>	<b>\$53,954,984</b>	<b>\$64,626,540</b>

Exports of unmanufactured pulpwood for the eight months period amounted to 1,132,987 cords, valued at \$10,846,864 in 1918, against 631,941 valued at \$6,321,540, 1919, a decrease of 501,046 cords in quantity and of \$4,525,324 in value for the later period. Exports of pulpwood have been gradually declining throughout the year.

### National Standard Catalogue Size

The Standardization Committee of the National Association of Purchasing Agents, 25 Beaver street, New York, issued the following notice regarding catalogue sizes:

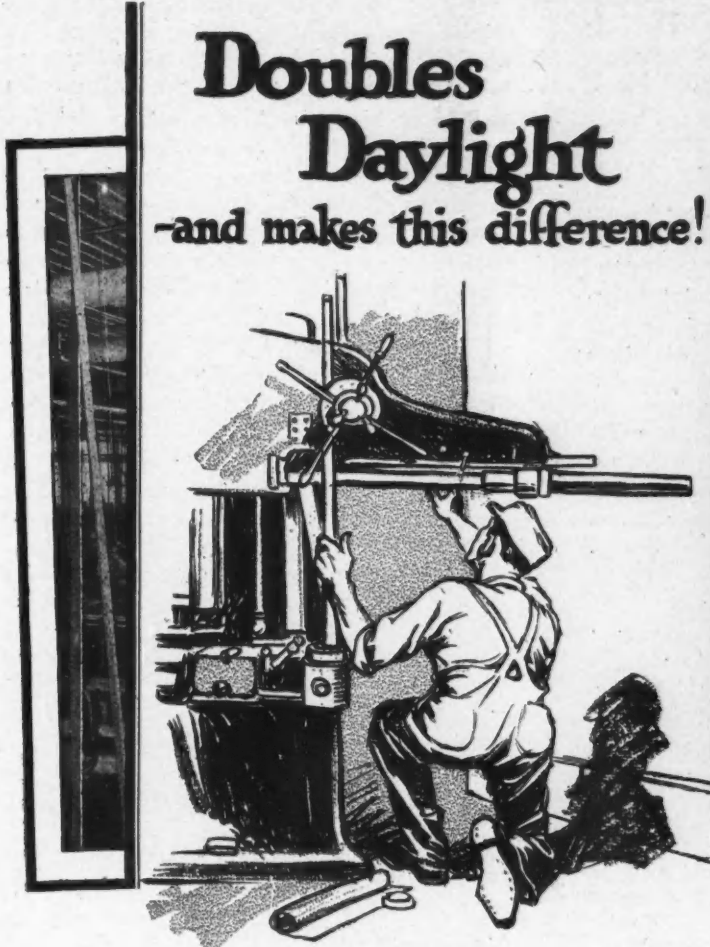
"There seems to be a misunderstanding as to catalogue size adopted by the National Association of Purchasing Agents.

"The association has adopted one, and only one, size, 7½" x 10½", with its half tone, 5¼" x 7¼", when saddle stitched so that it may be opened up flat for filing.

"This size was arrived at by the Standardization Committee after a very thorough research, and the association having approved the choice of this size is actively pushing for its general use. The National Retail Hardware Association has concurred in its adoption, as has the National Association of Brass Manufacturers. The United Typothetae, and a large number of manufacturers issuing catalogues."

# Doubles Daylight

-and makes this difference!



*Cheney Bros., one of the greatest producers of silks and fine fabrics in the country, have eliminated dark corners in their great mills by using "Du-Lite" Gloss White Mill Paint.*

—gets a profit  
out of dark corners

Right in your plant today you may find a lot of dark corners that do nothing but get cluttered up with junk and rubbish. Waste space—wasted profits.

"Du-Lite" will correct this condition. It will let you get a profit out of every square foot. Its gleaming whiteness will light up the dimmest places in your plant. It will actually add to your floor space. Its use even in the most carefully designed plants means better light and more pleasant surroundings for your workmen. This means increased production and increased profits.

For over a century the Du Pont name has been the sign of progress and leadership. The Du Pont Oval on any product is your guarantee that it is—the finest that scientific production, unlimited resources and genuine desire to serve can produce.

**E. I. du Pont de Nemours & Company, Inc.**

*Sales Dept.: Paint and Varnish Division*

**WILMINGTON, DELAWARE**



# Editorial

Vol. LXX. New York, February 12, 1920 No. 7  
FORTY-EIGHTH YEAR

## Pulp Wood Embargo

Senator Underwood's resolution to provide for removing the embargo on pulpwood on Crown lands in Canada, has naturally aroused great interest on both sides of the line. American holders of pulpwood limits, of course, are strongly in favor of the measure, but judging by reports coming from Canada it is not very likely that the embargo will be removed. Canada's side of the argument is presented in a letter from the Montreal correspondent of the PAPER TRADE JOURNAL, printed elsewhere in this issue. The American side of the contention was interestingly presented in a circular issued some time ago by one of the large paper companies, which, in part, is reprinted herewith.

"About 5,500,000 cords of pulpwood were consumed in the manufacture of all kinds of paper and woodpulp products in the United States in 1918.

"Of this, about 1,800,000 cords went into news print.

"Foreseeing the scarcity of spruce pulpwood in the United States as far back as 1890, paper manufacturers leased Crown land limits in the woodland provinces of Canada, and, until 1910, cut the wood and shipped what they needed to their mills.

"In 1910, Quebec, the province richest in timber resources, prohibited the export of wood cut on Crown lands unless manufactured into lumber or pulp.

"This was, in effect, confiscation of the large investments in leases, river improvements and wood-preparing plants made by United States paper interests. It stopped the supply of pulpwood to our mills and forced price-raising competition in the purchase of pulpwood from scattered agricultural lots and from the comparatively few and small freehold tracts from which wood may be exported.

"In 1911 the United States passed the Reciprocity Act and opened the big market of this country to the free importation of Canadian news print, with no provision that the operation of the law should be contingent upon action by Canada that would assure a supply of free pulpwood.

"The purpose of Canada's prohibition of the export of pulpwood was to favor her own paper manufacturers, and also, to force United States manufacturers to build mills and manufacture paper in the provinces in which they owned leases.

"The two-fold effect of the legislation in Canada in 1910, and, in the United States in 1911, has been greatly to stimulate news print production in Canada, to depress it in the United States and to advance the cost of what pulpwood is obtainable to a point that makes the cost of manufacture in the United States excessive.

"The release of the pulpwood reserves owned by our manufacturers on the Crown lands of Quebec would afford an indefinite supply of raw material at moderate cost to our paper mills, would reduce and hold stable the selling price of news print and would insure the permanent price-regulating competition of our

mills with the Canadian mills which are not subject to our laws or regulations.

"There is but one way to insure a lower and stable price level for news print. As the cost of pulpwood is the major cost factor in manufacturing this grade of paper, and as wood constitutes 98 per cent. of the product, an assured supply of our mills at a moderate cost will lower the cost of manufacturing and the price to the consumer.

"As lower manufacturing costs will be of direct and permanent benefit to the consumer, it is manifestly the business of the consumer to interest himself in securing an adequate supply of low cost raw material for the manufacturer.

"In this case the publishers are the interested consumers, and their influence, unitedly and energetically exercised, will be sufficient to move Congress to negotiate with Canada, and particularly the Provincial Government of Quebec, the restoration of the property rights in the pulpwood on the Crown land limits acquired by United States interests prior to 1910.

"The closer relationship between the two countries created by common participation in the World War, together with a future to be shaped by aspirations and ambitions almost identical, should make the righting of this old wrong a matter of friendly negotiation and accommodation.

"Quebec is not asked to alter her wise policy of conservation of her resources; she is not required to impair her forest wealth.

"The simple request is, that, in return for our free market and free coal and sulphur for her paper manufacturers, she restore to our manufacturers their rights to *only the annual growth* of timber on the limits they leased before the prohibitive Order-in-Council was made.

"Or, that the word 'manufactured' in the Order, shall be construed to mean 'barked by machinery preparatory to its manufacture into pulp' as applied to timber on the limits leased by our interests prior to 1910.

"Either course would greatly increase the Provincial receipts from stumpage fees, and at the same time provide indefinitely a supply of raw material at much reduced cost to our paper mills.

"Unless these rights be restored in full, or, in modified form, as indicated by the alternative, prices are bound to attain a higher level as pulpwood becomes more scarce and its cost advances to United States manufacturers, for the price of Canadian paper will always follow that created by the manufacturing costs in this country, no matter how much lower the costs in Canada may be.

"The failure of our manufacturers to secure justice in this respect, moreover, will mean the ultimate elimination of the competition of our mills in the news print market and the transfer of the entire news print industry across the border, where corporations, existing under foreign laws, outside the jurisdiction of our courts and not subject to the regulations of this government, may charge such prices as conditions may justify and work their own sweet will with the publishers of the United States."

## Reducing Living Cost

Increased production was urged as a means for reducing the present high cost of living, in a statement issued by Mr. John McHugh, vice-president of the Mechanics and Metals National Bank of New York. Mr. McHugh appealed to the people of this na-

tion to curb extravagance and wastefulness and to make every possible effort to keep production of necessities up to maximum capacity.

Mr. McHugh, who is also chairman of the Committee on Commerce and Marine of the American Bankers Association, has made a special study of the present economic conditions, and believes that in saving and increased production may be found the solution for the present problems confronting the nation.

"As the country has entered upon the new year with its many inherited problems," said Mr. McHugh, "there must be full realization of the necessity for considering these problems intelligently and dealing with them in a constructive way. Altogether too much time has elapsed since the armistice without adequate appreciation of the responsibilities and opportunities with respect to permanent national welfare.

"There has developed widespread extravagance. In individual instances, almost without number, the rule has been 'to idle and buy' and not 'work and save.' The result is the accumulation at high prices of many things which people could have gotten along without, consequent expansion in the scale of living and an appreciable strain on credit.

"Without question, there should be inaugurated, if calamitous conditions are, in the end, to be avoided, a national thrift campaign which will impress on people generally how essential it is that extravagance and wastefulness be curbed, and that signals, in the form of needed cautions given by banking institutions, reinforced by warnings from the Treasury Department and the Federal Reserve Board, be heeded. Along with this every possible effort must be devoted to the keeping up of production of necessities to maximum capacity. It is only by large scale production that our people can, be well and profitably employed, and only by maximum production can they be protected, in the last analysis, from the payment of excessive prices for their own needs."

### Persons Making Mistake Must Bear Loss

In its column devoted to replies and decisions, the *Journal of Commerce* prints the following of interest to the paper trade:

"A company placed an order by telephone with a broker for a specified amount of paper, stating the size of sheets desired, together with the number of pounds per ream and the price per pound. The parties to the transaction were in apparent mutual agreement regarding the conditions noted above. The order was accepted by the broker and immediately placed with his mill, as he maintains there was another buyer for this paper and the mill allowed only a limited time for acceptance. The buyer, following his regular custom, sent by mail to the broker a confirming order, stating the terms and conditions of the transaction, and keeping a carbon copy for his own files. The paper in due time was delivered and was found to be different from the paper ordered, the size of the sheet being larger and the weight of paper heavier per ream. A claim was filed with the broker for a specified sum representing the loss sustained by the purchaser on account of the error. The broker replied that he had never received a confirming order from the buyer and the paper as delivered agreed in every particular with the order as he had understood it over the telephone. He also claimed it was necessary for him to place the order at once with his mill, as there was another purchaser for the paper in question. The buyer maintains that he has a just claim against the broker, since he mailed a formal order confirming the details of the purchase, and he feels his position is further

strengthened in view of the fact he never received any word from the broker that the confirming order had not been received, nor did he receive advice from the broker acknowledging the terms of the order as the latter claims to have understood them over the telephone. The buyer does not think he should suffer loss because the seller took the chance of filling the order before confirming the details. Is he not right?

"Reply.—The broker or his principal is liable for the loss sustained by the purchaser upon this transaction. The written confirming order will sustain the accuracy of the buyer's statement as to the facts. The mistake was clearly that of the seller or his agent, and the loss arising out of that mistake must fall upon them."

### Niagara Falls as Paper Making Center

[FROM OUR REGULAR CORRESPONDENT.]

NIAGARA FALLS, N. Y., February 9, 1920.—Burt C. Crittisinger, wholesale pulpwood dealer in this city, predicts that in the very near future Niagara Falls will be one of the greatest papermaking centers in the United States. Mr. Crittisinger, who has a year's contract for supplying the new Kimberly-Clark company mill to be built here this spring with spruce logs, says:

"Owing to special advantages which this city possesses, Niagara Falls quickly takes pre-eminence in the papermaking trade. The advantage of getting pulpwood from the source of supply in Canada are greater here than anywhere else in this country. The abundant water supply, available power and accessibility to the Canadian pulpwood supply are the main factors favoring Niagara Falls as the logical papermaking center."

The Kimberly-Clark company, which has its headquarters in Neenah, Wis., has already ordered the machinery for its paper mill and the contractors will start work building when the frost gets out of the ground. The mill is expected to be in operation in September.

### Toronto Men Buy Rainy River Paper Co.

[FROM OUR REGULAR CORRESPONDENT.]

TORONTO, Ont., February 10, 1920.—E. M. Davis and a group of Toronto men have bought the Port Mellon plant of the Rainy River Pulp & Paper Company in British Columbia. The plant has been idle for some months, but will soon be put in operation turning out kraft pulp. The present capacity is twenty tons a day, but this will be doubled by the installation of new equipment. The Toronto people have already bought 20,000 acres of Crown grant timber and coal lands near Port McNeill on Vancouver Island where 550,000,000 feet of timber have been cruised. The new concern also has water rights on the Rainy River and it is reported will operate the Port Mellon mill by water power.

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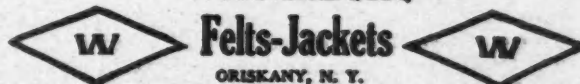
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## IMPROVEMENT IN PULP-SCREENING

Anton J. Haug, of Nashua, N. H., has been granted a patent for an improvement in pulp-screening which the inventor describes as follows:

This invention relates to pulp screens, and more particularly to screens of the type where the screening action is assisted by a relative movement between the stock and the screening surface in a direction of translocation adapted to carry the stock through the screen, as, for example, by a vibratory or oscillatory movement of the screening surface through the stock.

The invention will be best understood by reference to the following description when taken in connection with the accompanying illustration of one specific embodiment thereof, while its scope will be more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is an elevation in partial section showing a screen embodying one form of my invention;

Figure 2 is a diagram illustrating the movement which is imparted to the screen drum of the screen shown in Fig. 1;

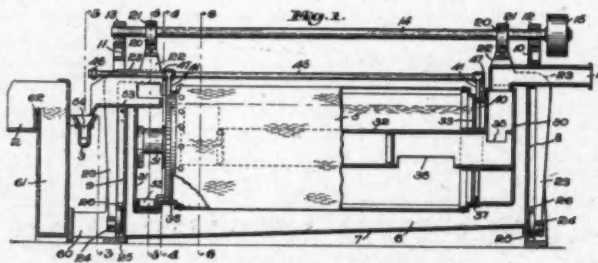
Figure 3 is a sectional elevation taken on the line 3—3 in Fig. 1 looking in the direction of the arrow;

Figure 4 is a similar section on the line 4—4 in Fig. 1;

Figure 5 is a similar section on the line 5—5 in Fig. 1; and

Figure 6 is a similar section on the line 6—6 in Fig. 1.

Referring to the drawings, and to the embodiment of the invention which is there shown for illustrative purposes, I have shown a screening apparatus having an inlet 1 for the stock to be screened, a discharge 2 for the screened stock, and a waste pipe 3 for the tailings. The screening member may be of any desired form or construction, but is here shown in the form of a cylindrical drum 5, to the interior of which the stock is fed from the inlet 1, said drum being partly or wholly sub-



merged within a surrounding tank or chamber 6, the latter formed by the main casing 7 and the end casing heads 8 and 9.

While the relative translocating displacement between the stock and the screening member may be secured by other means, herein such displacement is effected by giving the screen drum itself a vibratory movement, while maintained submerged in the tank. In addition to the vibratory movement, there may be, and herein is, imparted to the screen drum also a movement of rotation.

To effect the vibratory movement of the screen drum, the latter is suspended upon supports which are given a compound oscillatory movement, so that a vibration is imparted to the drum, not only vertically, but horizontally as well. To this end, the head members 8 and 9 are extended up to form arches 10 and 11 for supporting the journal bearings 12 and 13 for the

driving shaft 14, the latter being driven from any suitable source of power through the driving pulley 15.

At each end of the tank 6, and directly over the same, the shaft 14 is provided with an eccentric 20 on which are suspended, by means of the eccentric straps 21, the supporting yokes 22 for supporting the ends of the screen. These yokes, as indicated in Figs. 4 and 5, are fastened to the end of the screen supports and, as will fully appear, the screen partakes of the movements imparted to the yoke members 22. To assist in guiding the vibratory movements of the screen, the opposite arms of each supporting yoke are secured to, or



formed integrally with, horizontal extensions 23 which project over beyond the end plates or casing 8, thence downwardly to a point near the bottom of the casing where they unite to form a pivotal connection at 24 with the vertically sliding block 25, the latter being guided for a limited vertical movement by the vertical guideways 26 formed at the bottom of the end plate or casing. The extensions 23 constitute a link connection which is pivotally joined to the vertical sliding block 25 and to the supporting yokes 22, so that, as the shaft 14 is rotated, the screen is not only vibrated vertically, but is given a rocking movement laterally about its pivotal connection with the block 25, thereby vibrating the screen within the limits indicated in Fig. 2, and causing every part of its submerged surface, the sides as well as the bottom, to be reciprocated and passed through the stock in a direction normal to the surface of the screen in some portion of its cycle of movement.

Rotary movement of the screen 1 is effected upon its end supports, the screen being suspended at the inlet end by means of the end support 30, and at the outlet end by means of the end support 31, these end supports partaking of the vibratory movement of the drum, but being herein shown as non-rotatable. The end supports 30 and 31 are connected by an axial, tubular member 32, on which the screen drum is adapted to turn, the drum being provided with preferably imperforate heads 33 and 34 journaled on the tubular member 32 and serving both as supports for the screen drum, and as end closures therefor.

The inlet pipe 1 is carried by and connected to the end support 30, the latter forming an inlet or receiving chamber from which the stock passes into the tubular member 32 through an opening 35, thence through the end closure 33 and into the interior of the screening drum through an opening 36 in the tubular member 32. The closures 33 and 34 for each

(Continued on page 48)



We believe that American business can be lifted from its present uncertainty only by constructive co-operation—the substitution of intelligent competition for blind, destructive competition.

## WITH MALICE TOWARD NONE

The Fourdrinier Wire Manufacturers who are doing the unselfish work and bearing the expense of the co-operative movement for the benefit of the industry have no malice toward those few manufacturers who elect not to participate. There is no tendency to blame or punish such producers, though the Council, and the Bureau directing it, insist that misrepresentation of the co-operative movement is unfair competition, and will not hesitate to institute proceedings under the laws concerning such practices.

## AND CHARITY TOWARD ALL

The Council prefers to believe that there are sometimes reasons for nonparticipation besides selfish desire to profit by the work of others. It recognizes the possibility of such reasons and the right of the manufacturer to determine for himself the benefits of putting his shoulder to the wheel of industrial progress.

Questions are welcome.

**PAPER MACHINE WIRE MANUFACTURERS' INDUSTRIAL COUNCIL**

*Directed by the Armstrong Bureau of Related Industries.*

11 La Salle Street, South, Chicago, Illinois

## IMPROVEMENT IN PULP-SCREENING

(Continued from page 46)

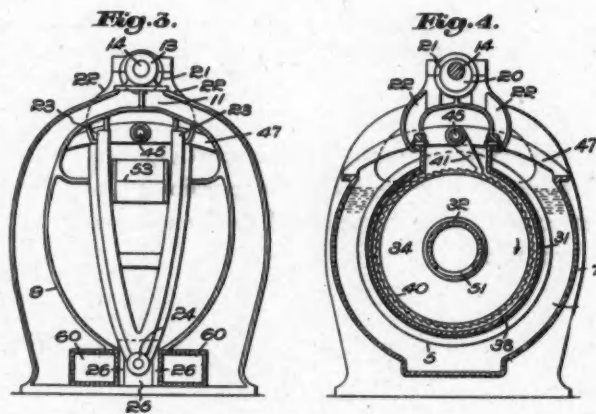
end of the screen drum form a close-fitting joint with the end supports 30 and 32, which is protected by the packing rings 37 and 38 covering such portions of the joint as are submerged and exposed to the leakage of stock.

The vibratory movement of the screen drum is availed of also to give a slow rotary movement to the drum. For this purpose the end closures 33 and 34 have each formed upon them a ratchet ring 40, the teeth of which are adapted to be engaged by a pawl 41 pivoted at a point fixed on the stationary frame, so that, as the drum is given the described movement, the pawl serves to rotate the drum about the tubular member 32 step by step (in the direction of the arrow shown in Fig. 4), the pawl being caused to engage successive teeth in the ratchet ring 40 as the latter vibrates or oscillates with the screen drum. The two pawls 41 may be pivoted upon any fixed part of the apparatus, but herein for convenience they are pivotally supported upon the arch-shaped supporting brackets 47 which rest on the casing 7. The brackets 47 also serve to support a shower pipe 45, the latter connected to any suitable source of shower water at 46, the pipe extending lengthwise over the top of the screen drum and adapted to deliver shower water to the unsubmerged top thereof.

Discharge of the tailings from the screen drum takes place through the mouth of the discharge member 50 (Figs. 1 and 6), the latter opening into the tubular member 32, and preferably having its mouth placed at such an elevation as to maintain a high level of unscreened stock within the screen drum, as indicated in Fig. 6. The exit end of the tubular member 32 being shut off from the inlet end thereof by the partitions indicated in Fig. 1, the tailings pass from the discharge member

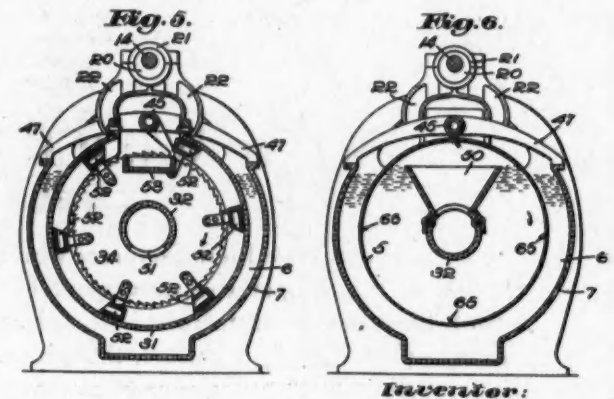
the chamber 61, over the preferably adjustable plate 62 to the discharge 2, and thence to any suitable reservoir or receptacle. The plate 62 maintains a head within the chamber 6, which is preferably somewhat lower than the head within the screen drum 5, but by making the plate vertically adjustable the head within the chamber may be adjusted as required.

To assist in the screening operation, the interior of the drum 5 may, if desired, be provided with projecting members, such



50 axially through the drum head 34 and through a discharge opening 51 into a discharge chamber formed within the end support 31, where the tailings are carried up by a series of scoops or lifters 52 which are secured to the drum head 34 to rotate therewith. From the scoops or lifters 52, the tailings are discharged upon an elevated discharge plate or chute 53, from which they pass out through the end of the casing and are delivered into the waste conduit 54.

As the screened stock passing from the interior to the exterior of the screening drum accumulates within the surrounding chamber, it passes from the chamber 6 through the divided or double discharge passages 60 (Figs. 1 and 3) into

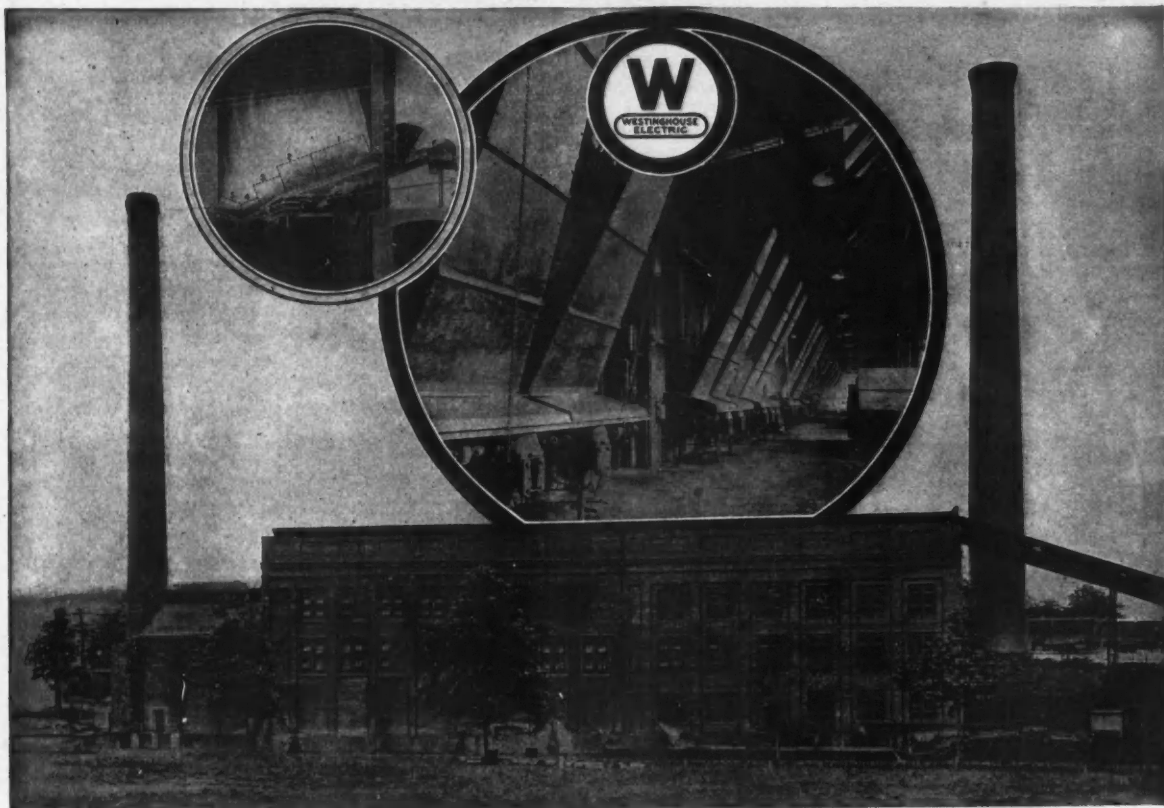


as the paddles or blades 65 which are arranged longitudinally on the interior of the drum surface, and, as shown, are inclined slightly in the direction of rotation of the drum. These projecting blades serve to increase the vibratory, agitating and transcolating effect of moving the screen and also serve to bring within the radius of action of the shower water any accumulations of unscreened stock.

In the operation of the apparatus, the unscreened stock is fed to the screen drum through the inlet 1 under any suitable head, the arrangement of the plate 62 and the discharge orifice 50 being preferably such as to maintain the screen drum well submerged throughout its sides as well as its bottom. As the stock is flowed through the screening apparatus, the shaft 14 is rotated, effecting a compound, vibratory movement of the screen in substantially all directions, including a horizontal as well as a vertical direction, thus rendering the entire submerged surface, sides as well as bottom, effective for the screening action. With each vibratory movement of the screen, a slight rotative movement is also effected. This not only increases the efficiency of the screening action by rotating as well as vibrating the screening surface, but also washes successive portions of the screening surface through the shower water. These movements not only provide for a reciprocatory movement of the screening surface at right angles thereto, and for a movement of the stock transverse or across the surface, due to the rotation of the drum, but also for a relative movement of the stock lengthwise the surface due to the progressive feed or flow of the stock under its head through the screening apparatus. In addition to this, the stock, and particularly the solid accumulations thereof, is further agitated, turned over and washed by the action of the interior blade 65.

The invention, as to some of its features, might be embodied in a screening apparatus where the tank or casing, or the material within the same, is vibrated while the screen remains stationary. Where the screen is vibrated, however, the moving

(Continued on page 66)



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### Big Demand for Board in St. Louis

[FROM OUR REGULAR CORRESPONDENT.]

St. Louis, Mo., February 9, 1920.—St. Louis paper board companies and agencies for eastern concerns are unable to supply the enormous demand for board which is being made on them at present by the box and paper-can manufacturers, according to a survey made of the local field. While all mills are running on a twenty-four hour schedule of production, the present facilities are inadequate for the demand of the trade, and as a result the mills are losing vast volumes of business. It is estimated that many of the eastern mills might produce from 100 to 300 per cent more raw material and still fall short of the mark set by the desired expansion.

According to the local paper board men the fault for the lack of capacity progress is not only due to the shortage of wood pulp, but can be appropriately ascribed to the delinquency of the manufacturers of mill machinery. It is the consensus of opinion that the antique methods employed by the machinery manufacturers is directly responsible for the inability to fill pressingly large orders. Much business is being turned down in St. Louis due to this unusual condition.

Twenty-five years ago, paper board men say, the industry was preparing itself for a tremendous increase in its production. Facilities were enlarged and sales forces were increased proportionately to supply the expected demand. When this demand did arrive and paper board was realized by packers and merchants to be much more suitable and considerably less in weight than wooden boxes, the paper board men were inundated by the flow of orders. The paper bag and the tin can were giving way to the cardboard box which was neater, less bulky, and could be shipped at a decreased rate. This trend of the industry found the enlarged plants to be miniatures and unable to cope with the new situation. And although the various factories and mills have begun to keep apace with the times, the slow and costly methods

of the mill machinery manufacturer are still acting as a detriment to the trade. It is this condition that paper board men are protesting today.

Many mills are working on a 200 and 300 per cent increased output, but could handle considerably more volume, it is said.

### News of the St. Louis Trade

[FROM OUR REGULAR CORRESPONDENT.]

St. Louis, Mo., February 9, 1920.—The Mack-Elliott Paper Company, now located at 315 Valentine street, has taken a lease on the building now occupied by the United Drug Company on Third near Vine streets. The lease is for a long term. The building contains 5,000 square feet of floor space, sprinkler system, heating plant, two elevators and has two entrances, one on Third street and one on Vine street. Occupancy will not be had until the drug company completes its buildings on Natural Bridge avenue, where it is spending \$2,000,000.

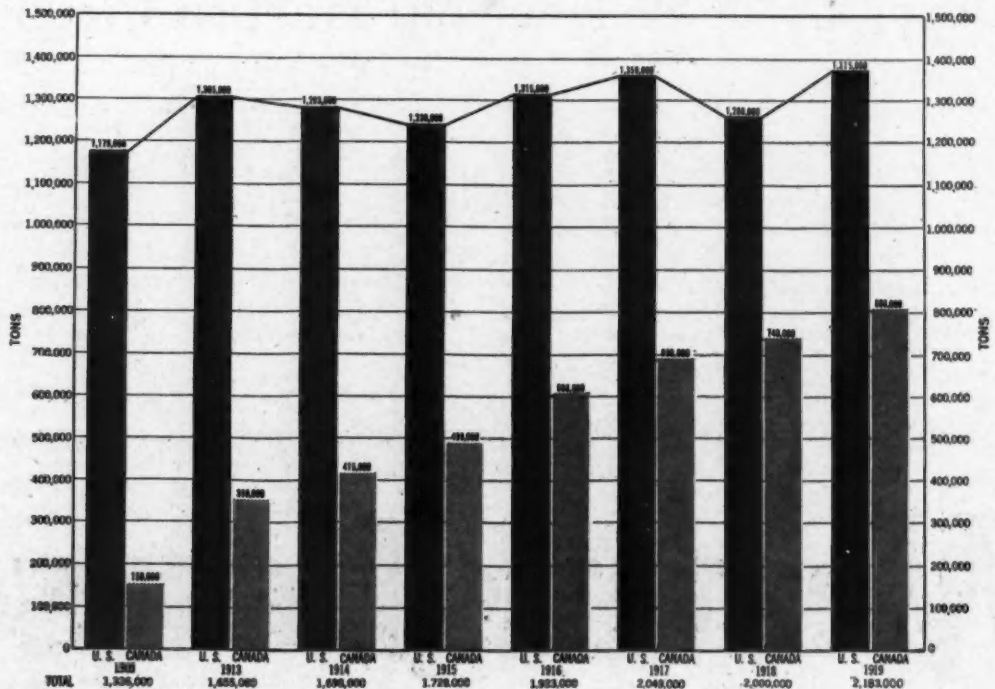
Notice has been served to the public that they must bring their own containers when they come to shop at the Government retail food store. The store previously furnished bags, but it is announced that the paper shortage has made it impossible to get bags.

### Birmingham to Have Paper Mill

[FROM OUR REGULAR CORRESPONDENT.]

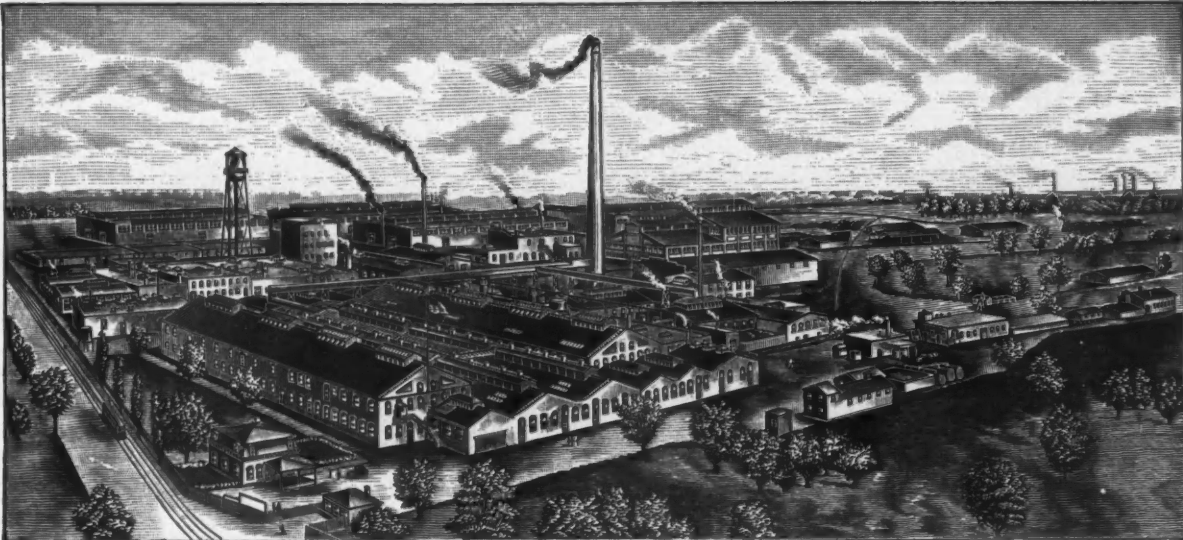
BIRMINGHAM, Ala., February 10, 1920.—Birmingham soon will have a paper mill with a capacity of 50 tons daily, according to an announcement Saturday by B. G. Ridgway, president of the Ridgway Paper Stock Company. He stated that work on the mill would begin as soon as a suitable location could be found. It is planned to have the most modern paper making machinery available installed and the approximate cost will be in the neighborhood of \$250,000.

NEWS PRINT PRODUCTION, 1909-1919, UNITED STATES AND CANADA



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## Recent Incorporations

H. BRIMBERG, Manhattan, New York, burlap, twines and cordage, capital \$35,000. Incorporators: H. and S. and J. Brimberg, 546 Pearl street.

ARCO-PAK FOLDING BOX CORPORATION, Manhattan, New York. Active capital, \$150,000. Incorporators: J. Danziger, A. A. Hoffman, U. S. Adler, 35 Nassau street.

KIMBERLY-CLARK COMPANY, Niagara, New York, make paper and products, capital \$2,000,000. Incorporators: J. C. Kimberly, F. J. Sensenbronner, R. Kelly, 51 Chambers street.

THE MENDELSON BOX & PACKAGE COMPANY, of San Antonio, Tex; capital \$10,000. Incorporators: Max Mendelsohn, Grover J. Mendelsohn and Ramon Febies.

### Paper Box Associations Merge

[FROM OUR REGULAR CORRESPONDENT.]

St. Louis, Mo., February 9, 1920.—The Western Paper Box Manufacturers' Association will hereafter be known as the Western Division of the National Paper Box Manufacturers' Association as the result of a merger finally brought about by unanimous adoption of a resolution to that effect, proposed at the thirty-sixth annual convention of the western men at the Hotel Statler recently. More than 150 delegates attended the convention, representing approximately 125 concerns throughout the Mississippi Valley.

The amalgamation of the two organizations under one central head was the culmination of months of work on the part of leaders of both sides. It was pointed out that under present centralized conditions the welfare of the paper box industry in general over the entire nation might be handled more easily and the trend of affairs would be enabled to travel more expeditiously.

The officers elected for the 1920 term of office were named at the Thursday afternoon session, January 29, and are: Chairman,

P. H. Ritchie, of Chicago; vice-chairman, H. O. Alderman, of Rochester, N. Y.; Board of Advisors, James L. Kalleen, of Indianapolis; George J. Kraeck, of Chicago, former chairman; S. R. Sweet, of Denver, and J. H. Cochrane, of Des Moines, Iowa, former secretary.

The convention devoted considerable discussion to the naming of the convention city for 1921, but finally agreed upon Cincinnati. The meeting will be held on the same day of the present convention.

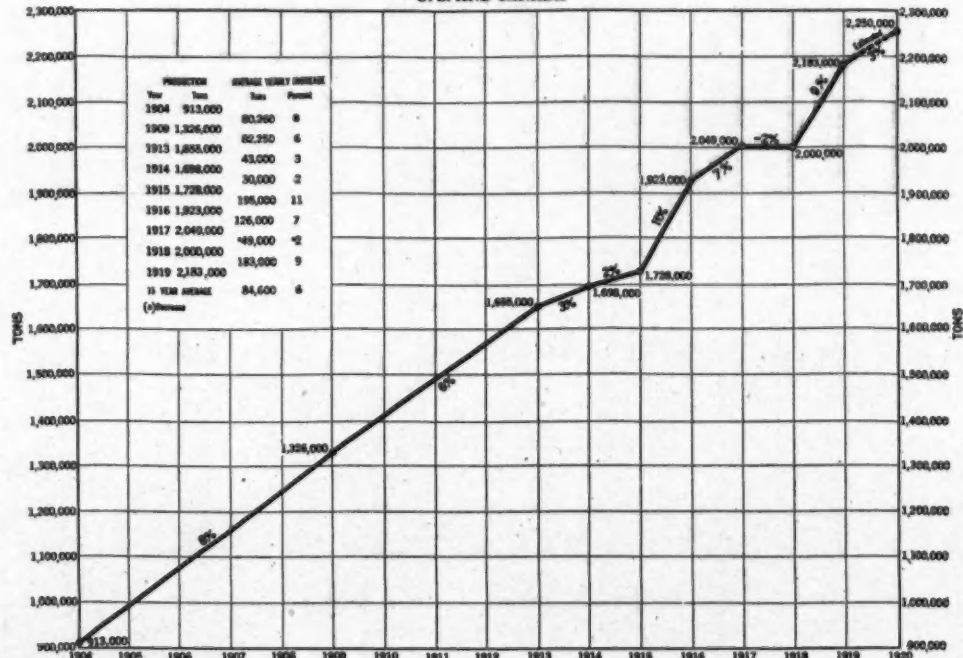
The keynote of the general concern of the delegates attending was the cost question. Delegates aired their views on unifying trade with the idea of reducing the costs of operation and bringing about an increased efficiency.

Complaint was registered by many visiting paper box men against the delays experienced in dealing with the manufacturers of machinery. Representatives of the Holman Paper Box Company of St. Louis were unusually vehement in their denunciation of the machinery men as a whole and their protests were met on all sides by like criticism of the paper box men on the part of machinery manufacturers. The Holman people declared that they had often waited as long as two years to get an order filled and that corresponding service to the consumer had caused them considerable loss of trade.

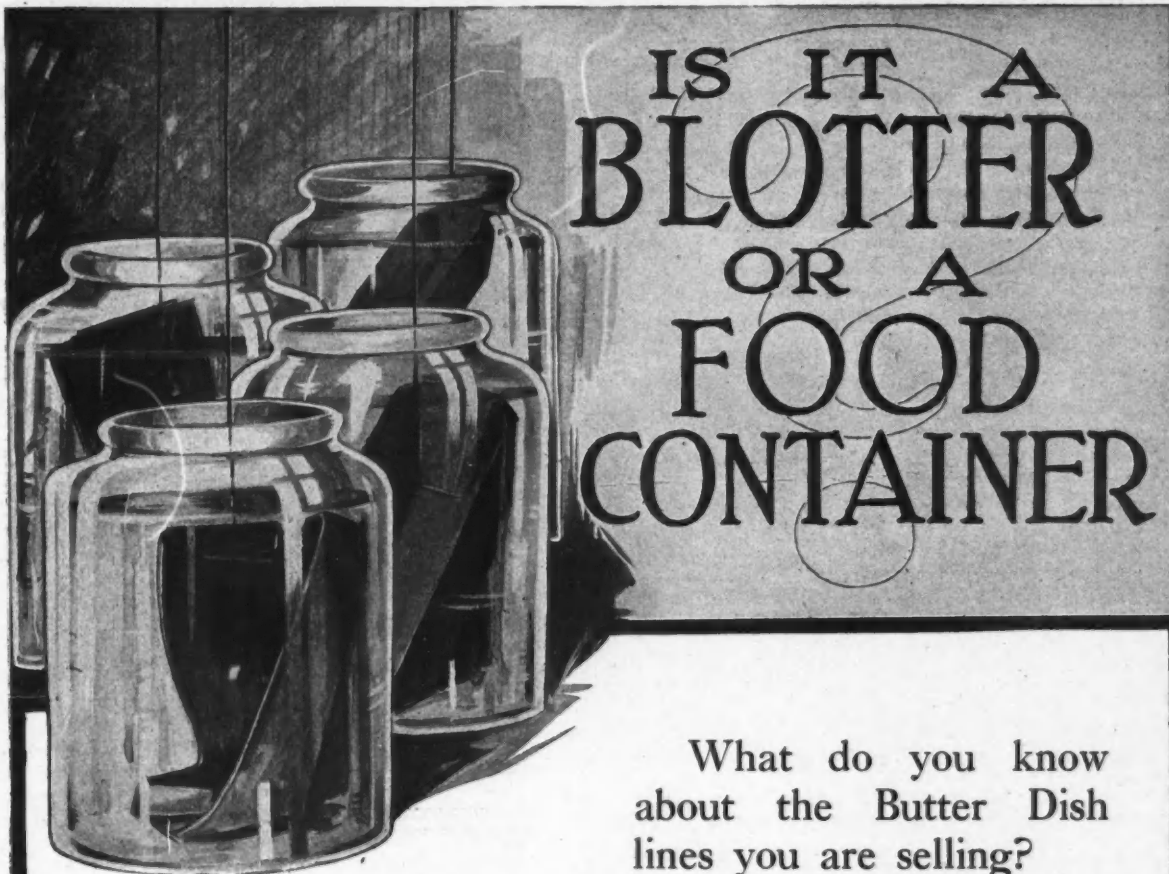
Some of the important addresses of the sessions were: "Industries," by Walter C. Hughes, secretary of the National Confectioners' Association; "New Ways of Figuring Profits," by R. H. Ritchie, president of the C. C. Ritchie & Co.; "The Hour Rate Method of Arriving at Costs" (illustrated with graphic charts), by F. S. Records, secretary of the National Association; "The Paper Box Industry in New York," by F. I. Libbey, of Schenk & Schlichte, Inc., New York City; "Applied Efficiency in Production," by W. C. Carlson, president of the Milwaukee Paper Box Company, and "The Labor Problem," by Major William C. Roberts, of the St. Louis Employers' Association.

Much time was given by the delegates to the labor problem.

NEWS PRINT PRODUCTION  
U. S. AND CANADA



Courtesy of News Print Service Bureau



IS IT A  
BLOTTER  
OR A  
FOOD  
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Chicago, Ill.

### Upson Co. Completing Plant at Lockport

LOCKPORT, N. Y., February 9, 1920.—The foundation and walls of the machine room, finished stock warehouse, factory office and beater room of the Upson Company are practically completed and the fireproof roof is being laid.

The first floor of the engine room and boiler house is also completed and it is expected that the construction of these buildings will be finished within the next thirty days.

The mill is without question one of the most up-to-date board mills in existence. Its size and arrangement represent the ultimate in modern ideas of paper mill construction, while the buildings are so arranged that the course of manufacture is orderly and in a straight line.

Unlike many paper mills, the new plant can be called a sunlit factory (because 70 per cent of the walls are windows. The factory will thus be flooded with daylight, and the plans have been so drawn that there will not be a dark spot in all the plant.

The exterior walls are of deep red blended tapestry brick, while the walls inside are lined with white glazed brick. All the floors are of concrete on solid rock foundations. The roofs are of steel and gypsum. The buildings are practically unburnable.

Special consideration has been given to providing adequate facilities for the comfort of employees. Every department will contain lavatories, wash basins, drinking fountains and shower baths, with a large club room for smoking and eating to be used by all employees.

The mill, as planned, will insure every employee working under clean and sanitary surroundings. In this respect the new Upson plant will be entirely unlike the old fashioned dark, dirty, poorly ventilated paper mill.

The new manufacturing division will be directly connected with the present wall board plant of the Upson Company, which is known as one of the most completely equipped wall board factories in the world. When completed the entire plant will occupy some twelve acres of land, with splendid switching facilities, inasmuch as the different buildings will be served by a series of five spur tracks.

Ground will be broken just as soon as weather permits for still another addition to the present wall board factory, this projected building being 90x350 feet.

When completed, the Upson Company, it is said, will have the largest plant in the world for the manufacture of wall board and special fibre board products. Those who have seen the plant say that it is the last word in paper mill construction.

The new board manufacturing plant now in course of construction will cost about \$1,500,000. Full details regarding the equipment of this splendid new mill will be given in a future issue of the PAPER TRADE JOURNAL. The officers of the Upson Company have secured the services of Fred J. Rooney as manager of the new division. He is now busy organizing his corps of assistants and an organization to operate the new plant.

The growth of the Upson Company has been quite remarkable. Starting eight years ago, in the face of severe competition, it has shown a constant growth until at the present time it is one of the two or three largest producers of wall board in the country.

The Upson Company has consistently specialized on and concentrated its efforts in the production of quality wall board. It has never undertaken the manufacture of other products, and its officers state that they do not expect to broaden their field of production, inasmuch as the manufacture of wall board and allied products is becoming a highly specialized business of itself.

### T. E. McGillan Vice President of Lakeside Paper Co.

NEENAH, Wis., February 9, 1920.—At the recent annual meeting of the Lakeside Paper Company, T. E. McGillan, young in years, but old in the paper field, was elected a director and first vice-president.

Mr. McGillan came to the city of Menasha from Chicago, where he was engaged in the paper field just five years ago and became identified with Wisconsin capitalists in starting the Peerless Paper Products Company, manufacturing toilet paper and paper towels.

Shortly after the death of J. L. Fieweger, who was connected with the Peerless Company, Mr. McGillan purchased the Fieweger interests and in the spring of 1919 the McGillan-Amuth Paper Mills, Inc., was formed and a tissue mill erected whose entire production is converted by the Peerless Paper Products Company. The offices of secretary and treasurer in both of these companies are held by Mr. McGillan, and it has been due to his untiring efforts that has placed both of these mills into the foremost class of toilet paper manufacturers in the country.

The citizens of Menasha at the last spring election, despite the fact that he was not an old resident of the city, elected Mr. McGillan to the office of mayor and the many improvements inaugurated under his administration have done wonders for this flourishing city of paper and pails.

Mr. McGillan is also vice-president of the Uncle Sam Tractor Company, a thriving concern of Menasha, Wis.

The Lakeside Paper Company is to be congratulated in having a man of Mr. McGillan's recognized ability connected with it.

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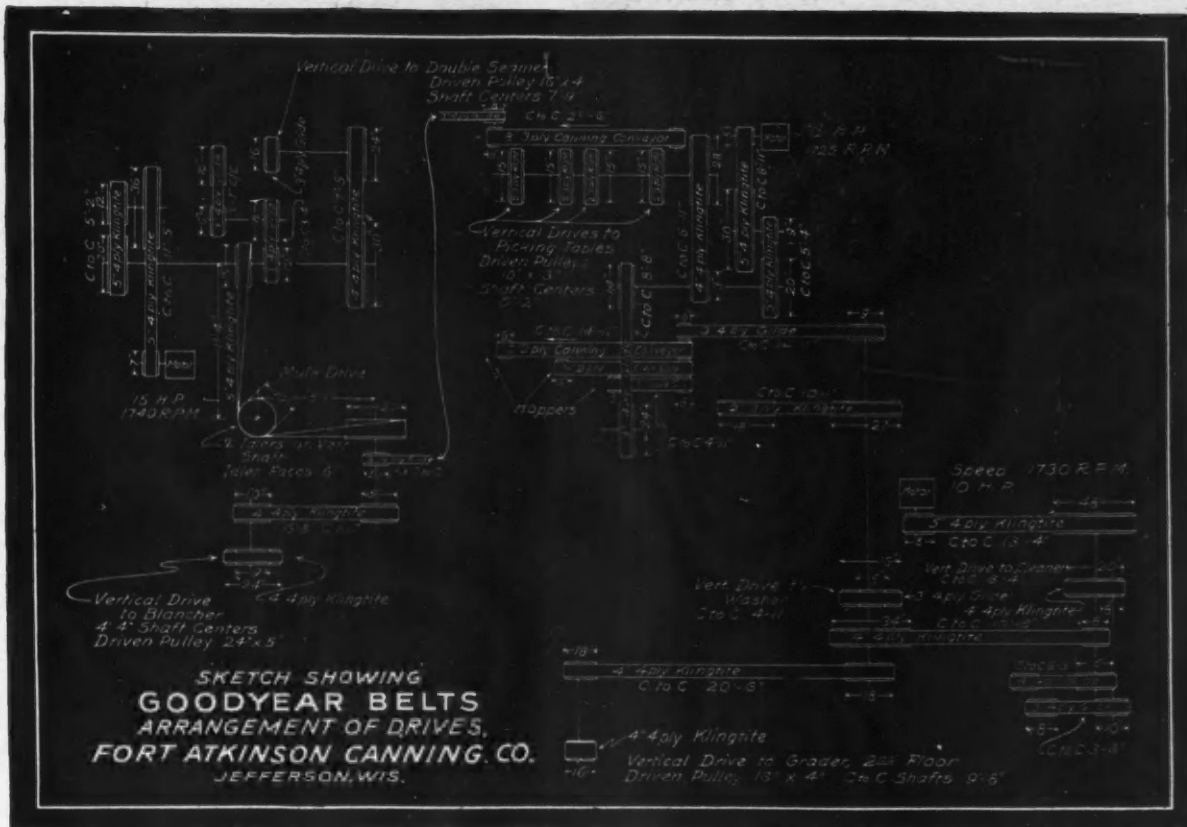
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**And the plant analysis idea** proposed by the G. T. M.—Goodyear Technical Man—struck them as the logical way to insure the right belt for every duty. They had opportunity to test the principle of it thoroughly in a study of their new plant's belting requirements. They had the G. T. M. make the study.

**So they specified 100% Goodyear equipment**—transmission belts, conveyor belts, steam hose, water hose—for their new cannery at Jefferson, Wis., all on the basis of the G. T. M.'s plant analysis and their confidence in Goodyear products.

**The Jefferson plant is an efficient linking** of different transmissions and conveyors. No one type of belt, however well adapted to one form of duty, could be depended on to fulfill with equal capacity all these varied demands.

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**Both Goodyear analysis and Goodyear Belts** are at your service. The G. T. M.'s expert study of either a single drive or a complete plant installation is without obligation on your part. For further information about the Goodyear plan of plant analysis and the G. T. M., write to the Mechanical Goods Dept. of The Goodyear Tire & Rubber Co., Akron, Ohio.

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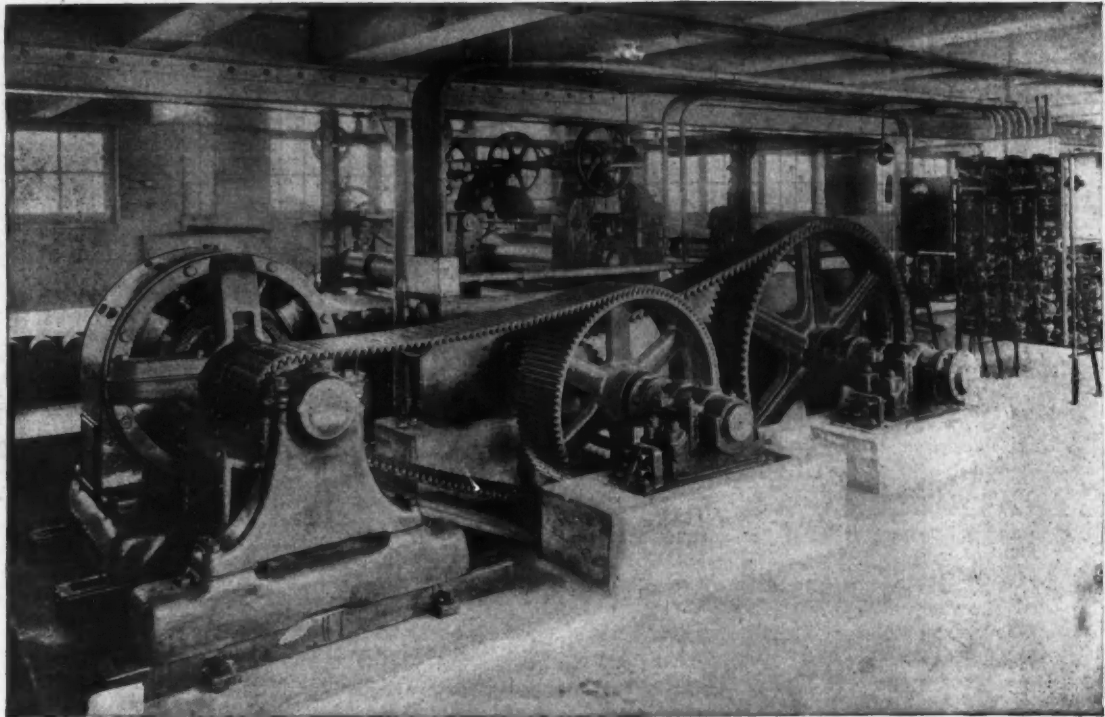
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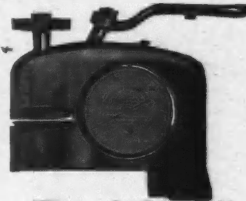
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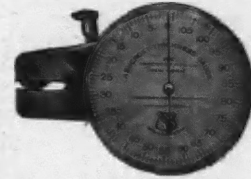
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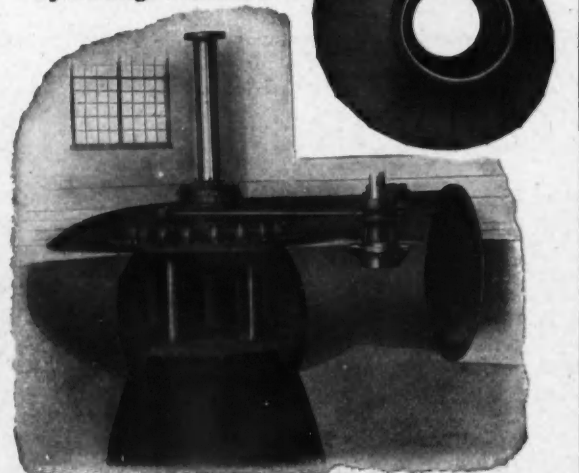
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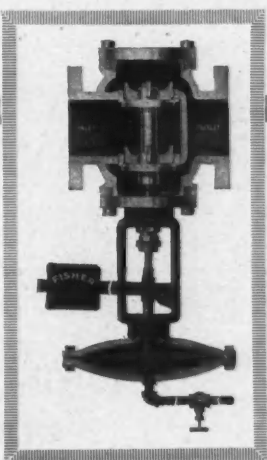
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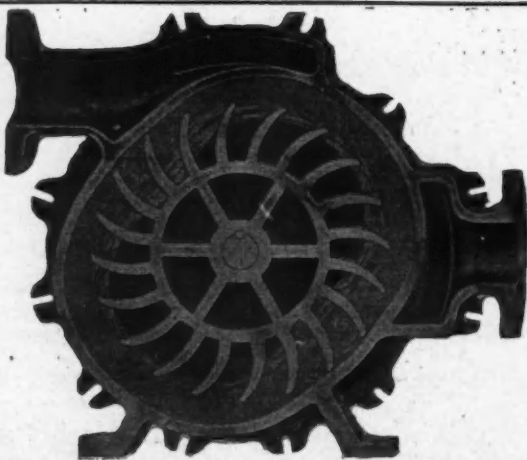
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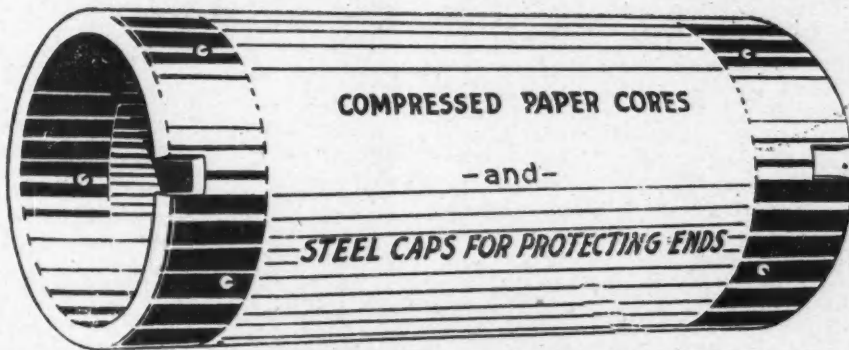
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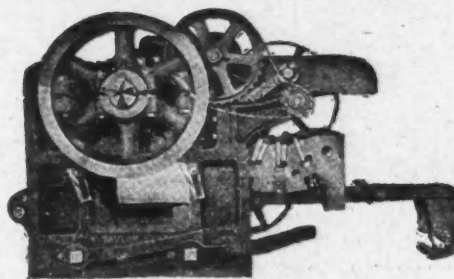
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## New York Market Review

Office of the PAPER TRADE JOURNAL,  
WEDNESDAY, FEBRUARY 10, 1920.

The uncomfortable state of the paper and pulp market continues to exist throughout the country this week. Blizzards in the north and heavy rains in the south combined to make transportation of all kinds practically impossible. With the passing of the Government railroad control, it is optimistically expected that the awakened competition between the railroad companies, will produce a more efficient service. The heavy premium on the dollar exchange is thought likely to have the effect of turning the European demand to the medium and cheaper grades of paper and supplies. The paper market was higher last week with a few exceptions, but in these times of soaring prices, such an increase is not so seriously regarded as in normal times, so long as the buyer has the money.

News print can no longer be bought. Here and there are small lots for which prices up to 10.50 cents a pound have been offered. Contracted material is being held up at the mills in a great many instances, because of the shortage of freight cars.

The book paper market is in the same chaotic condition. Pulp and waste material for the manufacture of this commodity is scarce, which lends to the practical unavailability of this higher grade. Book paper mills report that they are out of the market with their output sold far in advance. A speculation has been ventured that the shortage in this field was due somewhat to the national political campaigns now being lunched. Speeches, candidate and party exploitation when carried on nation-wide, do much to increase the demand for the higher grade papers.

Demand is brisk in the tissue market and prices are reported as holding the same levels as last week, with some higher offers in various grades. Jobbers in tissue are barely meeting the demands. Consumers are taking what they can get, and, as reported, are open to suggestions by the dealers.

A different condition existed in the coarse paper and board market last week. Demand was reported as not quiet as strong as the preceding week, and some dealers conjectured that the box makers were standing off for lower prices. They did not venture an opinion as to whether that was just the thing for them to do however, but reported that trade to their other consumers was otherwise strong. Prices advanced in the face of the fact that box makers orders were scarce. The feature of weekly statistics was the rise in price of wood pulp boards, which in some cases topped \$100 the ton.

### Mechanical Pulp

Mechanical pulp advanced appreciably this week, or what there was available of it. Although the demand is heavy, mills could produce sufficient wood pulp to keep pace with it, were it not for the weather conditions in Canada and this country. Anchor ice was reported as hampering most of the large grinding mills, and surface ice on the rivers prevented to a large extent the floating of logs. Wood pulp is practically unavailable so that very little is being offered. A thaw within several weeks is hoped to relieve this situation to some extent.

### Chemical Pulp

Mills handling chemical pulps are running to capacity in an effort to comply with the heavy demands of the paper manufacturers. The domestic market is characterically strong. The Scandinavian countries are shipping the bulk of their supply to England where higher prices are paid. Foreign quotations are high and English consummation extremely heavy. Small quantities are available for domestic use in spot transactions and in the face of the heavy demand, no release on the tension is expected in the near future.

### Rags

The market for domestic rags is still moving upward. Mills demands are still at the peak, and this, coupled with the unfavorable weather conditions for collections makes speculation as to a saner market, impossible.

Demand for foreign rags is reported as good. Overseas supplies are for the most part pretty much depleted, due, it is thought, to the heavy foreign consumption and the domestic demands which were relieved to a large extent by the foreign rag market last year.

### Old Ropes and Bagging

Trading in the old rope and bagging is reported as having taken a slump during the past week. Bagging especially was in less demand while several grades of old rope held their own with a slight advance. Trading was reported fairly steady, and packers are for the most part, supplying the needs of the paper mills. Imported material in this field is scarce due to the foreign shipping conditions which are poor due to the unfavorable weather.

### Waste Paper

The waste paper market was under continued pressure this week due to the heavy demand of paper and boards of all grades. Trading operations in this field were of large proportions considering the poor collections and resultant scarcity. Dealers report that the demand is keeping up on all grades, and it is not expected that prices will drop until well into the summer months. Offerings are limited and mills are paying high prices for the commodity, according to their particular direness of need.

### Twine

Twines experienced a general advance over last week's quotations. Dealers report the raw material market as firm with advancing tendencies. Demand for all grades of twine is strong.

## IMPROVEMENT IN PULP-SCREENING

(Continued from page 48)

mechanism is required to set in operation a much smaller mass than where the tank is vibrated, and in the case of a deeply submerged screen, the buoyancy of the screen decreases the weight which must be lifted by the vibrating mechanism. For these and other reasons, the screen itself is preferably, though not necessarily, subjected to the vibratory movement.

While I have herein shown, for purposes of illustration, one specific embodiment of the invention, it will be understood that extensive deviations may be made therefrom, and wide variations may be made as to constructional details in form and relative arrangement of parts, without departing from the spirit thereof.

## Northern N. Y. Cost Association to Meet

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., February 9, 1920.—S. L. Bush, manager of research for the Chemical Paper Manufacturers' Company, Holyoke, Mass., will be the speaker tonight at the Black River Valley Club at the second meeting of paper manufacturers of Northern New York Branch of the Cost Section of the American Paper and Pulp Association. The topic to be considered will be "Perpetual Inventory."

J. C. McCormick, of Knowlton Brothers, the organizer of the local movement among paper manufacturers, who is acting secretary of the organization, said today that he expects there will be at least 10 concerns represented there by executives and cost accountants. It is expected that at least 25 people will be on hand.

Luncheon will be enjoyed at 6:30, following the talk by Mr. Bush. With the cigars a general discussion of detail problems will be taken up. It is possible that a permanent organization may be effected at that time.

Market Quotations

Paper Company Securities

New York Stock Exchange closing quotations, February 10, 1920.

Table of Paper Company Securities including American Writing Paper Company, International Paper Company, and Union Bag & Paper Corporation.

Because of the unusual conditions prevailing in the various markets quotations are more or less nominal.

Paper

Table of Paper products including Bonds, Ledgers, Writing, Extra Superfine, and various types of newsprint.

Table of Fancy Cottons and Foreign Rags including Blue Overall, New Blue, and various types of rags.

Foreign Rags

Table of Foreign Rags including New White Cuttings, Unbleached Cottons, and various types of rags.

Mechanical Pulp

Table of Mechanical Pulp including No. 1, f. o. b. Mill.

Chemical Pulp

Table of Chemical Pulp including Sulphite (Foreign), Bleached, and various types of pulp.

Domestic Rags

Table of Domestic Rags including Shirt Cuttings, New White, and various types of rags.

Table of Paper products including No. 1, No. 2, Tube Rope, Fine Tube Yarn, and various types of twine.

Old Waste Papers

Table of Old Waste Papers including Shavings, Flat Stock, Solid Book Ledger, and various types of waste paper.

CHICAGO

[FROM OUR REGULAR CORRESPONDENT]

Paper

Table of Paper products in Chicago including Mill Price to Jobbers, Rag Bond, Sulphite Bond, and various types of paper.

Old Papers

Table of Old Papers in Chicago including Shavings, Ledgers and Writings, and various types of old paper.

PHILADELPHIA

[FROM OUR REGULAR CORRESPONDENT.]

Paper

Table of Paper products in Philadelphia including Bonds, Ledgers, Writings, and various types of paper.

Roofing Rags

Table of Roofing Rags in Philadelphia including No. 1, No. 2, No. 3, and No. 4.

Bagging

Table of Bagging in Philadelphia including Gunny No. 1, Foreign, Domestic, and various types of bagging.

Old Papers

Table of Old Papers in Philadelphia including Shavings, No. 1, No. 2, and various types of old paper.

(Continued on page 70)

# Imports and Exports of Paper and Paper Stock

NEW YORK, BOSTON, PHILADELPHIA AND OTHER PORTS

## NEW YORK IMPORTS

WEEK ENDING FEBRUARY 10, 1920.

### SUMMARY.

Cigarette paper	133 cs.
Tissue paper	15 cs.
Filter paper	6 cs.
Wall paper	85 cs.
Hangings	46 cs.
Miscellaneous paper	25 cs.

WEEK ENDING FEB. 7th, 1920.

### CIGARETTE PAPER.

P. J. Schmeitzer, Tarantia, Genoa, 133 cs.

### TISSUE PAPER.

Wilkinson Brothers & Co., Bonic, Manchester, 15 cs.

### FILTER PAPER.

Reeve, Angel & Co., Minnekahda, London, 6 cs.

### WALL PAPER.

R. F. Downing & Co., Minnekahda, London, 43 bls.

The Prager Company, Manchuria, Antwerp, 38 cs.

A. Murphy & Co., West Nohuo, Liverpool, 4 bls.

### PAPER HANGINGS.

A. C. Dodman, West Nohus, Liverpool, 46 bls.

### PAPER.

F. C. Strype, Manchuria, Antwerp, 11 cs.

Albion Trading Company, Irishman, Liverpool, 14 cs.

### WOOD PULP.

J. F. Patton & Co., Hellig Olav, Copenhagen, 1,200 bls.

American Wood Pulp Corporation, by same, 315 bls.

M. Gottesman & Co., Helwig, Olav, 315 bls.

### CASEIN

Rosin & Co., Rembrandt, Bahia, 600 bags.

## CHINA CLAY.

Hammill & Gillespie, Wells City, Bristol, 400 casks, 200 tons.

## OLD ROPE.

International Purchasing Co., Wells City, Bristol, 786 coils.

Albion Trading Co., Minnekahda, London, 246 coils.

E. Butterworth & Co., West Nohuo, Liverpool, 176 coils.

## RAGS, BAGGING, ETC.

Guaranty Trust Co., San Giorgio, Genoa, 256 bls. baggings.

Standard Bank of South Africa, Wells City, Bristol, 285 bls. baggings.

Core & Herbert, Ansaldo S. II., Genoa, 125 bls. old pickers.

Arrowhead Mills, Minnekahda, London, 148 bls. rags.

Albion Trading Co., by same, 77 bls. rags.

Albion Trading Co., West Nohuo, Liverpool, 37 bls. rags.

E. Butterworth & Co., by same, 126 bls. rags.

E. Butterworth & Co., by same, 35 bls. bagging.

A. Bernstein, by same, 47 bls. rags.

Irving National Bank, Bonic, Manchester, 162 bls. paperstock.

Henry Yates Sons, Ltd., by same, 52 bls. bagging.

Wilkinson Bros. & Co., by same, 149 bls. bagging.

E. J. Kellar & Co., by same, 382 bls. bagging.

E. J. Kellar & Co., by same, 197 bls. paperstock.

M. O'Meara, by same, 54 bls. paperstock.

M. O'Meara, by same, 208 bls. tares.

M. O'Meara, by same, 169 bls. old twine.

E. Butterworth & Co., by same, 330 bls. rags.

E. Butterworth & Co., by same, 383 bls. bagging.

E. Butterworth & Co., by same, 411 bls. paperstock.

R. F. Downing Co., by same, 32 bls. paperstock.

R. F. Downing Co., by same, 119 bls. newcuttings.

L. H. Abenheimer, by same, 304 bls. bagging.

L. H. Abenheimer, by same, 219 bls. paperstock.

Standard Bank of South Africa, by same, 122 bls. paperstock.

Salmon Bros. & Co., by same, 14 bls. paperstock.

Irving National Bank, by same, 56 bls. paperstock.

D. M. Hicks, by same, 53 bls. paperstock.

A. Solomon, Inc., Manchuria, Antwerp, 443 bls. flaxwaste.

E. Butterworth Co., by same, 61 bls. flaxwaste.

E. Butterworth Co., by same, 218 bls. bagging.

Baring Bros. & Co., West Gumbo, Antwerp, 13 bls. rags.

Albion Trading Co., Irisaman, Liverpool, 298 bls. rags.

S. S. Silberman, Columbia, Glasgow, 124 bls. paperstock.

Equitable Trust Co., by same, 54 bls. paperstock.

E. J. Kellar & Co., by same, 33 bls. paperstock.

Guaranty Trust Co., by same, 62 bls. paperstock.

Standard Bank of South Africa, by same, 122 bls. paperstock.

L. H. Abenheimer, by same, 76 bls. baggings.

Brown Bros. & Co., by same, 187 bls. paperstock.

Castle, Gottheil & Overton, West Nohuo, Liverpool, waste flax, 40 bls.

## GLUE STOCK.

Castle, Gottheil & Overton, glue stock, 71 bls.

## BALTIMORE IMPORTS

WEEK ENDING FEBRUARY 7, 1920.

### WOOD PULP.

M. Gottesman & Co., Arkansas, 375 bls.

## PHILADELPHIA IMPORTS

WEEK ENDING FEBRUARY 7, 1920

Castle, Gottheil & Overton, Westgumbo, Antwerp, rags, 459 bls.

## ACTIVE DEMAND IN PHILADELPHIA

(Continued from page 26)

concrete factory at the southwest corner of Tenth and Pearl streets.

An overheated pullet last week caused a fire in the Philadelphia Paper Manufacturing Plant, Manyunk, but after a two-hour fight the flames were extinguished with but slight loss.

The new board mill downtown, to be known as the Phil-Fibre, is expected shortly to begin production originally scheduled for January 1. The machine is now being installed. It is proposed to make, every 24 hours, between 35 and 45 tons of chip or news or combination board.

N. J. Renner, formerly with the Friedel Paper Company, Syracuse, N. Y., now represents the Glucol Manufacturing Company, with an office in The Bourse.

The Commercial Paper Box Company has removed from 207 Chanceller street to 613 South Leithgow street.

Allegations that filthy rags spread disease have been made by Mrs. Florence Kelley, general manager of the Consumers' League. She recently investigated 59 local rag shops and characterized all as bad.

The Girard Paper Box Company has been organized and has taken quarters at Fourth and George streets.

### Unique Paper Collection

From the corners of the earth—Japan, Spain, Italy, England and this country—there has been gathered together by David Martin Patton, Commercial Trust Company building, a collection of papers unique and probably without duplicate anywhere. The papers are all hand-made and the purpose of their collection was to secure a medium most closely approximating the old-time parchment for the purpose of a reproduction of a 16th century hand-

printed prayer book. Mr. Patton, for many years with the Jessup & Moore Company, is a paper specialist, and appeal was made to him by a publisher who had this particular need to fill. The English product apparently comes closer to parchment than any of its competitors. Announcement of selection has not, however, been made.

### Stock Dealers' Banquet Uncertain

Though the time when the annual banquet of the Philadelphia Stock Dealers' Association ordinarily is held, is approaching no date for the forthcoming celebration has thus far been set. For years arrangements were in charge of Thomas Simmons of John Simmons' Sons; but at his request there was appointed this year a new committee headed by Simon Weil, of Morris Weil & Son. This was due to the fact that some criticism of the character of the vaudeville entertainment at the celebration a year ago, was made. At the office of Mr. Weil, it was said that he had been much pressed by business and that he had asked to be relieved of the banquet chairmanship.

### Personal Items


D. Fred Souders, president of the States-Paper Company, and John C. Burke, secretary and treasurer, who both have business interests in Baltimore, were visitors during the week to the main office of the company at 720 Arch street.

F. H. Preble, of the Hart Trading Company, mill agents for the Hartje Paper Company and the Westfield River Paper Company, was a trade visitor during the week.

Representative Oliver, of R. G. Benedict, New York, selling agent for the Lee Paper Company, Vicksburg, Mich., ran over to the city during the week.

President George W. Ward, of the D. L. Ward Company, leaves the city February 10 for a three-weeks' trip to Florida and Havana.

*The Home of Quality*



FACTORY  
132<sup>ND</sup> TO 133<sup>RD</sup> ST & BROOK AVE

# PAPER BAGS

Sacks and Specialties

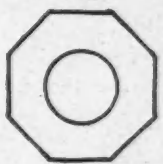
ESTABLISHED 1901

## SCHORSCH & CO.


Manufacturers

500 East 133d Street : New York

This Registered Trade Mark Octagon



on a Paper Bag vouches for its Good Quality




EVERYTHING IN

# PULP & PAPER

**J. F. PATTON CO., INC.**  
33 West 42<sup>nd</sup> St.  
New York City

(Cable address - Pulp, N.Y.)



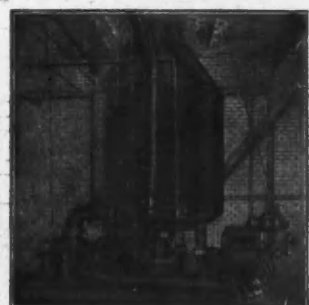
## ACCURATE KNIFE GRINDING FULL AUTOMATIC MACHINES



Improved Constructions in Straight and Cup Wheel Grinders. Many types and sizes for all requirements.

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BIG RAPIDS, MICHIGAN, U. S. A.  
Western Branch, 209 First Ave., So. Seattle, Wash.  
*Specialist in Saw and Knife Fitting Machinery*



# WINESTOCK

DE-FIBERING AND DE-INKING PROCESS

PATENTED

*Produces Strongest, Brightest and Best Pulp Obtainable from Waste Papers. Not a Mere Say-So, but a Fact.*

**CAPACITY—12 TO 15 TONS IN 24 HOURS**

It de-fibers and liberates ink and color in one operation. It separates ink and color from fibers, instead of rubbing, grinding or kneading them in—thus shortening the time required for washing, and insuring a brighter pulp.

**CASTLE, GOTTHEIL & OVERTON**  
200 Fifth Ave. Building  
SOLE SELLING AGENTS IN THE UNITED STATES  
New York, N. Y.

E. D. Jones & Sons Co., Pittsfield, Mass., Builders in the United States.  
Waterous Engine Works, Co., Ltd., Builders and Selling Agents for Canada, Brantford, Canada.

This shows latest model—driven by a steam turbine—the exhaust being used to heat water for next charge.

## Miscellaneous Markets

Office of the PAPER TRADE JOURNAL,  
WEDNESDAY, February 11, 1920.

**ALUM.**—Trade in the alum market has not increased over last week, and there has been no change in price. Dealers report the usual steady call. Ammonia alum prices are 4.4@4.25 the pound for lump, f. o. b. works.

**BLANC FIXE.**—Brisk trading continues in the blanc fixe market this week. Export business is poor, due to the value of the dollar. Nevertheless, in the face of the exchange situation, small orders are sifting in. Prices quoted for carload lots are \$70 the ton for contract, and \$75 for spot, f. o. b. works, with a slight advance for smaller quantities.

**BLEACHING POWDER.**—A brisk market prevails for bleaching powder, with a heavy demand from both domestic and export channels. Dealers are far oversold, with no diversion promised for the near future. For domestic use the prevailing prices are 3c. the pound for contract and 3.25c. for spot business. For export purposes the figure is 4c. on all trade, spot.

**BRIMSTONE.**—There has been little change in conditions in this market during the past week. Trading continues fairly active, with no perceptible change in price. Better exporting might be looked for, if there were more available tonnage. Due to weather conditions throughout the country, contracts are being made with the proviso of being subject to car supply. Prices in this commodity range from \$18@20 the long ton.

**CASEIN.**—Casein was reported as firm during the past week, with a healthy demand and tendencies toward a rise in price. Casein is bringing 15@15.50 the pound.

**CAUSTIC SODA.**—The market is reported as very active, with the heavy demand for caustic soda preventing dealers in this line from taking further orders. Domestic caustic soda is bringing 4.4@4.25, f. o. b. works, for 76 per cent. basis solid grade; and for 60 per cent. basis, 3.3@3.35, f. o. b. works. The price for exporting averages 4.25, f. a. s. New York.

**CHINA CLAY.**—The same high level as last week was maintained throughout the last seven days, due to the extreme scarcity of clay, which is directly attributable to weather conditions. Imports were, as for some time past, on the wane, and English freight rates advanced 20 shillings a ton. Many dealers in clay report that because of the heavy trade and extremely active market, they are all but buried under with orders. Washed clay was selling at \$11 the short ton, and crude at \$7.50@8, f. o. b. mines. Imported china clay sold early this week at \$17.50@25, in bulk, for the long ton, ex-ship.

**ROSIN.**—There was a noticeable lull in demand for rosin this week. Exportations have, according to several large dealers, settled down for a while, due, they think, to the foreign exchange situation. The car shortage hardly affects the transportation of rosin, due to the fact that the material is mostly shipped by coastwise ships from the South. The quoted prices are: Grade E, at \$19.20; grade F, at \$19.30; grade G, at \$19.40, for 280 pounds gross, f. o. b. Savannah, Ga.

**SODA ASH.**—A strong market was reported for soda ash during the past week. This commodity, along with the others, suffers from the marked scarcity of tonnage. Dealers are getting as high as \$1.75 for soda ash, 48 per cent. basis, in bags, and \$1.85, in barrels, f. o. b. works. Prices for export purposes were quoted at \$2.15, in double bags, f. a. s. New York.

**STARCH.**—Starch has been selling at strong, steady prices for some time now and trade promises to maintain its strength. Demand is reported very good and shipments normal. Prices quoted by manufacturers, freight prepaid to New York, in carload lots, per 100 pounds, are: Pearl starch, in bags, \$4.97; in barrels, \$5.17. Powdered starch, in bags, \$5.16; in barrels, \$5.38. Finishing starch, in bags, \$5.97. Crystal T. B. starch, No. 90 fluidity (hand packed), in bags, \$6.07; in barrels, \$6.43. Crystal

T. B. starch, No. 90 fluidity (machine packed), in bags, \$6.02; in barrels, \$6.28.

**TALC.**—The talc market remains unchanged this week. The strong demand continues, and prices are practically unchanged. Producers in this field also complain as hard hit by the poor freight facilities and the resulting delay in shipments. Talc is being sold at 16@18 the ton, contract, and 20@25, for spot business, f. o. b. the mill.

## Market Quotations

(Continued from page 67)

No. 1 Books, heavy	2.60	@	2.75	No. 1	9 1/2	@	10
No. 2 Books, light	2.00	@	2.25	No. 2	5.75	@	6.00
No. 1 New Manila	3.00	@	3.25	<b>Blues—</b>			
No. 1 Old Manila	2.00	@	2.10	Thirds and Blues	4.50	@	4.75
Container Manila	1.50	@	1.60	Black Cotton Stock-			
Old Kraft	3.00	@	3.25	ings	3.50	@	4.00
Overissue News	1.75	@	1.80	Mixed gauzes	3.15	@	3.65
Old Newspaper	1.40	@	1.50	Lace Curtains	6.50	@	7.00
No. 1 Mixed Paper	1.20	@	1.25	Colored Wiping			
Common Paper	.80	@	.85	Rags	8.00	@	8.50
Straw Board Chip	1.00	@	1.10	Cotton Quilts	3.25	@	3.50
Binders' Bd. Chip	1.00	@	1.10	White Cotton Bat-			
				ting	5.50	@	6.00

### Rags

Old White ..... 8.50 @ 8.75

### BOSTON

[FROM OUR REGULAR CORRESPONDENT]

Paper	Old Papers
Bonds	Shavings—
Ledgers	No. 1, Hard White
Writings—	No. 1 Soft White
Superfine	No. 1 Mixed
Fine	Ledger and Writ-
Books S. & S. C.	ings
Book, M. F.	Solid Books
Book, Coated	Blanks
Label	No. 2 Books, light
News Sheets	Ex. No. 1 Manila
News, Rolls	No. 1 Manila
Manilas—	Folded News (over-
No. 1 Manila	issues)
No. 1 Fibre	Old Newspapers
No. 1 Jute	Mixed Paper
Kraft Wrapping	Gunny Bagging
Common Bogus	Manila Rope
These prices are f. o. b. mill.	
Chip Board (ton)	60.00 @ 65.00
Straw Board (ton)	60.00 @ 70.00
News Board (ton)	65.00 @ 75.00
Wood Pulp Board	75.00 @ 87.50

### TORONTO

[FROM OUR REGULAR CORRESPONDENT.]

Paper	Old Waste Papers
(Mill Prices to Jobbers)	(In carload lots, f. o. b. Toronto)
Bond—	Shavings—
Sulphite	White Env. Cut
Light tinted	Soft White Book
Dark tinted	Shavings
Ledgers	White Bl'k News
Writing	Book and Ledger—
News, f. o. b. Mills—	Flat Magazine and
Rolls (carloads)	Book Stock (old)
Sheets (carload)	Light and Crum-
Sheets (l. c. l.)	pled Book Stock
Book—	Ledgers and Writ-
No. 1 M. F. (car-	ings
loads)	Solid Ledgers
No. 2 M. F. (car-	Manilas—
loads)	New Manila Cut
No. 3 M. F. (car-	Printed Manilas
loads)	Kraft
No. 1 S. C. (car-	News and Scrap—
loads)	Strictly Overissue
No. 2 S. C. (car-	Folded News
loads)	No. 1 Mixed Pa-
No. 1 Coated and	pers
litho.	Domestic Rags—
No. 2 Coated and	Price to mills, f. o. b. Toronto.
litho.	
No. 3 Coated and	
litho.	
Coated and litho.,	
colored	
Wrapping—	
Grey	
"B" Manila	
No. 1 Manila	
Fibre	
Kraft, M. F. or	
M. G.	
<b>Pulp</b>	
(F. o. b. Mill)	
Ground Wood	\$55.00 @ \$60.00



# The Mathieson Alkali Works, Inc.

WORKS AT

SALTVILLE, VIRGINIA, and at  
NIAGARA FALLS, NEW YORK

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## “Eagle-Thistle” Brand BLEACHING POWDER

HIGH TEST

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

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## LIQUID CHLORINE

Pure, anhydrous, in improved and convenient packages.

### Soda Ash

48 per cent. and 58 per cent.

### 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

### Bicarbonate of Soda

Packed in Kegs, Barrels or Bags; also Cases

## Arnold Hoffman & Company, Inc.

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PROVIDENCE: 55 Canal Street    NEW YORK: 61 Broadway    BOSTON: 88 Broad Street  
PHILADELPHIA: Delaware Ave. and Green St.    CHARLOTTE, N. C.

# WANT AND FOR SALE ADVERTISEMENTS

## HELP WANTED

### CLASSIFIED RATES

Minimum rate for advertisements of 25 words or less, first insertion \$1.00.

Situations Wanted, 4 cents a word for first insertion and 2 cents a word for each subsequent insertion of same ad. No ad of less than 25 words accepted.

Help and Miscellaneous Wants, and small For Sale Ads, 4 cents a word for each and every insertion. No ad of less than 25 words accepted.

Answers can be forwarded care Paper Trade Journal, and will be promptly forwarded without extra charge. All should be sent to the New York office, 10 East 39th street. And all should be addressed as the advertisement directs in every case and not simply to the paper.

**WANTED—Experienced Mill Manager, one familiar with Fourdrinier and Cylinder specialties, also with ability to handle general sales. Address, Box 1577, care Paper Trade Journal. F-11**

**WANTED—Superintendent to take charge of toilet paper converting plant in middle west. Now running 600 cases per day. None but experienced need apply. Applications treated confidentially. Address, Box 1810, care Paper Trade Journal. F-11**

**WANTED—Backtender for fast Fourdrinier machine. Transportation furnished. Wire application. Address, Yellow Pine Paper Mill Company, Orange, Texas. F-12**

**WANTED—Superintendent for mill making test board. Experience in handling organization and ability to get production necessary. Salary liberal. Climate and living conditions good. Address, Box 1933, care Paper Trade Journal. F-19**

**OPENING FOR A GOOD MACHINE TENDER, backtender and beater engineer; mill making Bonds and Writings. Eight hours; location, good city and very desirable. Address, Box 1924, care Paper Trade Journal. F-12**

**WANTED—First class Machine Tender on Bonds and Ledgers. Left dried papers. Send references. Address, Box 1936, care Paper Trade Journal. F-19**

**WANTED—One Fourdrinier machine tender for Rope and Jute Specialties. Eight hour tour. Steady work and good wages. Address, Box 1936, care Paper Trade Journal. F-11**

**WANTED—A first class millwright for board mill in middle west. Good wages and good working conditions. State age and experience in first letter. Address, Box 18, 1957, care Paper Trade Journal. F-12**

**WANTED—A good up-to-date man as Master Mechanic for a paper mill in New York State. Must be familiar with paper mill repairs and capable of taking full charge of repair crew. Give experience, where last employed and wages expected. All correspondence confidential. Address, Box 1906, care Paper Trade Journal. F-12**

**WANTED—Experienced men of good habits in plant producing High Grade Flint and Friction Glazed Papers. Working conditions first class. Replies treated confidentially. Address, Box 1955, care Paper Trade Journal. F-19**

**WANTED—Superintendent for one machine Tissue Mill, 10 and crepe tissue. Good opportunity for right man. Address, Box 1957, care Paper Trade Journal. F-12**

**WANTED—Millwrights for two machine paper mill. Good wages; state experience in first letter. Address, Box 1966, care Paper Trade Journal. F-26**

## HELP WANTED

**WANTED—Superintendent for one machine tissue mill situated in New England, making crepe. Must be familiar with steam and electricity. State wages desired and send copies of recommendations with first letter. Address, Box 1967, care Paper Trade Journal. F-19**

**WANTED—Boss Finisher—one cutterman and one bundler for mill making tissue and light weight specialties. Men must be familiar with Dillon Cutter and Brannan Folder. Good wages and steady work. Nine hour day. References required. Address, Box 1968, care Paper Trade Journal. M-3**

**WANTED AT ONCE—First class Draftsman with experience in Paper mill construction. State experience, age and salary. Address, Box 1969, care Paper Trade Journal. F-26**

**WANTED—Millwright to set up machinery in a new mill. Work to last three or four months. Equipment consists of one five cylinder Board Machine, with Beaters, Jordans and so forth to correspond, and one ninety-two inch fourdrinier. Reply, giving experience, wages expected and what notice would be required before reporting for work. Address, Box 1970, care Paper Trade Journal. F-26**

**WANTED—First class machine tender and back tender on Harper Fourdrinier making tissue. Apply at once to Box 1971, care Paper Trade Journal. F-26**

**WANTED—First class Sulphite cook and competent wet room foreman for sulphite mill in New York State. Reply with full particulars as to experience, etc., to Box 1972, care Paper Trade Journal. F-19**

**WANTED—Assistant Superintendent for container board mill. Good prospects for advancement to right party. Give age, and references. Address, Box 1973, care Paper Trade Journal. F-26**

**WANTED—First class machine tender in Chip and News Board Mill located in Middle West, running eight hour shifts. Address, Box 1974, care Paper Trade Journal. F-12**

## FOR SALE

One 4 $\frac{1}{2}$ " Perforator Head  
 One—5" " "  
 One—5 $\frac{1}{2}$ " " "  
 to fit a 90" Toilet Paper Perforator.  
 Two—54" Dietz Slitters and Rewind-  
 ers.  
 One—16 x 20" two color Harris Press.  
 One—72" Hudson-Sharp Collapsible  
 Reel.

For Details Write Purchasing Department,

**CONTINENTAL PAPER BAG CO.**  
 17 Battery Place, New York City

F-12

## WE NEED A MANAGER

for a 50-ton Pulp and Paper Mill, making high grade magazine paper from wood. Contemplate using part rag furnish. Large extensions of present equipment are needed, and we want a man capable of assuming entire charge of purchasing of new equipment, constructing mill addition, and to efficiently manage the plant when mill is remodeled. The entire management will be placed in his hands, and he can name his own salary. Write to us at once, and your communication will be held confidential. We want a practical, thorough paper maker, who is a good, square manager, and who can deliver the goods. Address, your communication to W. N. Daniels, Box 1052, Richmond, Virginia. F-12

## HELP WANTED

**WANTED—Engineering Draftsmen. Experienced in Paper, Pulp and Sulphite plant equipment layouts and general building design. State age, salary expected, and give experience in first letter. Location, middle west. Address, Box 1975, care Paper Trade Journal. M-3**

**WANTED—Machine Tender on small cylinder machine in new mill. No labor trouble. State wages, etc. Universal Pulp and Paper Co., St. Joseph, Michigan. F-12**

**WANTED—Machine Tender on Book and Writing. Two tours. Steady work. Good pay. Address, Box 1985, care Paper Trade Journal. F-19**

**WANTED—Wet Room Foreman for Mill in southwest, who is familiar with operation and upkeep of Rogers Wet Machine. State experience and salary wanted in letter. Address, Box 1986, care Paper Trade Journal. F-19**

**WANTED in three shift mill making ten pound tissue Two Cylinder Machine Tenders for an 84 inch machine. Mill situated in an eastern city. Give reference and wage rate. Address, Box 1987, care Paper Trade Journal. F-26**

## MEN WANTED

A complete organization is wanted to man a new, modern board mill—machine-tenders; back-tenders; beater-men; mechanics; engineers; electricians; firemen; etc. The mill is of the latest construction—not a dark spot anywhere—sanitary—with latest type closets, wash stands, lockers and shower baths for all departments. Modernly equipped in every way to provide for comfort and safeguarding of workers' health. The management is broad-minded and employees will be expected to work with rather than for the management. Only steady, competent men who appreciate clean surroundings and good working conditions need apply. Plant located in Western New York. Address applications, with references, to Box 1985, care Paper Trade Journal. F-19

## SITUATIONS WANTED

**PAPER SALESMAN, NEW YORK CITY,** can produce large volume of business. Wishes connection with Mill Agency Company or Mill. Substantial drawing account on commission basis. Address, Box 1916, care Paper Trade Journal. F-12

**WANTED BY AN EXPERT PAPER MAKER—Position as Mill Manager, competent to take full charge of Manufacturing. Prefer a Mill suitable for making Container, Kraft, White Waxing or Grease-proof Paper and Specialties. Will take part of salary from mill increased earnings or savings. Address, Box 1920, care Paper Trade Journal. F-19**

**MACHINE TENDER DESIRES POSITION.** Experienced on all grades of Boards and can get results and keep up machine. Married, steady and reliable. Address, Box 1924, care Paper Trade Journal. F-19

**MACHINE TENDER desires position.** Experienced on all grades of boards. Can get results and keep up machines. Steady and reliable. Address, Box 1923, care Paper Trade Journal. Feb.

**SUPERINTENDENT wants position.** Has long time experience on all grades of tissue, roofing and building papers, wrappers, news or manila. Best of references. Address, Box 1947, care Paper Trade Journal. F-12

**SITUATIONS WANTED**

**SUPERINTENDENT** or Assistant on Board desires to make a change. A-1 on high grade boards such as Ice Cream and Milk Caps. Best of references. Address, Box 1949, care Paper Trade Journal. F-12

**SUPERINTENDENT**, at present running mill on colored specialties, would like to change to a larger mill as manager or superintendent. Address, Box 1945, care Paper Trade Journal. F-12

**PAPER MILL ENGINEER** and Draftsman with long experience in Canada and United States, has successfully held position as Chief Draftsman and Engineer in charge in mills making ground wood, sulphite and news. Desires change. Good references. Address, Box 1939, care Paper Trade Journal. M-3

**POSITION WANTED** as General Manager. Assistant General Manager or similar executive position. Thoroughly experienced in both manufacturing and the office including selling. Wood Papers, Sulphite Bonds and Specialties. Can furnish the best of references. Address, Box 1940, care Paper Trade Journal. F-12

**EXECUTIVE**—Practical man general superintendent large plants last ten years. Wide experience—desires to connect with progressive company. Address, Box 1941, care Paper Trade Journal. F-26

**SUPERINTENDENT**—Exceptionally capable man, now employed, but will consider change that has opportunities for advancement. Have had twenty-five years' experience in the manufacture of high grade Straw, Chip and other grades of box boards; thoroughly up-to-date operator, very successful in handling help, maintenance of plant, and quality of output. Address, Box 1960, care Paper Trade Journal. F-26

**FOR SALE**

**BEATERS**—One 51"x45", five Jones, one Downingtown, two Horne, one 60"x60", several 72"x44", two Claflin Refining Engines  
**BED PLATES**—Circled to diameter of roll.  
**CALENDERS**—One 7 roll stack 72" face, two 3 roll stacks 72" face, one 9 roll 63" face, one 9 roll 84" face.  
**COATERS**—Two 56" Waldron coaters.  
**CUTTERS**—Two 45" Finlay cutters newly rebuilt with brand new Hamblet expansion pulley drive, 36" Sanborn cutter, 38" guillotine cutter.  
**CYLINDER MOULDS**—One 30"x54", one 30"x64", both rebuilt, ready for quick shipment. One new 30"x32".  
**DRIVES**—One Reeves No. 4, Class E, one Reeves No. 9, Class E, one Moore & White No. 10.  
**DRYERS**—4 36"x54", 8 36"x63", 7 48"x 108", 2 36"x66", 1 36"x78", 1 24"x128", also twenty brand new shells 48"x96", and ten new shells 48"x102".  
**EVENERS**—Two Mellor eveners.  
**JORDANS**—1 Mammoth Jr., several Emerson and Horne type Jordans.  
**MACHINES**—One 2 cylinder machine for 56" trim, 23" dryers. One 72" Harper four-drummer.  
**PULLEYS**—One 97" dia., 34" face, double arm, modern pulley. One set cone pulleys, 40"x31"x83" face. One set cone pulleys, 40"x31"x78" face. Also large stock of iron pulleys including some cone pulleys for Marshall drives. New wood pulleys with friction clutches.  
**PUMPS**—One dry suction pump, single vacuum, 12x22x18 Knowles, one 1,000 gallon Blake tank pump, several 7" and 8" Lawrence Machine Company, Class A, high duty pumps; fan pumps, new stock pumps, single and double.  
**PRESS ROLLS**—Large number of different sizes on hand. Some suitable for rubber covering.  
**ROTARIES**—One 14" Globe, one 84"x22" horizontal in good condition, ready for immediate shipment.

**MILLS MACHINE COMPANY  
 LAWRENCE, MASS.**

**SITUATIONS WANTED**

**YOUNG MAN**—at present manager of mill making Book and Writings, desires position with good paper concern where his executive ability and experience may be of value. Address, Box 1959, care Paper Trade Journal. F-19

**SUPERINTENDENT** open for position. Several years' experience on Container and Combination Boards. Can get production and am well up on repairs. Will furnish best of references. Address, Box 1961, care Paper Trade Journal. F-12

**WANTED**—Position by a man with extensive experience in the manufacture and distribution of Waxed Papers of every description. Able to design waxing machines and erect complete up-to-the-minute plants. Address, Box 1964, care Paper Trade Journal. F-26

**WANTED**—A position as Paper Finisher. Seven years' experience. Address, Box 1976, care Paper Trade Journal. F-12

**PULP SALESMAN**, thoroughly familiar with all foreign and domestic pulps well known throughout the trade, desires to connect with an importing firm who need a manager or high class salesman. Address, Box 1977, care Paper Trade Journal. F-12

**POSITION WANTED**—As Master Mechanic and Chief Engineer in charge of steam and electrical and mechanical equipment. No job too big. I am thoroughly acquainted with paper mill work and can bring plant up to the highest efficiency, and produce the largest amount of finished product per unit. Address, Box 1978, care Paper Trade Journal. F-26

**CORRESPONDENCE DESIRED** with manufacturer who at times needs representation in New York. Have extensive commercial and practical training. Address, Box 1979, care Paper Trade Journal. F-26

**OPEN TO ENGAGEMENT** in the spring. Paper Mill Engineer. Sixteen years' experience in design construction and maintenance. Expert on Paper, Pulp and Power Plants. Correspondence solicited. Address, Box 1980, care Paper Trade Journal. M-10

**FOUR PRACTICAL PAPERMAKERS**, all heads of departments including Superintendent, wish to get in touch with someone who will finance them in acquiring and operating A-No. 1 Tissue Mill. Have property in view. Best of references as to character and ability. For further information address Box 1983, care Paper Trade Journal. F-26

**PAPER BAG MAN** desires position as foreman. Experience covers mostly all types of machines. Reliable. Can furnish best of references. Address, Box 1989, care Paper Trade Journal. F-26

**SUPERINTENDENT** wants position. Have been running mills for eighteen years on Test, Chip and other Boards, also on Kraft, Wrappings and specialties. Know how to get production. Good on repairs. Can manage help. Address, Box 1990, care Paper Trade Journal. F-26

**FOR SALE**—Progress Die Stamping Press in absolute perfect condition. 102 dies. Cost \$156.00. Will sell for \$75.00. The Landgraf Co., Asbury Park, N. J. F-26

**WANTED**

Straight Fourdrinier Paper Machine, 80" wide, or more, with about a 45' wire. Give full particulars and state how long in use. Address, Box 1942, care Paper Trade Journal. T. F.

**FOR SALE**

**EXCELLENT OPPORTUNITY FOR A PAPER MILL**

The undersigned company makes continuously 130 cords of wood waste per day from Spruce, Hemlock and Fir. The greater part of this material is suitable for chemical pulp production. Free water, cheap sawdust fuel and very reasonable electric power rates available. Excellent shipping facilities to all parts of the world. Write for further information to

**WESTERN COOPERAGE CO.,  
 Portland, Oregon.** tf

**FOR SALE**

One Mills Universal Beating Engine. Never been used. Attractive Price for Quick Sale. Address,

**MT. HOLLY PAPER MILLS, INC.,  
 Mt. Holly Springs, Pa.** tf

**FOR SALE**

**BOARD MACHINES**—Six cylinder 36" x 60", five baby presses, three presses, 61 dryers, 3 stack calenders, duplex cutter, and Marshall drive.

**FOURDRINIER PARTS**—One 120" Black & Clawson, Kutter Trowbridge pattern. One 72" with Pusey & Jones U Brake.

**DRYERS**—Three 48" x 148"; four 48" x 111"; two 48" x 40"; two 38" x 82"; fourteen 38" x 54"; three 38" x 48".

**MACHINE CALENDERS**—One 84" size roll; one 82" size roll; one 72" size roll; one 68" size roll; one 48" size roll; one 37" size roll.

**SUPER CALENDERS**—One 62" Norwood; one 58" Holyoke; one 45" Norwood; one 43" Holyoke; two 42" Holyoke.

**SLITTERS AND WINDERS**—One 127" Kidder; one 102" Langston; one 90" Kidder Toilet Slicer; one 82" Cameron; one 80" Kidder; one 64" Diets Toilet Perforator and Slicer; one 38" Kidder.

**PAPER SHEET CUTTERS**—One 106" Horne; one 112" Finlay; one 84" Beloit Duplex; one 72" Clark; one 62" Horne; one 53" Finlay; one 48" Finlay; four 42" Finlay.

**REAM CUTTERS**—One 55" 20th Century Saybold; one 55" Cranston undercut; one 60" Sheridan; one 50" Dayton Saybold; one 46" Sheridan; one 36" Sheridan.

**BEATERS**—Two 52" x 52" Horne; one 55" x 52" Emerson; one 48" x 48" Horne; two 45" x 54" Horne; one 45" x 48" Downingtown; one 48" x 60" Umpherston; three 40" x 40".

**JORDANS**—One Noble & Wood, with base; one Emerson, with base; one Horne; two 48" Smith & Winchester, without base; one Dillon No. 1.

**PUMPS**—One Deane Triplex Water Pump, 10" x 10", new; two Deane Triplex Stuff Pumps, 8" x 8"; two Fussy & Jones Double Stuff Pumps, 8" x 10"; one Fussy & Jones Triplex Stuff Pump, 6" x 8"; two Rice, Barton & Fales Duplex Stuff Pumps, 6" x 12"; one 10" Worthington Volts; three 4" Centrifugal; three 3" Centrifugal.

**SCREENS**—Four 10-Plate Packer Screens, Witham Fasteners; two 10-Plate Packers; two Wanda Single Cylinders.

**WET MACHINE**—Four Sandy Hill 84"; one 72" Bagley & Sewell Hydraulic; two Black & Clawson 62".

**FRANK H. DAVIS  
 175 Richdale Ave., Cambridge, Mass.**

**FOR SALE**

**FOR SALE**—Photographer's Etching Outfit: suitable for Engravers, Printers, Architects, etc., consisting of one printing screen, size 30½ x 20½, 140 lines per inch; Three solar printing boxes, sizes 31 x 25, 26 x 24, 27½ x 25½; one photo bath; two arc lamps, and complete accessories. Price \$300. Apply to American Lincrusta Company, 561 West 24th St., N. Y. C. F-12

**FOR SALE**—3 second hand Dampening Machines, 57" brush. In good working condition. Built by C. G. Haubold, Chemnitz, Germany. Address, Warren Manufacturing Co., Milford, N. J. F-19

**FOR SALE**—Toilet Paper or Paper Towel Machines. Immediate shipment. Two Diets 84" Perforating Machines, producing sheets of 4.42 x 4½". Also two extra heads and cylinders for both machines, to produce a sheet 4.42 x 4½" for 81" Jumbo Rolls. Two Roll Tighteners. These machines are new, never been uncrated. The manufacturers are about ten weeks behind on deliveries. WE CAN SHIP IMMEDIATELY. Address, Box 1926, care Paper Trade Journal. F-12

**FOR SALE**—Binders and Leather Board Mill. Steam and water power. Good location for expansion. Located in New England. Address, Box 1981, care Paper Trade Journal. F-12

**FOR SALE**—One Hydraulic Elevator 8½' x 6½' platform. 14 feet lift. 8" Plunger. Also two Pope Refiners. Address, Box 1982, care Paper Trade Journal. F-19

**FOR SALE**—One pair press rolls and Stand. Bottom roll, rubber, top roll, cast iron. Eight 28" diam. x 62" face Dryers, complete with stands, gears and steam connections. One 62" Four roll calender stack. One adjustable reel. Press rolls, dryers and calendars fitted with variable speed cone pulleys. This machine is adaptable for making crepe paper or as a sizing machine or for treating paper for various purposes. Address, George Stratford Oakum Co., 160 Cornelson Ave., Jersey City, N. J. F-19

**FOR SALE**

**FOR SALE**—Peck Rewinder and Slitter. Will take 56" roll. Price \$765.00. Address, Box 1984, care Paper Trade Journal. F-26

**FOR SALE**

One No. 1 Claflin Continuous Beater in practically new condition, with extra plug filled, and extra set of steel knives and wood fillings, and two ball bearings end thrusts. Atlantic Paper and Pulp Corporation. Savannah, Ga. F-26

**FOR SALE**

1,000 H.P. Corliss Engine  
Manufactured by Robt. Wetherill & Co. Complete with surface condenser and belt drive wheel. Complete specifications upon request.

DIAMOND STATE FIBRE CO.,  
Bridgeport, Pa. F-5

**MISCELLANEOUS**

**EUROPEAN REPRESENTATIVE**—Pulp and Paper Mill Engineer with extensive experience in America and Europe would like to represent American pulp and paper machinery manufacturers in Scandinavia, Finland and Russia. Will sail for Finland, February 27th. Address, J. E. Heiskanen, 333 West Fourth Street, Dayton, Ohio. F-12

**WANTED**—Indented Rolls for 66" to 74" machine. Address, Box 1949, care Paper Trade Journal.

**CLARK MFG. CO.**, 79 Merrick Ave., Holyoke, Mass., Manufacturers of Cylinder Molds, Dandy Rolls, all kinds of water marks, Wood Felt Rolls, Wood Press Rolls, Tube Rolls, Shower Pipes. We cover your Cylinders at the mill on short notice, or in our shop. We put them on tight. F-12

**I WANT TO GET** into communication with a salesman who is selling now or has been selling for a wholesale paper house, with the object of joining me in enlarging my present paper business located in a growing city in the middle west. All correspondence strictly confidential. Address, Box 1983, care Paper Trade Journal. F-26

**WANTED**

100 tons 30x40 basis 24x36-20 and 25 lb.

**BLEACHED GLASSINE**

50 tons—25 and 30 lb. UNBLEACHED

**GLASSINE**

Submit samples and price for ALL OR ANY PART of lot.

**REPUBLIC BAG & PAPER CO.**  
200 Fifth Ave. New York City  
F-12

**LOCKWOOD'S DIRECTORY****For 1920**

This new edition of LOCKWOOD'S DIRECTORY OF THE PAPER, STATIONERY AND ALLIED TRADES is now ready for delivery.

This edition contains many important changes, and no buyer or seller of paper and allied goods can afford to be without it.

If you have not already sent in your order for LOCKWOOD'S DIRECTORY for 1920, do so now. Edition is limited.

**LOCKWOOD TRADE JOURNAL CO.**

10 East 39th Street

New York

**MISCELLANEOUS**

**PAPER MILL WANTED**—The advertiser would buy a paper mill located in the East making Book and Newsprint Papers. Replies treated confidentially. Principals only. Address, Box 1927, care Paper Trade Journal. F-12

**WANTED**—90 to 96" top and bottom brass couch rolls 16 to 20" in diameter for Fourdrinier and complete Marshall drive for same. Address, Box 1963, care Paper Trade Journal. F-19

**PAPER MILL BUILDINGS WANTED**

One or two machine mill, without machines, beaters, or jordans, preferably with 300 boiler H.P. and 150 H.P. engine, or with electric power at reasonable cost. Will purchase or lease. Floor space should not be less than 200,000 square feet. Address, Box 1991, care Paper Trade Journal, giving full details of type of construction and at least approximate space in each building. M-3

**YOUR OPPORTUNITY**

**Wanted—TWO FIRST CLASS SALESMEN. MUST BE ABLE TO SELL PAPER BAGS and TOILET PAPER.** One with Headquarters at Chicago and one to travel Eastern Territory. Salary commensurate with your ABILITY. H. Norwood Ewing Co., Woolworth Building, New York City.

**FOR SALE**

- One (1)—76" Downingtown Duplex Cutter, new, with twelve pairs back stands.
  - One (1)—86" Beloit Duplex Cutter.
  - One (1)—96" Beloit Duplex Cutter. Both first class condition.
- The Shartle Brothers Machine Co., Middletown, Ohio. tf

**Architects and Engineers**

**CAREY, JAMES L.**, Paper Mill Architect and Engineer, 208 North Laramie avenue, Chicago, Ill.

**CHAPMAN, C. A., Inc.**, Paper Mill Architects and Engineers, 28 Jackson Boulevard E., Chicago, Ill.

**GNOW, S. M.**, Mill Architect, Engineer, Paper and Pulp Mills. Steam and Water Power plants. 55 Kilby street, Boston, Mass.

**Rags, Paper Stock, Etc.**

**BERLOWITZ, PAUL**, 132 Nassau street, New York. Importer of Rags, Bagging, New Cuttings.

**CHASE & NORTON**, High Grade Shavings and Book Stock a specialty. 277 Water street, New York.

**FLYNN, MICHAEL**, 54 Columbia street, Brooklyn, N. Y.

**GOLDSTEIN, R., & SON**, Baltimore, Md., Cotton Rags and Paper Stock.

**JACOB & CO.**, Alexander, Wrapping, London, England. Supply all classes Waste Papers and Shavings, Paper Making, Rags, etc. Correspondence solicited. Paris Office, 3 Cite d'Hauteville.

**HILLS, GEO. F.**, 234 South Street. Branch House, 274 W. 25th street, N.Y.C.

**LIVERPOOL MARINE STORE CO.**, Liverpool, England. L. M. S. Wood Tag, Manila, Rope and Star Brands (Registered).

**ROSENBAUM, INC., L.**, Lafayette street, New York City. Packers exclusively of new cuttings.

**SHIMMON'S, JOHN, SONS**, Paper and Paper Stock. 28 and 30 South Marshall street, Philadelphia, Pa.

**MISCELLANEOUS**

**Bale Ties**

**WILSON, H. P. & H. F.**, Manufacturers of Steel Wire Bale Ties, for baling all compressible material. 544 West 22nd street, New York City.

**Boards**

**MILLER PAPER CO., FRANK P.**, high grade specialties. Boards. East Downingtown, Pa.

**Special Machinery**

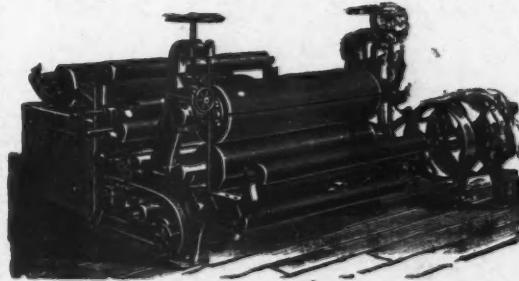
**SWIFT, GEORGE W., JR.**, Designer and Manufacturer of Special Machinery for Manufacturing and Printing Paper Goods. Bordentown, N. J.

**H. C. CLARK & SON MACHINE CO.**

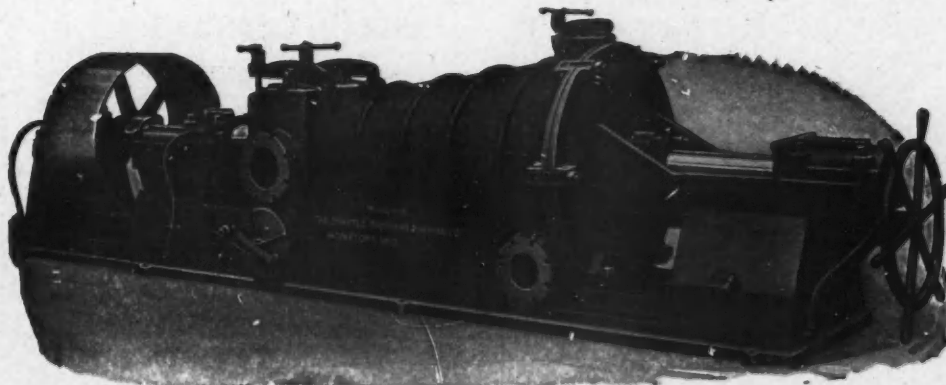
Manufacturers of **PAPER MILL MACHINERY**

LEE, MASS.

Revolving Paper Cutters Rag Cutters Cylinder Paper Machines Washing and Beating Engines



- Chilled Iron and Paper Calenders
- Fan and Stuff Pumps
- Engine Roll Bars and Bed Plates
- Cylinder Molds
- Marshall Drives
- Slitters and Rewinders
- Reels
- Dryers with Improved Packing Boxes
- Wet Machines
- Gun Metal and Rubber Rolls
- Rolls Reground



The  
**Shartle Bros.  
Machine Co.**  
Middletown  
Ohio

"Fine Paper Mill Site in Vermont on main line, B. & A. R. R. Part mill buildings and dwellings. Water capable developing four hundred horse power. Also excellent buildings in Massachusetts and New York State. Ground wood plant in New York State with large water power. High grade paper mill in Pennsylvania. Board Mills in Maryland and North Carolina. Leather Board Mills in Connecticut. Tissue Mills in New Jersey, Pennsylvania, Maryland and New York State. Wrapping Mills in New York State. Two second-hand Board Machines, 72" trim."

### GIBBS-BROWER COMPANY

Paper and Pulp Mill Brokers

No. 261 Broadway, New York City  
Telephone—Barclay 8828

OUR MOTTO—"Service First" TF

### TISSUE MILL FOR SALE IN MIDDLE ATLANTIC STATES

Centrally located. Plenty of good water for manufacturing purposes. Railroad siding at Mill, also four trunk lines available. Mill run by electricity—power very reasonable. Three large beating and one Jordan refining engines. One Fourdrinier Paper Machine trimming 96 inches. Entire property in A1 condition. In constant operation. An excellent proposition.

### GIBBS-BROWER COMPANY

PAPER AND PULP MILL BROKERS

261 Broadway New York City

Telephone—Barclay 8828

OUR MOTTO—"Service First" TF

### LEATHER BOARD MILL FOR SALE SOUTH COVENTRY, CONN.

150 yards from main line Central Vermont R. R. Twenty acres of land with mill. One 100 H. P. Fitchburg Engine and one 100 H. P. Dillon Boiler. 25 to 50 H. P. water power the year round. Excellent water for manufacturing purposes. Two 1000-lb. Beaters and one Jordan Engine. One Case 48 inch cylinder and one Smith and Winchester 48 in. cylinder Paper Machines. One Farrell Calendar. One 42 excellent condition. Mill idle since War owing to coal in Cameron Slitter. Machinery and equipment in shortage. Well worth investigation.

### GIBBS-BROWER COMPANY

PAPER AND PULP MILL BROKERS

261 Broadway New York City

Telephone—Barclay 8828

OUR MOTTO—"Service First" TF

### PAPER MILL FOR SALE AT MELLENVILLE, N. Y.

Mill now in operation. On State Road five miles from Hudson. 1/8 mile from B. & A. Railroad Station. R. R. switch might be put in. Good, clear stream of water. Dam in A1 condition. 150 H. P. La Fell water wheel. 150 H. P. Corliiss and one 53 H. P. variable speed engines. Three 1000-lb. Beating and one Jordan engines. One 54" two cylinder Paper Machine. Room for a second Paper Machine. Entire buildings of solid concrete construction. Buildings alone could not be replaced today at price asked for entire property.

### GIBBS-BROWER COMPANY

PAPER AND PULP MILL BROKERS

261 Broadway New York City

Telephone—Barclay 8828

OUR MOTTO—"Service First" TF

### WIDNEY MODULIMETER

#### WIDNEY MODULIMETER

This instrument will tell the physical properties of any material, and will show its "molecular life" or "recovery."

and this directly indicates its durability.

Now you can know, when you buy or sell, just what values you have and how they will endure.

The Widney Co., TESTING ENGINEERS  
353 S. Jefferson St., Chicago

The Name "HANO" stands for fair business dealing. It will be a hallmark in the paper industry within a few years.

### PHILIP HANO & CO.

Paper in perfect and also seconds carefully examined, sorted and re-wrapped

An Unusually Competent Sales Organization  
802-810 Greenwich Street, New York

## E. J. KELLER COMPANY

INCORPORATED

200 FIFTH AVENUE  
NEW YORK

FOREIGN AND DOMESTIC

PAPER MAKERS' SUPPLIES  
COTTON, JUTE and FLAX WASTES  
COTTON BAGGING MATERIALS  
EAST INDIA MERCHANDISE

## The Grasselli Chemical Co.

Dyestuffs Department

117 Hudson Street New York

ANILINE COLORS  
FOR  
PAPER MAKERS

Branches:

Boston Providence Philadelphia Chicago  
Charlotte Toronto Montreal

**EFFICIENCY ENGINEERING BY EFFICIENT ENGINEERS**

**FREDERICK L. SMITH**  
21 EAST 40TH STREET, NEW YORK  
**PULP AND PAPER MILL ENGINEER**

**HARDY S. FERGUSON**  
CONSULTING ENGINEER.

MEMBER AM. SOC. C. E.  
" AM. SOC. M. E.  
" ENG. INST. CAN.

200 FIFTH AVENUE, NEW YORK CITY

PAPER, PULP AND FIBRE MILLS,  
INCLUDING BUILDING AND  
COMPLETE MECHANICAL EQUIPMENT.  
WATER POWER DEVELOPMENT,  
DAM, STORAGE RESERVOIRS AND OTHER  
HYDRAULIC STRUCTURES.

EXAMINATIONS,  
REPORTS,  
ESTIMATES OF COST,  
DESIGNS,  
SPECIFICATIONS,  
VALUATIONS.

**Timber Lands Bought and Sold.**  
**Timber and Pulp Wood Estimates.**

**R. R. BRADLEY,**  
Consulting Forester

58 Telegraph Building, Hospital St., Montreal, P. Q.

**OVER 1,000,000 ACRES**

Our cruisers estimated the timber and pulpwood during 1919. Organization, System and Men. We have them.

**JAMES W. SEWALL, Old Town, Maine**

**MANHATTAN PERFORATED METAL CO.**

Office and Works: 237-239 Centre St., New York

**PERFORATORS**

of COPPER, BRASS, ZINC, ALUMINUM, TIN, STEEL, IRON, Etc.

Write for Copper, Brass, Tin or Aluminum Catalog.

Brass and Copper Centrifugal and Juice Strainer Plates a Specialty

**THOMAS L. TOMLINES & SON**  
CONSULTING ENGINEERS

ASSOC. M. AM. SOC. C. E.; 317-319 CITY BANK BLDG., SYRACUSE, N. Y.  
M. AM. SOC. M. E.  
Paper, Pulp and Fibre Mills, Hydro- Steam Power Plants, Plans and  
draulic Developments, Hydro- Specifications, Efficiency Engi-  
Electric Plants neering  
**CONSULTATION AND REPORTS**

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Established 1892

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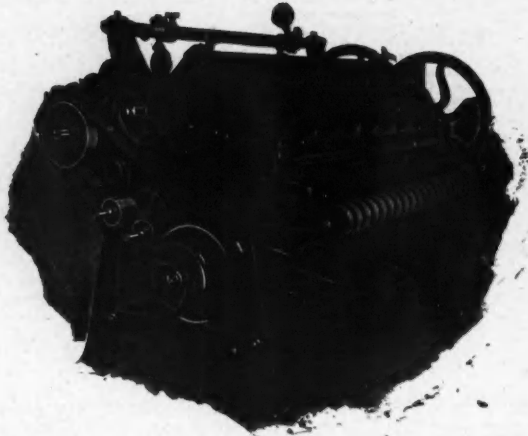
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17 YEARS' EXPERIENCE IS BUILT INTO OUR  
**SLITTING AND REWINDING MACHINES**

CAMERON MACHINE CO., BROOKLYN, N. Y.

# Paper Cutters

Single, Duplex and Diagonal



Cutter Knives      Patent Top Slitters  
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*Largest Manufacturers  
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### CHILLED ROLLS



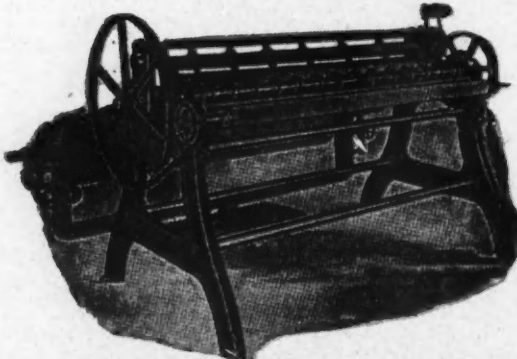
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with Patent Hydraulic Lift

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For making Toilet Paper Rolls with or without perforations



Self-Adjusting—Easy to Operate  
 WE ALSO MANUFACTURE

### AUTOMATIC TUBE MACHINES

FOR MAKING TUBES FOR TOILET PAPER ROLLS  
 CAPABLE OF PRODUCING 3,600 WIRE STITCHED  
 TUBES PER HOUR

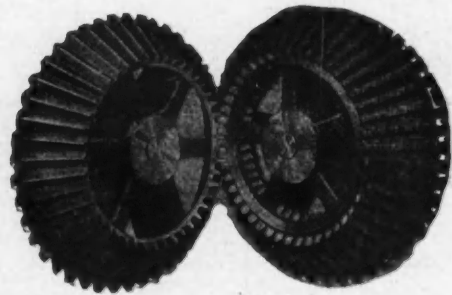
Also machines for making Sanitary Crepe Paper Towels, Slitting and Rewinding Machines, Drop Roll Slitters, Side and Center Seam Merchandise Envelope Machines, Photo Mount Revolving Machines, Candy Bag Machines, Punch Presses for Playing Cards, Rotary Card Cutting and Collating Machines, Etc. CORRESPONDENCE SOLICITED.

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Castings of semi-steel by our improved method of machine molding, thus insuring uniform tooth spacing, true rims and smooth running, with high efficiency. Teeth of both Mortise wheel and pinion finished by accurate gear cutting machinery.

DESIGNERS AND BUILDERS  
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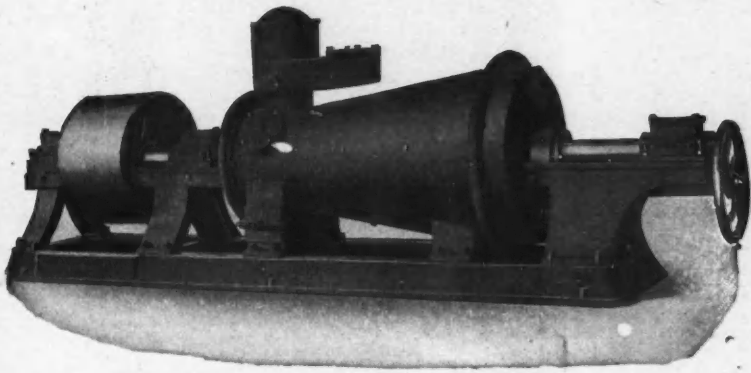
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Our latest Improved Machine, three sizes; belt or direct connected motor driven. All Bearings self-oiling, adjustable and water-cooled. Outside stand fitted with gauge to keep the plug central with the shell.

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Builders of Paper Mill Machinery  
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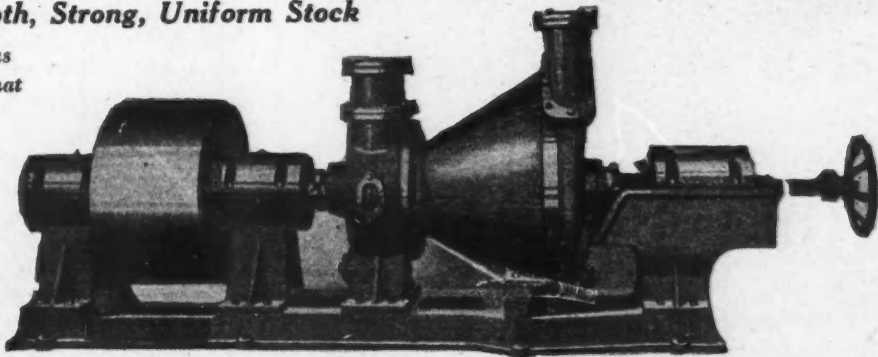
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*Produce a Fine, Smooth, Strong, Uniform Stock*

*The 250 Clafin Continuous Beaters now in use prove that*

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Leather Board  
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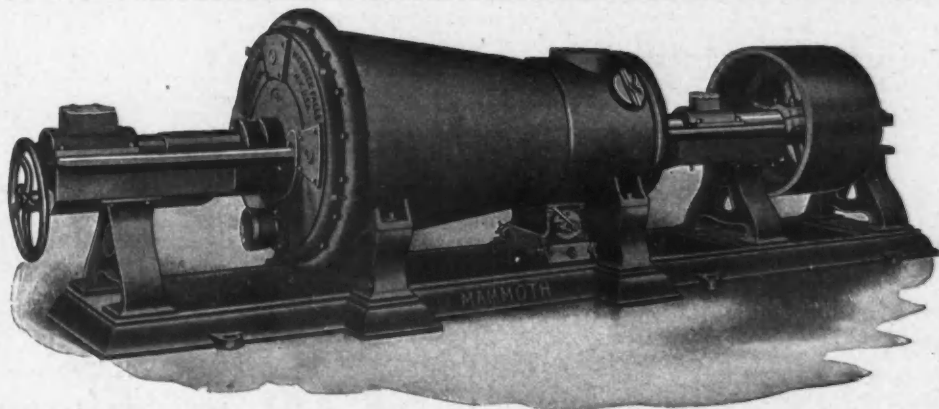


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The Canadian Fairbanks-Morse Co., Montreal, Quebec, Agents for Dominion of Canada

**WE MAKE  
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JORDANS OF  
QUALITY**

**SIX SIZES OF  
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TO 3000 LBS.**



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## PLIBRICO Keeps the Heat Where It Belongs

PLIBRICO keeps the heat in the furnace, because it forms a jointless one-piece lining in your front door arches, entire fronts, side walls, arches, bridge walls, etc. This lining is gas and air-tight, saves fuel while at the same time greatly reduces your furnace upkeep, will last longer, give better satisfaction and can be more easily repaired than a lining constructed of fire brick or fire clay. PLIBRICO is also unexcelled for baffle construction and repairs.

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Offices and Factory, 1130-1150 Clay St., Chicago, Ill.

Canadian Representatives { Beveridge Paper Co., Ltd., Montreal  
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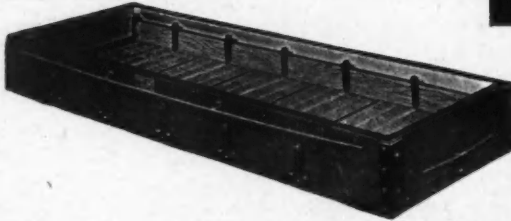
Shipped in steel containers only. Warehouse stock carried in principal cities for immediate delivery.



Trade Mark  
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LENNOXVILLE, P. O. CANADA



UNION BRONZE SCREEN PLATES ROLLED BRASS  
(Best phosphorized Cast Metal) (Union Quality)

Old Plates RECLOSED and RECUT to accurate gaugs.

UNION BRONZE SCREWS for Screen Plates

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Immediate Delivery of the Largest Orders. Satisfaction Guaranteed.

The WITHAM SCREEN PLATE FASTENER, Patented

THE ORIGINAL

THE BEST

Over One Thousand in Successful Operation

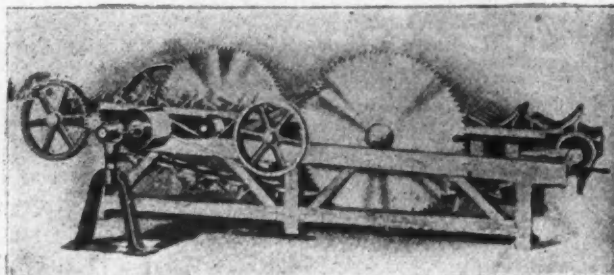
Recommended by Screen Makers

## Increased Capacity Lower Cost Per Cord

THE

### Ryther Slasher

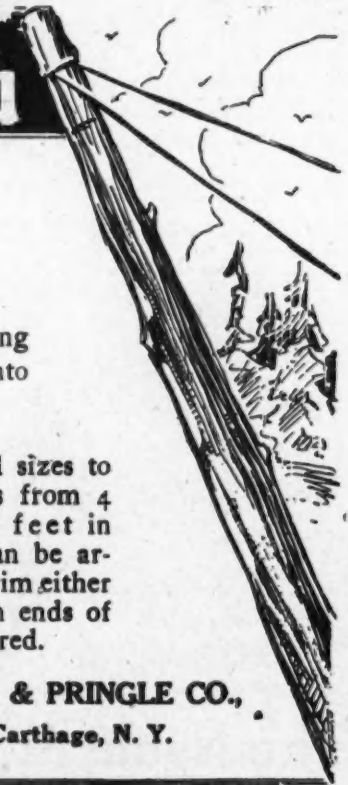
is the most efficient and the lowest cost method of reducing long logs to uniform short lengths suitable for further manufacture into pulp and paper.



Built in all sizes to handle logs from 4 feet to 32 feet in length. Can be arranged to trim either one or both ends of logs if desired.

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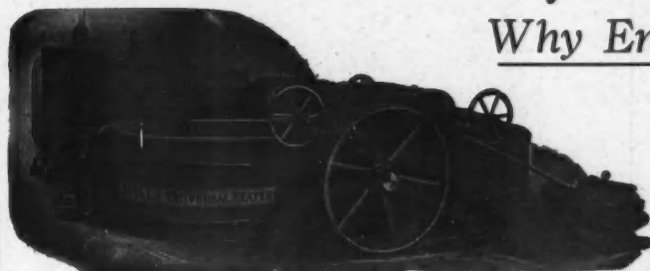
The West Virginia Pulp & Paper Co., Mechanicville, N. Y., having six machines are now 100% equipped with the FEENEY AUTOMATIC STUFF BOX, as here illustrated, shipments to them being as follows:

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1.....July 2, 1915	1.....Dec. 9, 1916
1.....July 14, 1915	1.....July 18, 1919

Isn't this sufficiently convincing of the desirability of this device? Manufactured exclusively by

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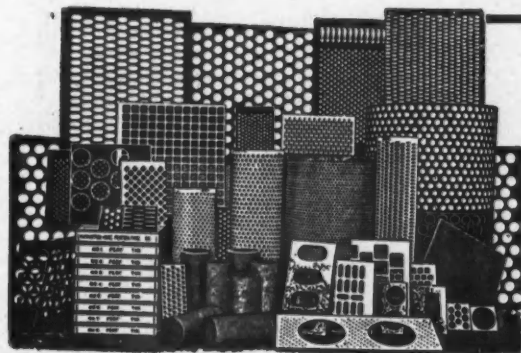
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*Why Add More Power?*

This beater reduces stock to fibre of equal or better quality in half to one quarter of the time and with a saving of power which is remarkable. Do not take our word. Investigate. Manufactured by

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Builders of all kinds of paper mill machinery



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**Paper and Pulp Mill Screens**  
STEEL, IRON, COPPER, BRASS, BRONZE

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Centrifugal and Rotary Screens—Drainer—Bottoms—Filter Plates—Pulp Washers, etc All sizes and shapes of holes in many thicknesses and dimensions of sheets. Accuracy in all details and excellence of quality at lowest consistent prices.

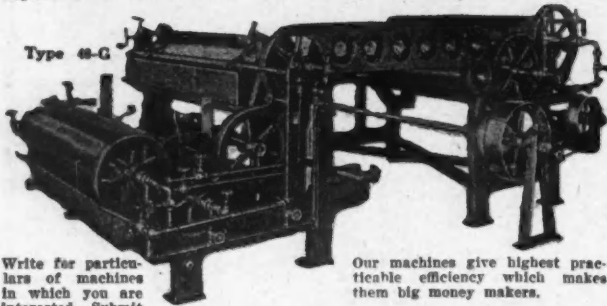
**THE HARRINGTON & KING PERFORATING CO.**

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for making Carbon, Waxed, Oiled, Glued, Gummed, Asphalt and Veneered Papers. Allied lines to order.



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Our machines give highest practicable efficiency which makes them big money makers.

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**DILLON & BARNES**

*Paper Mill Products and Supplies*  
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Special Shaped Carbon, Black Diamond POINTS FOR TURNING Paper, Cotton, Chilled Iron and Hardened Steel Calendar Rolls, Hard Rubber, Fibre, etc.

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**"NATIONAL ROPE DUPLEX"**  
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Write today for complete information.



**WALL BOARD CUTTER**

Cuts to length all kinds of heavy Sheet Stock, Fiber and Wall Board. Gives Uniform Sheet Lengths, Clean Cut Edges. No Buckling of Web.

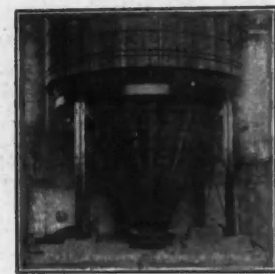
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Patented  
**AUTOMATIC TUBE MACHINE**  
Wire Stitched Tube  
TOILET PAPER MACHINERY  
**GRISSINGER MACHINE WORKS**  
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Manufacturers of All Special Small Roll Products  
  
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**SLITTERS AND REWINDERS**  
FOR EVERY PURPOSE  
**MEISEL PRESS MFG. CO.**  
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19 YEARS' EXPERIENCE

**ALUM**  
FOR THE PAPER MAKER  
Manufactured by  
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QUALITY SERVICE  
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**NEW ENGLAND TANK & TOWER CO.**  
  
**WOOD TANKS FOR ALL PURPOSES**  
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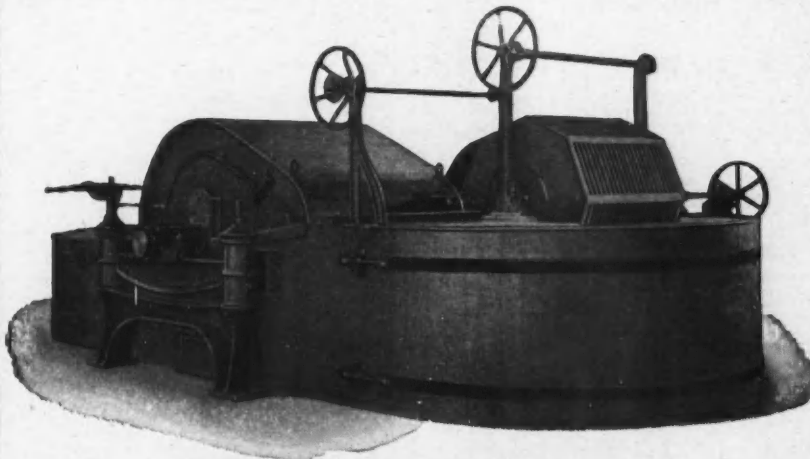
# Bleached Sulphite Pulp

**RIORDON SALES COMPANY, Ltd., Montreal**

Sell 140 tons per day of Bleached Sulphite  
 fibre made from choicest Quebec spruce wood,  
 produced at Hawkesbury and at Merriton,  
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*Your patronage will be welcome.*

**T. J. STEVENSON & GEO. E. CHALLES, SALES MANAGERS**



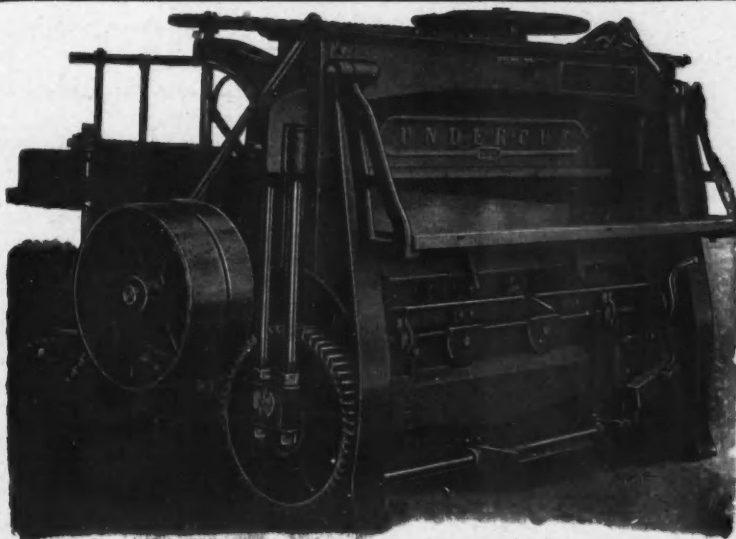
**WOOD AND IRON TUB BEATERS**

**Fourdrinier  
 Machines**

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**Pulp Machinery**

**Downingtown Mfg. Co.  
 Downingtown, Pa.**



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The Paper Mill Cutter, combining the highest degree of accuracy, speed and simplicity for the most exact trimming.

The clamping power of the Undercut is not equalled by any other cutter, and assures absolute accuracy in trimming. The safety in operating an Undercut is a very important fact to be considered, as well as simplicity of design and construction carried out in the best manner and workmanship possible.

The speed of the Undercut is such that more cuts can be utilized in the working of our machine than in the high-speed cutters, which not only consume power, but wear out rapidly.

Our Power Back Gauge Drive enables the operator to handle material quickly, easily, and more in quantity than can be secured in the use of other machines.

For further and full information, call upon

**The Smith & Winchester Mfg. Co.**

Builders of High Grade Paper Mill  
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 South Windham, Conn.

**WILLIAM A. HARDY & SONS COMPANY, Fitchburg, Mass., U. S. A.**



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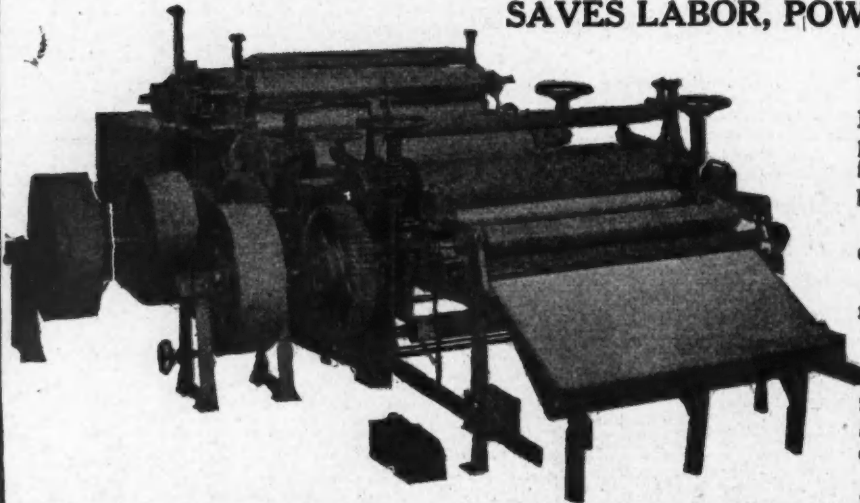
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These Felts are Woven Endless

**THE ORR FELT & BLANKET CO., Piqua, Ohio, U. S. A.**

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SAVES LABOR, POWER AND FREIGHT



Built both single and double press. They operate successfully on both sulphite and sulphate pulp.

Felt cost is low considering dryness obtained.

Ball bearings for cylinder mould and couch roll.

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Illustration shows Rogers Double Wet Machine which has a capacity of 30 dry tons in 24 hours.

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*Try Our Split Cams for Your Flat Screens*

# Specify "BIGGS" Rotaries



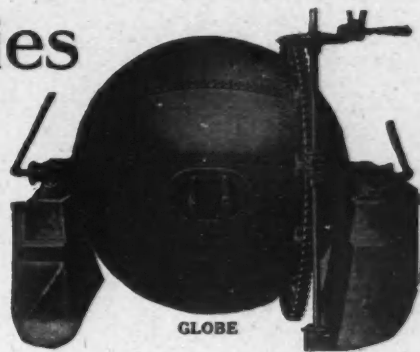
CYLINDER

in "your" next installation!

*There's a Reason*

Steel pressure and storage tanks for every purpose

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LAWRENCE MASS.



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### The "EMERSON" JORDAN

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SPECIAL SHADES MATCHED

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