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PAPER TRADE JOURNAL

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 ESTABLISHED IN 1872

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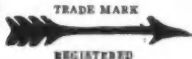
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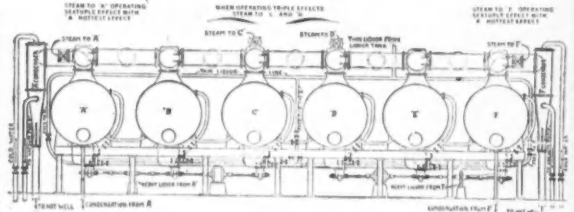
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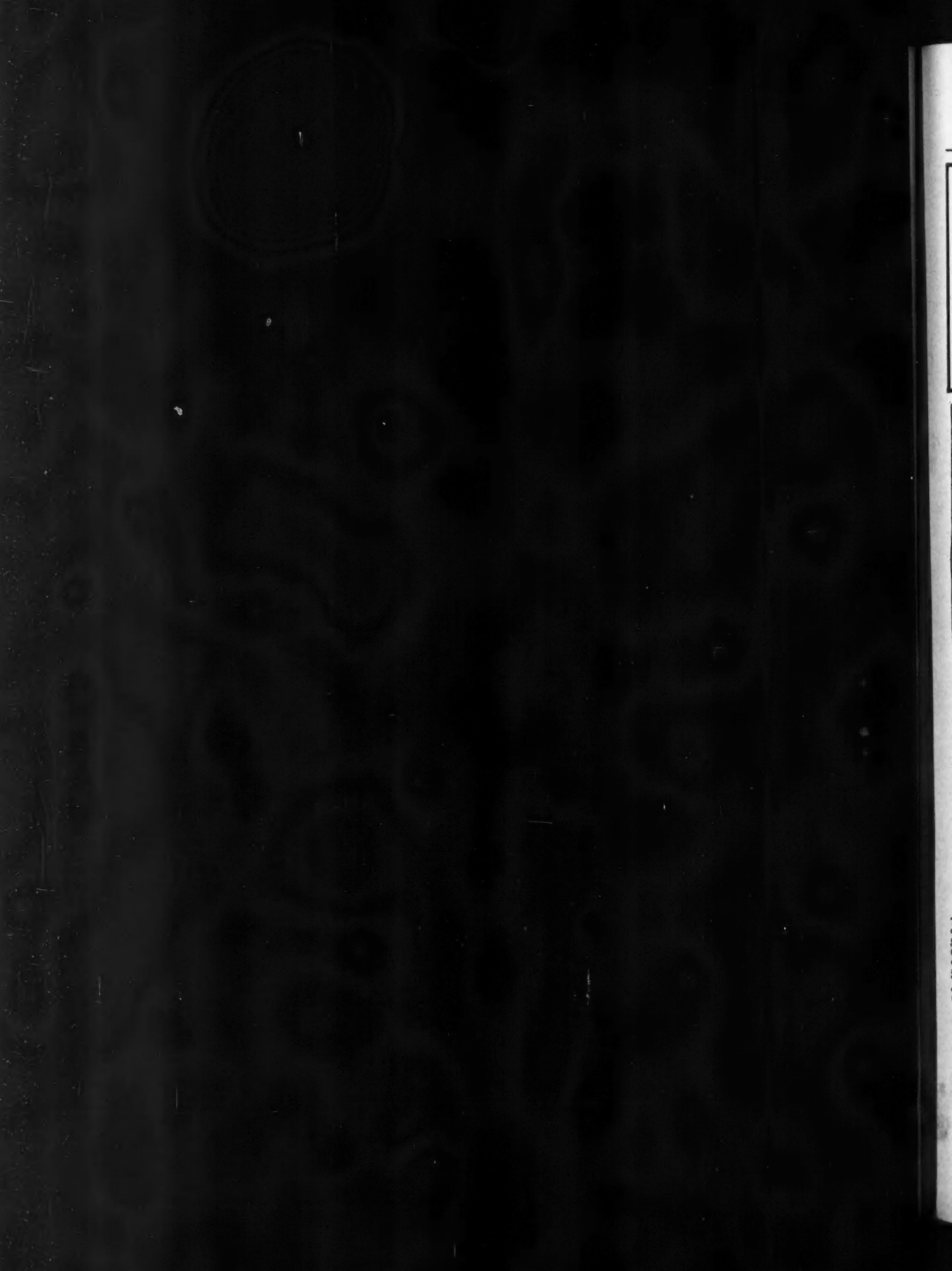


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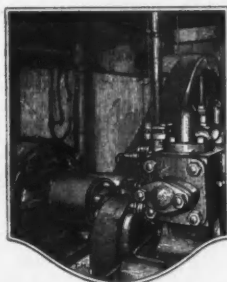
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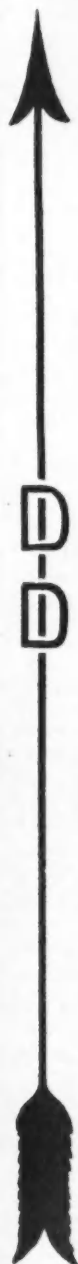


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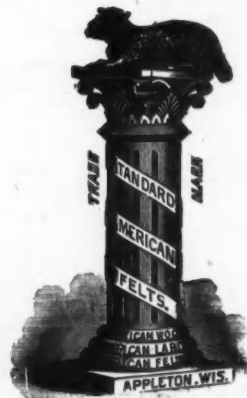
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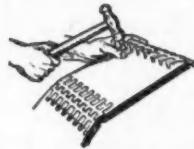
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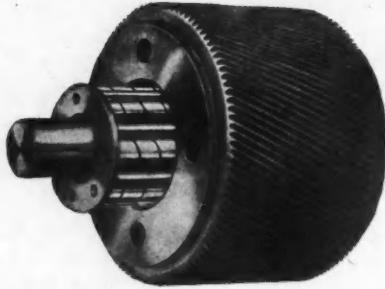
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PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY

FORTY-EIGHTH YEAR

PUBLISHED EVERY THURSDAY BY THE
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Vol. LXIX. No. 9

NEW YORK AND CHICAGO

Thursday, August, 28, 1919

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SURVEY OF PULP WOOD TIMBER IS URGED BY SENATOR WATSON

Introduces Resolution Which Provides That the Secretary of Agriculture be Authorized to Make Survey in Northeastern Part of the United States and to Make Recommendations For the Methods of Use, Conservation and Replacement of Same—Senator Reed Introduces Resolution to Investigate the News Print Situation—Wants to Investigate Labor Cost in Paper.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., August 26, 1919.—Senator Watson, of Indiana, on Saturday introduced a resolution in the Senate calling for a survey of pulp wood timber, which was referred to the Committee on Agriculture and Forestry. The resolution is as follows:

Resolved, etc., That the Secretary of Agriculture be, and is hereby, authorized and directed to have made by the Bureau of Forestry, a survey of the resources of pulp-wood timber in the northeastern part of the United States, and to make recommendations for the methods of use, conservation, and replacement of same.

SEC. 2. That the Secretary of Agriculture also be, and is hereby, authorized and directed to make a preliminary investigation of the approximate and possible available pulp-wood supply in central and western United States, with recommendations for its utilization.

SEC. 3. That the sum of \$100,000 be, and the same is hereby, appropriated, out of any money in the Treasury not otherwise appropriated, for the purpose of carrying out the above work.

In connection with the resolution Senator Watson has the following statement inserted in the *Congressional Record*:

Consumption and Production of Pulp Wood

Annual consumption of pulp wood and total cost for specified years.

Year.	Consumption, cords.	Total cost.
1918	5,250,794	\$73,167,118
1917	5,480,075	60,815,057
1916	5,228,558	45,785,682
1914	4,470,763	39,408,453
1911	4,328,052	.....
1910	4,094,306	.....
1909	4,001,607	34,477,540
1908	3,346,953	28,047,473
1907	3,962,660	32,360,276
1906	3,661,176	26,411,887
1905	3,192,123	17,735,665
1899	1,986,310	9,837,516

¹Not including cost of "slabs and other mill waste" in Louisiana, Massachusetts, North Carolina and Virginia.

"In 1918 there were 250 establishments manufacturing wood pulp, and they used 5,250,794 cords of wood for this purpose. The price of this pulp wood shows an increase of more than 200 per cent. In 1899 the average cost per cord was \$4.95, in 1909 it was \$8.62, and in 1918 it was \$13.93 per cord. In 1917 the average cost of pulp wood increased from the 1916 average of \$8.76 to \$11.10 per cord, or 27 per cent. In 1918 it increased to \$13.93, or 25 per cent. The increase in 1918 over the 1917 price was 37 per cent in Maine, 24 per cent in New York, 13 per cent in Wisconsin, 38 per cent in Pennsylvania, 31 per cent in New Hampshire. In 1918, 76 per cent of the total output of wood pulp was manufactured in Maine, New York, Wisconsin, New Hampshire, and Pennsylvania.

Pulp Wood and News Print Situation

"Two-thirds of the news print paper used by American newspapers is imported or is manufactured from wood or pulp im-

ported from Canada. One-third is made in the United States from wood grown in the United States. The former proportion is steadily increasing, the latter is steadily decreasing.

"Nearly all of the American news print manufacturing industry is located in the Northeastern States—half of it in New York. Forests of wood suitable for pulp making are being exhausted in the Northeastern States. At the present rate of depletion but a negligible quantity will be left at the end of 10 or 20 years.

"But in the Pacific Northwest—Washington, Oregon, and part of California—and the inland empire of northwestern Montana and northern Idaho are great forests that have been no more than touched by the few pulp mills in that section of the country.

"And in Alaska are enormous areas of forests, the annual growth of which would supply pulp enough for half of the news print paper used in the United States, but there are no pulp mills there.

"Few pulp mills have been established in the Northwest, and none have been established in Alaska, in part because of the disadvantage in freight rates in reaching the eastern markets. The Panama Canal is believed to have removed much of the reason for this disadvantage; but other obstacles, such as the disinclination of business to pioneer in new fields, remain.

"Development of news print production in these regions is also retarded, it is believed, by the lack of authoritative knowledge of the extent and character of the available supplies of forest material, their location and accessibility, available water power, and the general situation which confronts the industry.

"The practice of forestry, which is now the only possible means of a permanent supply of domestic pulpwood in the East, it is believed, would be greatly stimulated by such a survey, which would develop in detail the seriousness of the situation.

"The sum of existing conditions is that American newspapers are becoming more and more dependent upon foreign sources for the raw material from which news print paper is made, the raw material is being exhausted in the section where the domestic industry is concentrated and mills are moving from this country to Canada; while at the same time the United States contains forest resources in the Northwest and in Alaska that promise abundant supply for many years, and indefinitely under proper conservation of the industry can be built up in these regions.

"A condition of dependence upon foreign supplies of news print carries with it serious possibilities not only for consumers of news print—chiefly our newspapers—but also for other business interests and the public generally. It would afford a dangerous opening for covert interference with the freedom of the press and with untrammelled development of business through advertising. That such a danger is not imaginary has been evidenced abroad.

"A permanent domestic news print industry is therefore a matter of public importance. Its maintenance is believed to be entirely practicable if the proper public action is taken.

"The Forest Service of the United States Department of Agriculture, to prevent American newspapers from becoming totally dependent upon a foreign supply, recommends:

"First. An adequate governmental survey of American resources in this field.

"Second. To bring about the practice of forestry and the conservation of forests in the pulp-producing regions, to the end that the annual inroads upon the forests will be lessened and eventually will be no more than equal to the annual growth. This part of the program would require Federal and State legislation.

"Third. The development of the pulp-making industry in the Northwest and in Alaska at the earliest practicable time.

"The following resolution was recently adopted at a meeting of the Canadian Forestry Association:

"Whereas, An accurate survey of all standing timber in Canada, showing the various kinds of timber, the quality, location, and accessibility, together with available means of transporting same to the nearest market, also a report of all cut-over lands which

are suitable only for forest growth, with the extent and location of same, would be most valuable information not only to timber operators, but to the various Dominion and provincial governments, enabling them to develop to the full extent a permanent forest policy, which would have the effect of conserving the great natural resources contained in Canada's forests: Be it

"Resolved, That the Canadian Forestry Association urge upon the proper governmental authorities to provide adequate financial assistance and clothe the commission of conservation with the necessary authority for the purpose of accomplishing the end in view.

"Similar resolutions have been passed by many organizations in the United States.

Mr. Kellogg's Views

"R. S. Kellogg, secretary of the News Print Service Bureau, in his report of February 11, 1919, has this to say:

"* * * No other method of wood utilization approaches that of pulp and paper manufacture in the completeness with which the raw material is used, and no one can set a limit to the number of articles of daily utility that it is possible to manufacture from pulp and paper. These articles will be manufactured in greater quantity and variety as our knowledge increases and as higher values of forest products lead to more scientific utilization of the timber supply. Pulp and paper manufacturing is the one great industry using wood as a raw material in which there is much hope for the practice of forestry as a commercial undertaking upon privately owned land. The production of large-size timber is too long an undertaking, with too great hazards and too low a rate of return, to attract the investor or to appeal to the practical sense of lumber manufacturers. On the other hand, the production of pulp wood of rapid growing species under good conditions is a matter of much shorter time than the growing of saw timber, and the amount of capital invested in a pulp and paper mill is so great as to require a long period of return. Hence it is to the pulp and paper industry that professional foresters of the country turn most hopefully for the practical application of their principles, and it is gratifying to note that a number of members of the bureau have upon their staffs excellently qualified foresters, and that in addition to protecting their timberlands from fire these companies are engaging in large-scale timber-planting operations for the definite purpose of providing a future supply of pulp wood for their mills.

"The importance of a survey of the timber available for pulp wood can not be overstated, for the reason that it is absolutely necessary to know just what we have, as all methods of replacement, conservation, and general questions in connection with the solution of this problem must be based upon the present available supply and the probable time it will last.

"There was consumed in the United States during the year 1918, 5,250,794 cords of pulp wood. If these cords were placed end to end they would reach entirely across the Continent of North America and nearly to the middle of the Pacific Ocean; one-third of this made from timber cut in the United States, enough to make one long cord of wood reaching from Boston to Liverpool.

"The demand for pulp wood is increasing and the supply is diminishing."

Wants to Investigate News Print

Senator Reed, of Missouri, as already reported in a brief dispatch to the PAPER TRADE JOURNAL last week introduced a resolution in the Senate for the investigation of the news print industry. The resolution which has been referred to the Senate Committee on Manufacturers is as follows:

"Resolved, that the committee on manufacturers or any sub-committee thereof is hereby authorized and directed to investigate the news print paper industry and to ascertain whether it is now or has been engaged in discriminatory, unjust, or illegal practices and whether the prices now being charged for news print paper or similar products are excessive and the causes for existing prices.

"The committee shall report to the Senate the result of its investigation together with such findings and recommendations as it may deem proper to make."

Labor Cost in Paper

Representative Carass, of Minnesota, has introduced a resolution in the House requesting the President to furnish the House "with such information as may now be in the possession of the Federal Trade Commission which will identify or tend to identify the proportion that labor cost forms in the total production of" paper. The resolution has been referred to the House Committee on Interstate and Foreign Commerce.

Instructions Regarding Government Paper

The Public Printer is sending instructions relative to paper to be delivered to the Government Printing Office to all paper jobbers and manufacturers who deal with the Printing Office, which in part are as follows:

Preference will be given to bidders who comply literally with all the conditions of the following instructions, but bidders may base their proposals upon such other terms and conditions as they desire to submit, with the exception that when ground wood is prohibited, samples containing it will not be considered.

Proposals will be opened publicly, read aloud, and recorded in the Purchasing Division of the Government Printing Office. Bidders or their representatives may be present. Proposals must be in the possession of the Purchasing Agent at or before the time set for opening.

The awards will be made to the lowest and best bidders for the interest of the Government. The Public Printer reserves the right to waive technical defects, to reject any or all bids, or to accept any bid or any part and reject the other part, if, in his opinion, such action would be in the interest of the Government.

Each lot of paper will be considered separately. Bidders may bid for one or more of the lots.

All the paper must be of the specified weight, exclusive of cases, wrappers, and twine or roll-paper cores.

Paper will be paid for at the ordered weight unless short, in which case it will be paid for at the net weight. Payment will not be made for cases, wrappers, or other packing materials.

"Mill count," 500 perfect sheets to the ream, unless otherwise specified, must be accurate on all grades of paper. Verification of "ream count" will be made by the Public Printer, and deliveries may be rejected for incorrect count. Shortage will be deducted in case the delivery is accepted.

If latent defects shall be discovered after paper has been accepted, it shall be rejected and the contractor required to replace it.

Proposals must state price per pound and net amount of bid.

Text Books on Paper Making

R. S. Kellogg, secretary of the News Print Service Bureau, has sent out the following notice regarding progress in the preparation of text books on paper making:

"Since the progress report issued on July 15, 1919, Editor J. N. Stephenson has received outlines of the sections on physics; mechanics and hydraulics; electricity and magnetism; bleaching of pulp; finishing operations; paper machines; tub sizing of papers; treatment of rag and other fibres; manufacture of sulphite pulp.

"Preliminary copy of a portion of the manuscript on paper machines has been received and examined, two installments of the manuscript on manufacture of soda pulp have been received, one of them has been examined by the editor and one critic and passed on to another. The manuscript of the section on beating is in the editor's hand, as well as the finished manuscript for the section on arithmetic and mathematical applications.

"Work is progressing on the sections referred to as well as on a number of others so that the preparation of the text is going forward as well as can be expected."

NEW PULP AND PAPER PLANT MAY BE ERECTED IN QUEBEC

American Interests Are Said to Be Anxious to Establish a Mill at Sillery—For Some Months Past American Engineers Have Been in Quebec Taking Observations of the Properties That Line Both Sides of the St. Lawrence and Are Said to Have Expressed Great Admiration for the Resources of That Port as a Center for Export Trade—To Prosecute Settlers for Causing Forest Fires.

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, Quebec, August 25, 1919.—There is a possibility that Quebec will be the scene of a new pulp and paper industry shortly, the plant being located at Sillery. American interests are credited as being anxious to establish such a plant.

For some months past a number of American engineers have been in Quebec taking observations of the properties that line both sides of the River St. Lawrence, and have from time to time expressed their unfeigned admiration of the natural resources of the port and the situations that offer for the establishment of industries giving an output for an export trade. They all agree the port of Quebec is the natural head of the St. Lawrence and should be the principal import and export port of the Dominion.

Quebec is a beau ideal situation for the establishment of a pulp and paper mill for the export of its output to England, France and other European countries. As the natural head of the St. Lawrence, with two hundred miles of a mighty river, there are on both sides great resources of wood required for the manufacture of pulp and paper that could be brought down to Quebec by rail and river craft transportation. There are besides many river tributaries running into the St. Lawrence, and taking into consideration that besides five different lines of railways come to the city from north, east, west and south, and that electric power is within easy reach, makes Quebec one of the most acceptable situations for the establishment of industries in the Dominion of Canada.

Work has commenced on the plant which the International Paper Company intends to erect at Three Rivers, costing approximately \$4,000,000.

Wm. Whyte Goes to Europe

Wm. Whyte, manager of the pulp and paper machinery department of the Canadian Fairbanks Morse Company, left last week for an extended trip to Europe. He will visit the larger mills in Great Britain and Scandinavia. Mr. Whyte was manager of the Abitibi Power & Paper Company while the mill was under construction.

C. F. Buss in New Paper Mill Venture

In connection with the proposed new paper mill, which will likely be erected at Brockville, Ont., for the manufacture of bond, lithograph and catalogue paper, one of the principal promoters is Charles F. Buss, of Mille Roches, where he is superintendent of the plant of the Provincial Paper Mills Company, Limited. Mr. Buss has been with the Provincial Paper Mills for the past ten years and came from Kalamazoo, Mich., at the time the plant was taken over. J. R. Buchanan, of Ottawa, who is associated with him in the proposition, is connected with the Capitol Wire Cloth Company, of Ottawa.

Prosecutions for Forest Fires

Prosecutions of settlers for causing forest fires by burning their land-clearing debris without official permits are proceeding in Ontario, Quebec and New Brunswick. Convictions with heavy fines have already been secured in numbers of cases. Of twenty

settlers brought before the New Brunswick courts in July, fourteen were convicted and given stiff penalties. In addition the magistrates rated them severely for indifference to human safety and the security of neighbors' property. Quebec has sent several settlers to jail because of carelessness in burning off their lands.

General News of the Trade

The marriage of Miss Agnes Nault, daughter of Mr. John Nault, of Outremont, to Mr. Antoine Dubuc, son of J. E. A. Dubuc, of Chicoutimi Pulp & Paper Company, has been announced for September 11.

Guy Toombs, who recently left the service of the Canadian Northern to join the staff of the Canadian Pulp & Paper Association, and who on leaving was presented by his staff with a cut glass punch set, complete with tray, also with a gold signet ring bearing the inscription, "From the ladies of the Canadian Northern Railway," was honored by the presentation of a gold watch and platinum chain from officials of the Ontario and Quebec divisions of the Canadian Northern Railways, the Canadian Northern being merged under that title now.

The presentation was made by Mr. George Stephen, freight traffic manager, Toronto.

Advices received in Montreal from A. L. Dawe, secretary of the Canadian Pulp & Paper Association, who is in London in connection with the Canadian Trade Mission, to further the exportation of Canadian pulp and paper to Great Britain, are to the effect that British consumers are showing great interest in the question of increasing their imports of these products and are prepared to meet the Canadian producers more than half way.

Montreal exporters of pulp and paper report a slight improvement in shipping conditions, and that they are now getting their products overseas with greater facility than formerly, although tonnage rates remain abnormal and still present an almost impassable obstacle to free export.

Pulp Wood Resources of Labrador

Cruising in airplanes over Labrador disclosed great timber lands from which millions of cords of pulp wood could be cut and rolled to streams for direct shipment, according to members of a Boston expedition, which spent the past month there. The expedition was forced to halt here on its return when the steamer *Granville* struck an iceberg and experienced boiler trouble in the Gulf of St. Lawrence.

The expedition, which included in its equipment three airplanes and comprised a personnel of twenty persons, among them five aviators, operated seventy miles north of Battle Harbor. Two million acres of timber lands were explored by air and by the ordinary methods of timber cruising. Pictures taken from the air, numbering 13,000, were said to show dense growths of pulp material in such manner that the most available places could be located readily. This use of the airplane was looked upon as opening a new field for commercial aviation. The planes cruised inland for more than 100 miles, flying at heights of 2,000 to 9,000 feet.

Springfield Glazed Paper Company to Build

SPRINGFIELD, Mass., August 25, 1919.—A 30-foot addition is to be built on the plant of the Springfield Glazed Paper Company at the West Side entrance to the Toll bridge. Although both William H. Shuart, president of the concern, and the general manager are away on a business trip and no other officials of the company were able to give out the details of the addition, it was stated that the mill would be extended for some 30 feet along the river bank.

For some time it has been said that the mill intended to increase its storage facilities in order to keep pace with the production, which has grown tremendously during the past year. It was stated recently, however, that nothing would be done until the new bridge was erected, in order to determine the effect the approach would have on the present site of the factory.

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Say Proposed Investigation Will Only Establish the Fact That the Cost of Production Is Ever Increasing and That the Law of Supply and Demand Is Working Natural Results Upon Prices—Second Big Paper Bag Machine of The A. C. Coty Patent Is Placed on Exhibition by the Watertown Bag Machine Co.—Canadian Mills May Send News Print to England.

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., August 25, 1919.—News print paper manufacturers in this section are not alarmed appreciably by the decision of the United States Senate to make another investigation of their business to ascertain whether their prices are proper or their practices are legal. In fact, local manufacturers were reticent to say anything about the proposition in the absence of any idea as to what sort of charges might be preferred.

A special Associated Press dispatch received Wednesday from Washington was called to their attention. It read as follows: "Investigation of the news print paper industry to determine whether it is engaged in illegal practices and whether prices are excessive was authorized in a resolution introduced today by Senator Reed, Democrat, Missouri, and adopted by the Senate."

George C. Sherman, president of Taggarts Paper Company, was read the message and asked if he could shed any light on the subject.

"The news is interesting but not important," was his only remark.

Other news print manufacturers here were told of the action and asked for statements, but their replies were very much similar to the one given by Mr. Sherman. It was evident that the manufacturers felt confident that nothing would ever come out of the investigation unless it might be to establish the fact that cost of production is ever increasing, and that the law of supply and demand is working natural results upon prices.

Bag Machine on Exhibition

The second big bag machine of the A. C. Coty patent to be built by the Watertown Bag Machine Company was placed on exhibition at the West Main street plant of the company Saturday. Many local paper manufacturers have gone there to observe it in operation. Representatives of the Chamber of Commerce will view it and the representatives of the Japanese concern that has placed an order for one will see it make bags before the demonstration closes. It is doing all claimed for it—and a little more—and is viewed as a perfect success by those who have watched it operate.

This machine will be shipped to the Adams Bag Company to be used in the Chagrin Falls, Ohio, plant the latter part of this week. A representative of the company was here a few weeks ago before the machine was completed, and was satisfied without coming back to see the finished product. It is guaranteed to manufacture 100 bags a minute of $\frac{1}{8}$ barrel size, 90 a minute of $\frac{1}{4}$ barrel size, and 110 a minute of 1-16 barrel size. The demonstration Saturday was on the $\frac{1}{8}$ barrel size and 115 a minute were made smoothly from a heavy roll of paper. There were no breaks and no spoiled bags.

The new machine has several improvements over the first one made last year and sold to the Raymond Bag Company of Middletown, Ohio, which has since been making bags 18x35 inches at an average of 45,000 each nine hours. An important improvement on the new one is the fact that a reverse seam is obtained. This has required considerable effort and delay on the part of the inventor.

Mr. Coty was asked concerning the speed of his machine, and called attention to the fact that his machine weighs over seven

tons, and there is not the slightest vibration, thus avoiding breaks and other troubles found in lighter machines.

Several smaller machines have been made by this concern, but only two of the big Coty patent have thus far been turned out. Orders are coming in every week, but can not be accepted until shop facilities have been established. Two more big machines are now under construction.

The new shops in West Main street, known as the Eager Electric Company plant, which were purchased by the Watertown Bag Machine Company recently, are now being fitted with shafting and machinery for the manufacture of bag machines. Work to this end was started last week. It is recognized that the new invention has passed the experimental stage and that expansion of shop facilities must be had if the demand for the fast producing machine is to be met.

The officers of the company can see a way out if present plans can be perfected. While the shops now occupied are one story and 120x50 feet in dimensions, a lot 100x170 feet is occupied by the building. It is believed that two large machines and a small one could be manufactured each week if the shop was built two stories high and to cover the entire property. It is planned now to extend the present shop 50 feet back to the end of the lot this fall, and later complete the job. This would let the business get started and permit the acceptance of some of the orders already refused because of inability to make and deliver.

The big machine patented by Mr. Coty is designed primarily for the manufacture of flour, cement and coal sacks, and with the reverse seam it makes an air-tight bag. Speed is the important feature of the invention, in addition to the reversed-seam idea.

May Send News Print to England

News print paper mills in Canada are liable to withdraw the enormous tonnage now shipped to this country and turn it across the sea to England, according to discoveries made by several manufacturers in this section who are just returning from the meeting of the News Print Service Bureau held at Montreal last week. The local manufacturers who made the trip are F. L. Carlisle, of the St. Regis Paper Company; J. V. Baron, of Taggarts Paper Company, R. B. Maltby, of the Remington Paper & Power Company; E. B. Sterling, of the West End Paper Company, and J. J. Warren, of the Warren Parchment Company.

While Mr. Carlisle, Mr. Warren and Mr. Maltby returned a few days ago, Mr. Baron returned Wednesday night and Mr. Sterling took a trip to Halifax and will go by boat to New York. Mr. Baron and Mr. Sterling visited the Chicoutimi mills after the meeting.

The local men report that English representatives have been to the mills in Canada in an effort to divert the entire news print production of the mills there from the United States to England. All the surplus pulp is also sought for English mills. It is feared that the mother country may ultimately claim the entire output.

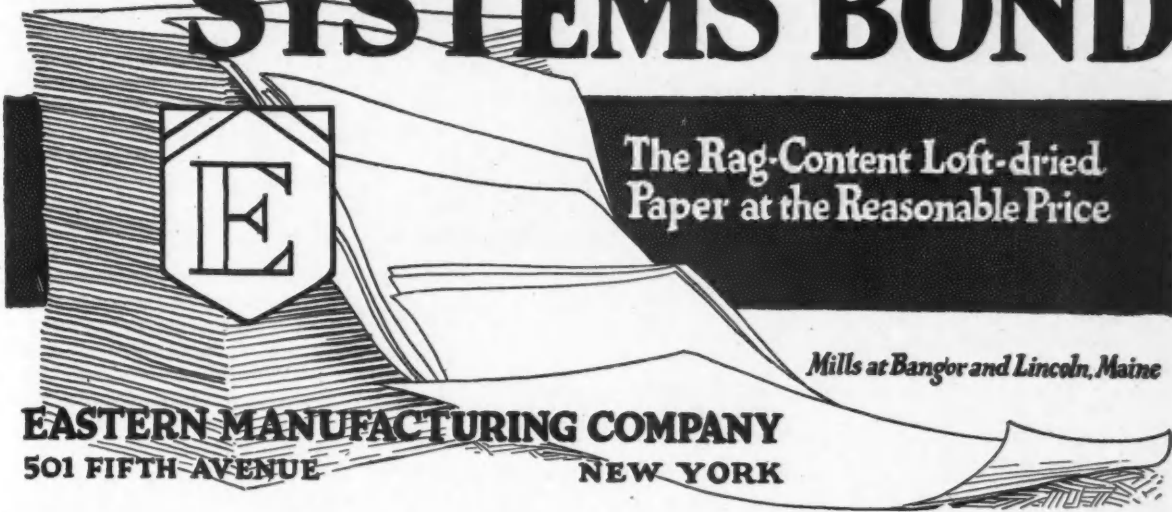
The tendency for some time has been for United States paper manufacturers to invest their capital in Canadian plants, and many paper mills there are now owned by American capital. It is pointed out the Abitibi Paper Company utilized practically the last water power site in Canada suitable for a paper mill, and that a limit seems to have been reached along the line of mill building there. It means the limit of expansion and news print supply. If the output of the mills there is diverted to England it forces a serious situation in this country.

At present it is found that there is a shortage of cars for shipment of paper and pulp in Canada. This results in the slowing up of delivery and adds to the already troublesome shortage of supply. That the demand exceeds the supply is recognized here.

Already offers of five cents a pound for emergency orders of news print are being received here, but the mills are unable to accept. Higher prices are expected.

(Continued on page 38.)

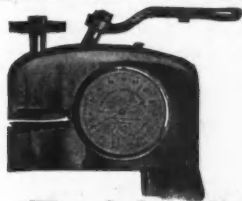
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PAPER DEMAND IMPROVING IN AND ABOUT HOLYOKE

For First Time in Six Months Mills Are Receiving Orders in Sufficiently Large Volume to Assure Fairly Satisfactory Business—George W. Reardon Accepts Position of Superintendent With the Burgess Sulphite Co. at Berlin, N. H.—American Writing Paper Co. Issues Circular Letter Stating That Market Tendency of Wages and Materials Is Upwards.

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, Mass., August 25, 1919.—The situation in the local paper industry is making rapid improvement, and for the first time in more than six months the local mills are receiving orders in sufficient volume to assure fairly satisfactory business. All the independent mills are running on full time and the outlook for business on the better grades of paper is most promising. A demand even more brisk is expected before the snow flies and then a long time after. A prominent manufacturer said the other day that the slump which struck the local mills last November has been gradually wearing off, and that a much more healthy business condition is taking its place. The stocks of jobbers have been exhausted and now all are beginning to rush in orders.

For many months many of the employees of the American Writing Paper Company have been grumbling because of the fact that some of the division mills were closed down because of lack of business. The American Writing Paper Company is of course a mammoth combine and to keep all of the plants running, business must be coming along in a 100 per cent. way. It can now be truthfully stated that the company is coming back into its own again and things are looking up. As an example of this it is only necessary to call attention to the fact that the George C. Gill division of the company, which has been almost entirely shut down since the armistice, reopened this morning on full time. The 152-inch book paper making machine at this division is one of the very largest in the country.

George W. Reardon in Paper Field Again

George W. Reardon, of this city, son of the late William Reardon, also paper maker, and who has been representing H. Waterbury & Sons, of Oriskany, N. Y., manufacturers of paper mill felt, for the past few months, has resigned his position to return to his old field of paper making. He resigned to accept the position of superintendent of the Burgess Sulphite Company at Berlin, N. H. Mr. Reardon is one of the best known among the younger paper makers in this city, having learned the business under the guiding hand of his father, who was widely known throughout the entire industry of the country. For a number of years he was superintendent of the Nonotuck division of the American Writing Paper Company, resigning to join the firm he is now leaving.

William J. Reardon, a brother, who is also expert paper maker, and who resigned recently as superintendent of the Mt. Holly Paper Company at Mt. Holly Springs, Penn., will take George Reardon's place with H. Waterbury & Sons.

George Reardon is not only a fine paper maker, but the best all around athlete the Holyoke High School Athletic Club ever turned out. During his schooling here he was leader in track, baseball, football and basketball. He was a member of the crack high school team of 1900, which won the New England Scholastic championship at the Boston Sportsmen Show, and also played at the Buffalo and St. Louis expositions on the team that won the National Interscholastic championship.

A farewell banquet was given the departing superintendent by his host of friends at the Holyoke Country Club last week.

American Writing Report

The American Writing Paper Company keeps on compiling statistics on everything that directly or indirectly affects the paper market. In a market letter issued last week the company calls attention to the fact that the high cost of living is a fundamental factor in present and future price levels. As wages increase, it says, costs and prices must necessarily advance. Further the report says:

"For months you have been reading that labor must have a larger share in the products of industry. A word as to how this would affect the paper industry. Nearly \$5,000 worth of equipment is required to keep one worker busy in a paper mill. If the paper mills were bought and operated by the employees, each worker would need to borrow \$5,000 as his quota, and his annual interest charges would be about \$300.

"You should remember that in the paper industry the wages paid to the people who operate and repair the mills, cut the wood and make the pulp, collect and sort the rags, mine the coal, run the trains which bring the raw materials to the mills and carry away the product—these wages constitute over 80 per cent. of the total income of the manufacturer. The prices we get and the wages we pay are as closely linked as Siamese twins. He who can maintain wages and at the same time lower his prices could also find the pot of gold at the end of the rainbow.

"The market tendency on the whole must be stated as upward for wages, raw materials, and finished products.

"Our customers realize that it is not possible to increase production in a paper mill by putting on an extra force of men, as the machines operate continuously both night and day under normal conditions.

"For the sake of stability in production and producing costs, we wish to co-operate with the paper merchants to keep orders as nearly uniform in volume as possible. Intermittent production raises costs for all.

"The moderate price advances that have already been made are directly due to advances in materials and labor. These advances would have been made last March if we had strictly observed general manufacturing costs in making prices.

"When we consider that the average per capita expenditures for fine paper in the United States amount only to about two cents per week, we can realize that life is not being made tolerable for the American people through excessive expenditures for paper."

Labor Troubles Adjusted

The impending labor troubles in the local paper industry have now been seemingly adjusted with satisfaction to all, and once more harmony exists between the manufacturers and employees. All the difficulties pertaining to the new wage scale were cleaned up during the week.

Under the new schedule, machine tenders and beater engineers, whose minimum wage is now \$5 and maximum rate \$6, will receive a minimum wage of \$6 a day. The maximum will be \$6.72 and the wage of the employee will be determined by the size of the machine operated.

The minimum for backtenders will be \$4.32 and maximum \$5.04. Backtenders are now paid \$3.76.

Third hands will receive from \$3.92 to \$4.24, as against from \$3.44 to \$3.76.

The minimum for fourth hands will be \$3.92, an increase of 48 cents a day.

Washer engineers will receive from \$4.32 to \$5. They are now getting \$3.76.

Beater helpers and stock diggers also receive an increase of 48 cents a day, being raised from \$3.44.

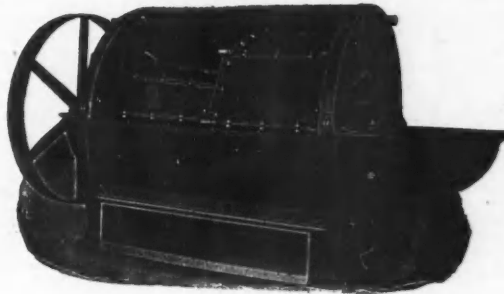
With readjustment of the grievances of the tour workers the wage increase demands of the other allied paper trades will be

(Continued on page 20.)

“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.



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

Knotter Design No. 2

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**

BIDS AND SPECIFICATIONS FOR GOVERNMENT PAPER

Purchasing Officer of the Government Printing Office Opens Bids for Various Lots of Paper—Purchasing Officer of the Panama Canal Announces Awards on Several Lots of Paper for Which Bids Were Opened August 8—Purchasing Officer of the Post Office Department Opens Bids on Envelopes—Bureau of Supplies and Accounts of the Navy Department Opens Bids for Corrugated Boxes.

(FROM OUR REGULAR CORRESPONDENT.)

WASHINGTON, D. C., August 26, 1919.—The Purchasing Officer of the Government Printing Office will open bids on August 29 for 1,100,000 lbs. of calendared manila tag board in 24 inch rolls basis 22½x28½—75.

The Purchasing Officer of the Government Printing Office will open bids tomorrow for 50,000 lbs. (50,000 sheets) of 26x38—No. 50 strawboard.

The Purchasing Officer of the Government Printing Office has received the following paper bids:

105,450 pounds (2,100 reams) of various sizes flat white wove writing paper; Lewerth & Culbertson Company, at \$24625 per pound; R. P. Andrews Paper Company, at \$.22; Merriam Paper Company, at \$.17; Whitaker Paper Company, at \$.19; Aetna Paper Company, at \$.1597; B. F. Bond Paper Company, at \$.217 and \$.2475; Strathmore Paper Company, at \$.22; Dobler & Mudge, at \$.23; American Writing Paper Company, at \$.187; D. L. Ward Company, at \$.19½; Berkshire Hills Paper Company, at \$.24.

2,250 pounds (50 reams) of red and white, 19x24 inches, stereotype molding paper; George W. Millar & Co., at \$.25½ and \$.14¼; Mathers-Lamm Paper Company, at \$.12½ and \$.1395; Dobler & Mudge, at \$.11½ and \$.13½; Domestic Mills Paper Company, at \$.12¼ and \$.13¼; R. P. Andrews Paper Company, at \$.1144 and \$.1345; Whitaker Paper Company, at \$.1249, and Old Dominion Paper Company, at \$.1199 and \$.1417.

The Purchasing Office of the Government Printing Office will open bids on September 3 for the following paper items.

32,500 lbs. (500 reams) of 32 x 48—65 flat white rag machine finished printing paper.

6,400 lbs (200 reams) of 22 x 34—No. 16 dark pink writing paper.

5,000 lbs. (100) reams) 20 x 25—50 rough sage cover paper.

6,700 sheets 19½ x 29 green cover paper.

Government Printing Office Awards

The United States Envelope Company has been awarded the contract by the Purchasing Officer of the Post Office Department for furnishing 25,000 13x15 inch craft envelopes at \$16.05 per thousand. Bids for these envelopes were opened on August 11.

The following paper awards have been announced by the Purchasing Officer of the Government Printing Office, bids for which were opened on August 15:

Dobler & Mudge will furnish 31,400 pounds (200 reams) of 41x52—157 single-coated book paper at \$.10½ per pound.

10,000 pounds (200 reams) of 20x25—50, rough wove dawn cover paper will be furnished by Knowlton Brothers Company, at \$.10875 per pound.

Panama Canal Awards.

The Purchasing Officer of the Panama Canal has announced the following paper awards, bids for which were opened on August 8.

Alling & Cory will furnish 300 reams (150,000 sheets) of 17x28—No. 13 white bond paper at \$1,200.

Two thousand reams (1,000,000 sheets) of 8x10½—20, mimeograph paper will be furnished by the Old Dominion Paper Company, at \$899.60.

The R. P. Andrews Paper Company will furnish 10,000 plain manila containers, 4¾x10¼, at \$99.

The following paper awards have been made on bids opened August 11.

The R. P. Andrews Paper Company will furnish 10 reams (5,000 sheets) of 22½x28½—110, buff index bristol board at \$291.50.

One hundred reams (50,000 sheets) of 8x10½ white bond paper will be furnished by George W. Millar & Co., at \$70.

Post Office Department Bids.

The Purchasing Officer of the Post Office Department has received the following bids for 250,000, 4¾x10¼ open and manila envelopes; Wolf Brothers, at \$2.50 per 1,000; Oles Company, at \$4.10; United States Envelope Company, at \$3.05, and \$2.95; Sewell-Clapp Company, at \$3.56, and \$4.10; Union Envelope Company, at \$3.55; and Centralia Company, at \$3.93 and \$3.80.

Navy Department Bids.

The Bureau of Supplies and Accounts, Navy Department, has received the following bids for 4,000 heavy corrugated paper boxes, 12x12x25: American Paper Products Company at \$.212 each; Agar Manufacturing Company at \$.145 and \$.190; R. P. Andrews Paper Company at \$.19257, \$.20625 and \$.22707; Hinde and Dausch at \$.239; Septon Manufacturing Company at \$.18975.

PAPER DEMAND BETTER IN HOLYOKE

(Continued from page 18.)

taken under consideration. It is expected that they will be granted the same proportion of increase as the workers.

General News of the Trade

The Taylor-Logan Company, Paper-makers, one of the leading paper-making concerns when it comes to satisfactory relations with its employees, finds that the death beneficiary plan which was arranged by the company's late president, James G. Taylor, just previous to his death, is working out splendidly from all standpoints. It has just made another payment of \$1,600 under its insurance plan.

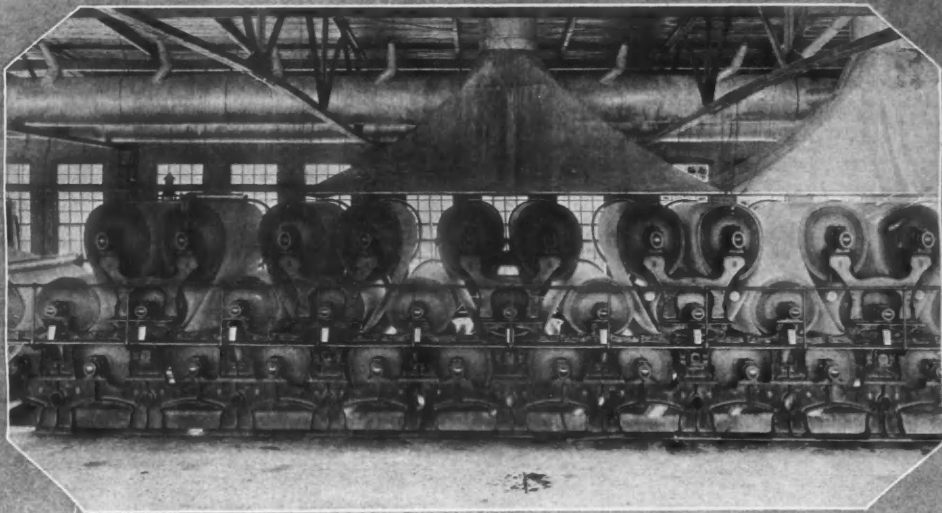
R. Franklin McElwain, vice-president of the Chemical Paper Manufacturing Company and the Crocker McElwain Company, has been elected a member of the board of trustees of the Middlefield Improvement Association, organized in that town for the purpose of beautifying the town and improving the roads.

Although there were no forced shut downs last week because of low water, yet unless J. Pluvius takes a trip up north, the river will again be running low, and it may result in more shut downs for the local manufacturers.

G. C. Kennedy Goes With Dixie Mills

RICHMOND, Va., August 25, 1919.—George C. Kennedy has associated himself with the Dixie Paper Mills, Inc., as general manager. The company is now making a car a day on one machine and expects in the near future to install another machine to make various grades of specialties.

Mr. Kennedy has been in the trade for the past twenty-three years, having started his career with the Glens Falls Paper Company, and when this company was taken into the International Paper Company he spent six years with the latter firm in the manila department. Afterward he went to the New York office of the Chemical Paper Company, where he stayed for six years. He left this position to go with the Warren Manufacturing Company, in charge of the glassine department, where he remained for seven years, building up that business for the concern from a one machine mill to a two-machine mill.



☞ Better cutting edges for every paper mill need. They go a long way toward that wanted increase in production.

☞ And DOWD makes these better cutting edges and makes each one especially for the particular work it is to do.

☞ It's this DOWD experience—plus scientific methods of manufacture that makes Paper Mills specify DOWD products for the most important work.

Roll bars and bed plates of every description. Barker, Chipper, Paper, Rag Knives, etc., etc., have been made for Paper Mills by DOWD of Beloit for more than seventy years.

R. J. Dowd Knife Works
Makers of better cutting knives since 1847
Beloit, Wis.

BUYERS FROM ENGLAND SEEK CANADIAN PAPER AND PULP

Representatives from Australia and New Zealand Also Visit Toronto in Search of Paper, but Local Manufacturers Are Obligated to Turn Down the Business Owing to so Many Domestic Orders—Several Firms in Ontario Contemplate Expansion in Order to Keep Pace with the Demand—Interesting Paper Exhibits at the Canadian National Exhibition—General News of the Trade.

[FROM OUR REGULAR CORRESPONDENT.]

TORONTO, Canada, August 25, 1919.—The chief item of interest in local paper circles during the past week has been the number of English, Australian and New Zealand representatives who have visited Toronto in search of paper and pulp. All the manufacturers have had to turn down the business owing to so many orders being on hand at home. The demand for news print is very active and is continuing to grow as the leading daily papers and other periodicals constantly show large gains in advertising. Returns covering the past six months reveal an advance of from fifteen to thirty-five per cent over the corresponding period of last year. Jobbers report deliveries on many lines rather slow, and the volume of orders still keeps up with the mills.

There are several plants in Ontario which are thinking of extending in order to keep pace with the demand. A better demand prevails for ground wood pulp than there has been for many months past, and deliveries are being delayed on the part of some mills in the Niagara district owing to the strike on the Niagara, St. Catharines and Toronto railway. Inquiries are coming in from the other side, and quotations at the mill are thirty to thirty two dollars. More pulp wood will be taken out in Northern Ontario this year than ever, and the costs of cutting the same will be higher. Wages are fully equal to last year, and the outlay for provision is from ten to fifteen per cent above the level of prices for last season. There is a fair demand for pulp wood at the present time.

Owing to augmenting costs for all kinds of raw materials such as coal, paper stock, rags, felts, etc., the cost of paper is bound to go higher with the advent of the fall months. The Canadian Pulp and Paper Association and the Forest Products Laboratories of Montreal have a very creditable exhibition of paper and pulp of all kinds in the Railways Building at the Canadian National Exhibition now in progress in Toronto. The British Columbia Government has an excellent display in the Government building in which, not only all kinds of western woods are featured, but also pulp and kraft paper. Attention is directed to the facilities which that province presents for expansion in the pulp and paper line. The Interlake Tissue Mills, Merriton, have an artistic showing in white and colored M G tissues, crepe paper table napkins, towels, table cloths, special outing and lunch sets, crepe paper bandages, and many other specialties, while the Kinleith Paper Mills, of St. Catharines, feature all kinds of writing papers and envelopes including their well-known Holland linen.

The annual Press Day was observed at the Exhibition this week, and the visiting newspaper men and publishers to the number of two hundred were the guests of the management.

Will Build Book Mill at Port Arthur

I. H. Weldon, president of the Provincial Paper Mills Company, Toronto, which also controls the Port Arthur Pulp and Paper Company, is on a visit to Port Arthur. The sulphite plant of the company at Port Arthur is very busy, and Mr. Weldon states, if circumstances permit, the erection of a two machine book and writing mill will be proceeded with next spring. It is understood that the plans have already been prepared. J. J. Carrick, ex-M. P., who has

the Pic River and Black Sturgeon pulpwood concessions, is also getting matters under way for the erection of a large pulp and paper mill at Port Arthur.

Mr. Beck Answers Certain Charges

During the past year there were nine daily papers in Canada which went out of business or were merged with others, and it has been alleged by the press that the high price of news print forced the suspension of most of them. Edward Beck, acting secretary of the Canadian Pulp and Paper Association, has written a local journal refuting the charge and pointing out that any newspapers which have failed in Canada, have done so quite apart from the question of the cost of news print. They have suspended because they have been started in too small communities to give them adequate support, or because the centres in which they were issued were already overcrowded. Mr. Beck states that the business of the news print manufacturers depends on keeping the daily newspaper alive and creating more of them, and, if the truth were known, many a struggling daily would have gone under long ago, had it not been for the credit extended to them and the tolerance of the concerns from which they obtain their news print. There have, he added, been fewer newspaper failures in the Dominion during the past ten years than in any other line of comparable commercial business, and "the price of news print had had about as much to do with such failures as has the price of gooseberries."

One paper has gone out of business, however, and that is the *Canadian Official Record*, published at Ottawa, by the Federal Government. It was a weekly, and never served any useful purpose except to print orders-in-council and department items which were fully covered by the daily press. The war being over is given as one reason for its discontinuance, and another is that the cost of production rose from \$350 a week to \$600.

General Notes of the Trade

It is expected that the annual meeting of the Canadian Paper Trade Association will be held in Montreal on September 15, at which the election of officers and other important matters will be attended to. It is the intention of the Association to get out in the near future a booklet setting forth the trade customs of the paper jobbers which will be widely distributed to customers.

Col. J. B. Maclean, head of the Maclean Publishing Company, Toronto, and past president of the Canadian Press Association, is having the sympathy of many extended to him at the present time owing to the death of his only son, Hector Maclean, aged sixteen years, from acute indigestion. The young man, who was a student at Upper Canada College, was holidaying at Cochrane Lake, in Northern Ontario, when attacked.

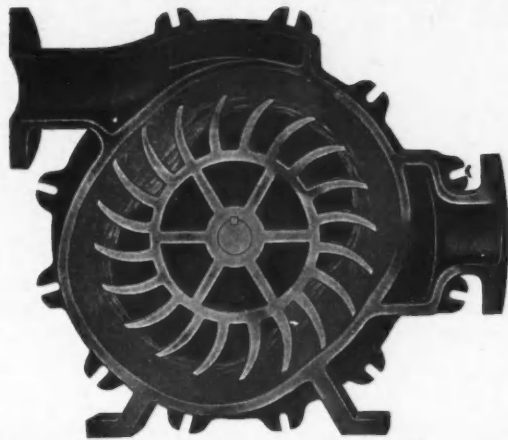
W. E. Wingrove, representing John Dickinson & Co., paper manufacturers, London, Eng., was in Toronto this week on business, and announced that his firm would shortly be in a position to resume business with Canadian customers in the matter of envelope, bond and book papers.

F. P. Nicely, manager of the La Salle Paper Company, South Bend, Ind., accompanied by his wife and young son, has been on a motor tour of Ontario. Capt. Claude Nicely, late assistant sales manager of the Toronto Paper Manufacturing Company, and now with J. M. Dent & Sons, Toronto, is a son.

Stauntons, Limited, manufacturers of wall paper, Toronto, are increasing their facilities by leasing a large building, four stories high, on McAlpine street, for a warehouse. Wall paper manufacturers are exceptionally busy at the present time owing to so many new houses going up in the various cities and towns, while makers of sheathing papers and felt paper for roofing and other purposes have all the business that they can attend to.

A leading Canadian aerial survey firm is not advertising in Toronto papers that it has the necessary equipment and is prepared to enter into contracts to photograph and survey timber, pulp wood

(Continued on page 24.)



The Nash Hydro-Turbine Vacuum Pump and Its Advantages

Only three principal parts. Only one moving part, the rotor. Shaft is mounted on high grade annular ball bearings outside of casing. No valves, pistons, rods, crank shafts, loose vanes or gears. Compression is balanced, eliminating side thrust on the rotor. Note that rotor runs in casing with large clearance.

High Efficiency. Absolute Reliability. Air delivered entirely free from pulsation, and therefore can be measured with a Venturi meter. Air is washed as well as compressed and can contain no oil or other impurities. Can be constructed of Acid-Resisting Metal. Upkeep cost is practically nothing. Expert attendant not required.

For Particulars Address

THOMAS H. SAVERY, Jr.

1614 Republic Bldg.

Chicago, Ill.



100% OR BETTER

In the furtherance of our business we find the need for a strictly point to the pound Kraft Paper. One that is made in colors preferred.

Our reputation for progressiveness and honesty will stand the most rigid investigation.

We invite the correspondence of reliable manufacturers.

FRED C. STRYPE
320 Broadway-New York City
Domestic & Export
WRAPPING PAPER

Use "NATIONAL" Colors For Your Papers

The dyes offered by the National Aniline & Chemical Company cover every special requirement of the paper manufacturer.

Acid Colors

These colors are adapted to a wide variety of uses, and are noted for their fast qualities.

Metanil Yellow 1955
Croceine Orange Y Conc.
Croceine Scarlet M O O
Fast Red S Conc.
Wool Scarlet B R
Alkali Blue 2 G P
Alkali Blue 3 R P
Nigrosines

Basic Colors

Basic Colors combine brightness of shade with good tinctorial power, but are not so impervious to light.

Auramine N A C
Bismark Brown 53
Victoria Green W B
Safranine A
Methyl Violet 2 B
Methylene Blue 2 B
Fuchsine P

National Aniline & Chemical Company

Incorporated

21 Burling Slip, New York

PRODUCTION OF WOOD PULP DURING THE MONTH OF JUNE

Statistics Prepared by the Federal Trade Commission Show That the Mill Stocks of Ground Wood Equal Slightly More Than 42 Days' Average Output—News Grade Sulphite and Bleached Sulphite Mill Stocks Equal Slightly More Than 10 Days' Average Output—Total Mill Stocks of All Grades of Pulp Equal Slightly More Than 23 Days' Output.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., August 26, 1919.—In connection with the Federal Trade Commission's current statistics on the paper industry a summary of the monthly reports required from manufacturers of wood pulp and other kinds of pulp used in paper making is submitted herewith for the month of July, 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 July, 1919, for the operating mills. For comparison purposes the average production and stocks based upon the 9-months' period ended April 30, 1919 are shown.

Kind of Pulp	FINISHED PULP—TONS—AIR DRY BASIS					
	Number of mills	On hand first of month	Production month	Used during month	Shipped during month	On hand end of month
Ground wood pulp	158	200,688	98,759	108,189	6,930	184,328
Average		113,724	59,927	53,220	9,091	135,807
Sulphite, news grade	63	26,133	59,352	22,868	21,170	15,984
Average		16,710	39,780	3,016	2,852	2,091
Sulphite, bleached	30	16,710	6,890	6,430	3,742	1,567
Average		43,312	6,500	6,500	1,573	1,244
Sulphite, easy bleaching	8	2,479	13,884	10,005	4,790	6,941
Average		5,480	12,298	12,298	3,149	3,149
Sulphite, Mitscherlich	7	994	32,049	18,385	14,885	7,757
Average		844	30,004	844	65	378
Sulphate pulp	22	7,852	884	547	65	152
Average		146	884	884	884	884
Soda pulp	29	8,978	260,685	219,972	62,221	242,272
Average		30,004	260,685	219,972	62,221	242,272
Other than wood pulp	6	146	884	547	65	378
Average		146	884	547	65	378
Total for all grades		263,980	260,685	219,972	62,221	242,272
Average		269,412	269,412	269,412	173,868	173,868

Note.—A slight variation will be noted between the monthly reports of June and July 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 July 31 amounted to 242,272 tons. Stocks of other than wood pulp and Mitscherlich sulphite increased slightly during the month. There was an increase during the month in the stocks of all other grades.

Comparing the stocks on hand at the domestic pulp mills at the end of the month with their average daily production based on the 9-months' period ended April 30, 1919, the figures show that:

Ground wood mill stocks equal slightly more than 42 days' average output.

News grade sulphite mill stocks equal slightly more than 10 days' average output.

Bleached sulphite mill stocks equal slightly more than 10 days' average output.

Easy bleaching sulphite mill stocks equal slightly less than 8 days' average output.

Mitscherlich sulphite mill stocks equal slightly less than 5 days' average output.

Sulphate Mill stocks equal slightly less than 15 days' average output.

Soda pulp mill stocks equal slightly less than 7 days' average output.

Mill stocks of "other than wood pulp" equal slightly more than 11 days' average output.

Total mill stocks of all grades equal slightly more than 23 days' average output.

Loss of Production

The number of grinders and digesters showing lost time during the month of July in operating mills was 1,483. These figures do not include the machines in eight mills that were not in operation during July chiefly on account of lack of orders, repairs and lack of power.

Grade	Lack of labor	Lack of orders	Repairs	Other reasons	Total (July)	Total (June)
Ground Wood—						
Number of grinders.....	12	7	391	630	1,040	914
Total hours idle.....	2,575	3,504	75,396	173,333*	254,802	165,866
Sulphite, News Grade—						
Number of digesters....	0	0	78	75	153	136
Total hours idle.....	0	0	8,660	7,103	15,763	14,781
Sulphite, Bleached—						
Number of digesters....	0	0	34	57	91	59
Total hours idle.....	0	0	3,488	3,514	7,002	4,358
Sulphite, Easy Bleaching—						
Number of digesters....	0	0	0	3	3	7
Total hours idle.....	0	0	0	436	436	395
Sulphite, Mitscherlich—						
Number of digesters....	0	0	7	0	7	26
Total hours idle.....	0	0	1,977	0	1,977	5,118
Sulphate Pulp—						
Number of digesters....	5	4	4	25	38	23
Total hours idle.....	1,440	1,152	336	5,462	8,390	4,928
Soda Pulp—						
Number of digesters....	9	8	30	92	139	88
Total hours idle.....	2,879	675	2,983	3,829	10,366	9,509
Other Than Wood Pulp—						
Number of digesters....	0	6	2	4	12	14
Total hours idle.....	0	2,514	306	96	2,916	3,406
Total number of grinders and digesters, July.....	26	25	546	886	1,483	....
Total hours idle for all grinders and digesters, July..	6,894	7,845	93,146	193,773	301,658	....
Total number of grinders and digesters, June.....	38	52	460	717	....	1,267
Total hours idle for all grinders and digesters, June..	8,680	12,073	60,479	127,129	....	208,361

* Includes 151,523 hours due to low water and other water conditions.

SEEK CANADIAN PAPER AND PULP

(Continued from page 22.)

and water areas by aeroplane and also to detect and report on forest fires. The company also states that it is prepared to distribute political circulars, private advertising, etc.

The Fibre Packing Company of Canada, with a capital stock of \$100,000 and headquarters in Walkerville, Ont., has been granted a provincial charter to manufacture and deal in fibres, fibre board and fibre containers of all kinds.

Notice has been sent out by the box board manufacturers that, owing to increase in wages which amount to over ten per cent and to the advance in the cost of raw materials, it has been necessary to raise the price of plain strawboard and plain chipboard to \$70 per ton, vat lined chipboard to \$75; filled woodboard to \$78; lining with white news, 80 cents per hundred sheets of 1,200 square inches, lining with book paper, \$2.25, and lining with glazed paper, \$2.25. Other lines of board are also expected to take a jump of about ten per cent in the near future.

Atlas Paper Co. Opens in Memphis

MEMPHIS, Tenn., August 25, 1919.—The Atlas Paper and Bag Company, recently organized with Mayer B. Meyers as president, has opened offices at 78 Washington avenue. Harry Rosenson is the vice-president and I. L. Meyers secretary. The men formerly were in the Memphis Paper Company.

Papers that draw Trade!

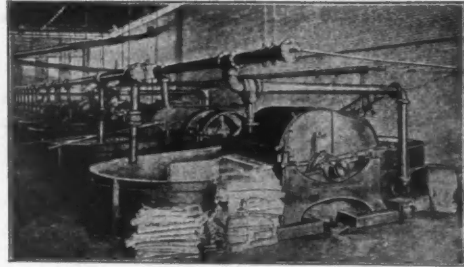
ROUGHLY speaking, the best board carton protects the contents, but it does not preserve the finer distinguishing aroma or flavor or moistness of the food from the time it leaves the baker until dispensed in the home, unless sealed in waxed paper. The success of the food is built on its quality. Why not insure its success

Send for samples of self-sealing waxed paper—and while you are writing, permit us to mail you test sheets of KVP Vegetable Parchment—the paper that is "Better wet than dry."

KALAMAZOO VEGETABLE PARCHMENT COMPANY
Kalamazoo, Michigan

"World's Model Paper Mill"

Makers of bond and waxed paper and vegetable parchment



The Illustration Shows a Typical Dilts Equipment in the Beater Room of One of the Largest Boxboard Mills in the United States

WE ALSO MAKE A SPECIALTY OF Fly Bars, Bed Plates and Machine Knives

Owning and operating as a separate department of our business the Knife Works formerly Taylor Brothers & Co., makers of MACHINE KNIVES at Fulton, N. Y., for over fifty years.

Dilts Machine Works, Inc.
Fulton, N. Y., U. S. A.

"AMERICAN" TWINES



Paper Makers' Twine

Tube Rope

Wall Paper Twine

Hay Rope

Fine and Coarse Polished Twines

Manila Rope

Transmission Rope



For Prices Write Department M

American Manufacturing Company

Largest Makers of Commercial Twines and Rope in the World

Mills and Sales Office:

NOBLE AND WEST STREETS,

BROOKLYN, NEW YORK CITY

PRICES REPORTED STEADIER IN PHILADELPHIA MARKET

**Mills Are at Last Able to Give Prices on Future Business—
For the First Time This Summer All Grades in the Paper
Stock Market Are Moving with Considerable Speed—A.
Hartung Company Opens Quarters at 318 Broadway—
Auer & Twitchell Open Gum Tape Department—Ward
Party Returns from Enjoyable Visit to Paper Mills—
General and Personal News.**

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, August 23, 1919.—During the week, for the first time this summer, there came about a stability of prices and of orders indicative that the trade is now settling down to a real and permanent basis. There is no tonnage in the market, but the mills are at last able to give a price for future business if it is not too far in advance. There is a feeling in the trade, too, that while there may be fluctuations in prices there will no longer be overnight jumps. It is true, however, that the possibility of a rise is much greater than of a decline.

The jobbers here are in a most confident state of mind. It is based not only on their observation of commercial conditions in the territory tributary to Philadelphia, involving the certainty of much demand for paper, but as well upon the wonderful export possibilities which are opening. From time to time there has been told in this column the expansion of local houses anticipating export trade. This has been supplemented by narration of the physical expansion in building and equipment of many other houses not necessarily entering upon the foreign trade opportunities at this time, but preparing themselves for growth of business either at home or abroad. Looking to the foreign fields in Europe and particularly in South America are the D. L. Ward Company, A. Hartung Company, Philadelphia Manufacturers' Company, the Paper House of Pennsylvania, the Whiting-Patterson Company, J. L. N. Smythe, Matthias & Freeman, and Dill & Collins Company. Increased space is being taken among others by Simon Walter, the Saxe Paper Company, the Lowe Paper Company, Wilder Brothers, Samuel Kardon, Morris Kardon and Harris Kardon.

Paper Stock Active

For the first time this summer, too, all grades in the paper stock market are moving with considerable speed. Of course, the drain on the Philadelphia market because of the New York strike accounts in part for the boom, but back of it and far more important are the mill demands which are being received with every mail. The rag market is generally active, although imports are beginning to come in and these will eventually have some effect on market conditions. But the rag stock dealers like the paper are preparing for a long period of great activity, with high prices prevailing and with scarcely no possibility for a slump.

A. H. Hartung Co. Expands

Announcement is made by the A. Hartung Company that it has taken over quarters at 318 Broadway, New York, as a branch office to take care of business in New England, the Western states, and New York, state and city. The office will be in charge of Robert C. Miles, who proposes to give particular attention to the box makers' demands. All shipments, however, will be made by the warehouses here. Preparatory to this the company has just secured the properties 24 and 26 South Marshall street for warehouse purposes. These buildings were the old home of the company which were given up at the time it removed to its present location, 506-512 Race street, but now have been released. When the stock is installed on South Marshall street early next month, the firm proposes to make the Fifth and Race streets quarters the

most modern and up-to-date sales offices in the city. The interior will be remodeled so that customers will find awaiting their comfort an inviting reception room. Samples of papers for bookbinders, publishers, dealers and others will be displayed in a most comprehensive and effective layout.

Open Gum Tape Department

The Auer & Twitchell Company, Drexel Building, has just opened a gum tape manufacturing department in one of the two wings added to the mills at Beverly, N. J. Several machines have been installed for the manufacture of all sizes and styles of kraft gums. In the additional room given by the two wings, both of which are on the western end of the mill, there will be stored stock, coal and other bulky articles. Railroad sidings from the Pennsylvania line have been run into the mills so that carload lot shipments can be made with despatch. President J. F. Auer, who has been touring through the western states and as far as San Francisco, is expected back at his desk early in September.

The mill at Swarthmore, Pa., in which Mr. Auer formerly was interested financially when it was conducted as the Philadelphia Wax Paper Company, has been taken over by the Paper Products Company, which recently was incorporated at Harrisburg. The officers of the company are President W. S. Sprague, Vice-President C. E. Stegmaier, Treasurer T. P. Stegmaier, and Secretary J. D. Jenkins. Machinery has been installed for the manufacture of crepe paper, napkins, wax paper specialties, etc. The plant will have a capacity of about 6 tons a day.

Ward Party Has Pleasant Trip

The Ward family party of thirty-five, comprising almost a third of the organization, who left the city on Monday of last week for a trip through the mills of the B. D. Rising Company at Great Barrington, Mass., of the L. L. Brown Company at North Adams and the Crane Mills, are actually jubilant not only over the reception given, but quite as much over the instruction received. The round of social entertainment included dinner on Monday at the Berkshire Inn after a visit to the Rising Mills, where the process of making rag paper bond was studied; a motor trip to Pittsfield with dinner at Maplewood Inn; then a visit to the Crane mill at Dalton, luncheon there, and finally a tour to North Adams, a visit to the Brown Mill, dinner at Albany, and then a trip down the Hudson by boat into New York and by train back home. A smaller but not less enthusiastic party was taken out by Thomas J. Curry, sales manager. There were six members—Richard Conradi, Augustus Clark, Edward Vaughn, and William and John Nunan, and Asher Humes. They visited the Warren Mills and were entertained at dinner by the Warren Mills Club.

Not Interested in Box Board Venture

Denial is made by Harry Rose, of A. Rose & Son, of the truth of a report circulated in the trade that he is interested in a new boxboard venture in association with A. Neuman, of the West Philadelphia Iron and Metal Company and Chester Simmons, formerly with the Philadelphia Paper Manufacturing Company. Mr. Rose has interests which he says have been affected by the unfounded report.

General Trade News

Bids have been invited by the District Salvage Board Office, 1710 Market street, for the purchase of 10,000,000 felt and cardboard discs from 5½ to 9½ inches in diameter, which the Government believes may be utilized by a paper novelty or Xmas novelty manufacturer.

Application is to be made September 16 for a charter for the Frank M. Sayford Company, the object of which is the manufacture and sale of paper doilies, paper mats for boxes, lace paper strips, crimp paper and specialties. The incorporators are Frank M. Sayford, H. B. Sayford, and Frank Semple, Jr.

(Continued on page 34.)

M. GOTTESMAN & COMPANY

Incorporated

18 East 41st Street, New York

Bleached and Unbleached WOOD PULP

of Every Description

SOLE SELLING AGENTS FOR THE UNITED STATES

FOR

- Ekman & Company.....Gothenburg, Sweden
Bleached and Unbleached Chemical Pulps
- Bengtsfors SulfitaktiebolagBengtsfors
High Grade Bleached Sulphite
- Eds Cellulosafabriks AktiebolagHelgenas
Easy Bleaching and Strong Sulphate (Kraft)
- Forsmarks Cellulosafabrik.....Johannisfors, Forsmark
Easy Bleaching and Strong Sulphate (Kraft)
- Hellefors Bruks Aktiebolag.....Hellefors
Strong Kraft and Easy Bleaching Sulphite
- Frederiksberg Sulphate Mills.....Frederiksberg
Strong Sulphate (Kraft)
- Laxa Sulphite Mill.....Laxa
High Grade Easy Bleaching Sulphite
- Gustafsfors Fabriks Aktiebolag.....Gustafsfors
Easy Bleaching and Strong Sulphate (Kraft)
- Hjerpen Sulphite Mills.....Jarpen
Mitscherlich Strong Unbleached Sulphite
- Holmens Bruks Och Fabriks Aktiebolag.....Norrkoping
Strong Unbleached Sulphite
- Wermbohls Fabriks Aktiebolag.....Katrineholm
Strong and Easy Bleaching Sulphate (Kraft)
- Konga AktiebolagKonga
Prime Bleached Sulphite
- Nyhamns Cellulosa Aktiebolag.....Sundsvall
Easy Bleaching and Strong Unbleached Sulphite
- Ohrvikens AktiebolagSkelleftea
Strong Unbleached Sulphite
- Stromsnas Bruks Aktiebolag.....Stromsnasbruk
Easy Bleaching and Strong Sulphate (Kraft)

THE ABOVE MILLS HAVE A TOTAL PRODUCTION
IN EXCESS OF 200,000 TONS ANNUALLY.

PRODUCTION AND SHIPMENTS OF NEWS PRINT SINCE JANUARY

Tabulation Prepared by the Federal Trade Commission Shows Figures for the Month of July, 1919, as Well as the Tonnage of the Preceding Months of 1919 Compared with the Corresponding Months of 1918—The Imports of News Print Were 324 Tons Greater Than for June, 1918—Average Price of Standard News in Rolls for the Month of July Was \$3.646 Per 100 Pounds.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., August 25, 1919.—The following is a review by the Federal Trade Commission of the reports received from domestic manufacturers of news print paper, from jobbers buying and selling news print paper and from leading publishers using news print paper. Import and export figures of the Department of Commerce are also included in the review. Whenever possible the figures for 1919 are compared with those for the corresponding period of 1918.

The figures which follow not only show the results of the Commission's tabulation of the reports for July, 1919, compared with July, 1918, but also give the tonnage of the preceding period of 1919, compared with the corresponding period of 1918, and the total production and shipments for all of the months tabulated.

Grade	Number of mills	Stock on hand 1st of month	Production Net tons	Shipments Net tons	Stock on hand end of month
Total Print—					
First half 1919.....	74	19,408	671,141	664,434	26,115
First half 1918.....	66	31,713	634,854	640,406	26,161
July, 1919.....	76	26,115	113,929	111,819	28,225
July, 1918.....	67	26,161	108,523	109,772	24,912
Total, 1919.....	76	19,408	785,070	776,253	28,225
Total, 1918.....	67	31,713	743,377	750,178	24,912
Standard News—					
First half 1919.....	53	15,656	609,325	604,958	20,023
First half 1918.....	50	26,482	570,138	576,808	19,812
July, 1919.....	54	20,023	101,850	98,548	23,325
July, 1918.....	50	19,812	98,223	99,400	18,635
Total, 1919.....	54	15,656	711,175	703,506	23,325
Total, 1918.....	50	26,482	668,361	676,208	18,635

Note.—Above figures for total print do not include hanging paper but include the print paper production of mills operating for the most part on some other grade. All figures prior to March, 1919, have been prorated from a weekly basis to a calendar month basis and the figures for 1918 adjusted in conformity with the annual report.

The average production based upon the weekly and monthly reports for the 12 months' period ended March 31, 1919, amounted to 109,876 tons of total print and 99,632 tons of standard news, whereas the actual production amounted to 113,929 tons of total print and 101,850 tons of standard news.

Mill stocks of both standard news and total print increased slightly during July, 1919.

In addition to the stocks given above 1,372 tons were reported on hand at terminal and delivery points on July 31, 1919.

Loss of Production.

Reports from 76 mills operating 182 machines running full or partial time on news print paper showed the following loss of time during the month of July, 1919:

Reasons	Number of Mills	Number of Machines	Hours Idle
Lack of labor.....	2	3	1,301
Repairs.....	13	18	1,753
Other reasons.....	13	20	691

Under "Other Reasons" three machines were reported idle 255 hours on account of low water and 12 machines were reported idle 292 hours on account of extra time taken for holiday after July 4th.

The total time the machines were idle increased from 2,971

hours in June to 3,745 hours in July. No lost time due to lack of orders was reported.

Imports and Exports.

The imports and exports of printing paper valued at not above 5 cents per pound (practically all news print) and of wood pulp for the month of June, 1919, as compared with the month of June, 1918, were as follows:

	June, 1919 Net tons	June, 1918 Net tons
Imports of News Print (total).....	52,619	52,295
From Canada.....	52,619	51,707
Exports of News Print (total).....	9,552	11,601
To Argentina.....	2,549	3,147
To Brazil.....	496	934
To United Kingdom.....	438	293
To Australia.....	224	1,469
To other countries.....	5,845	6,008
Imports of Ground Wood Pulp (total).....	15,372	15,014
Imports of Chemical Wood Pulp (total).....	24,350	44,262
Unbleached Sulphite.....	10,512	29,403
Bleached Sulphite.....	2,943	1,973
Unbleached Sulphate.....	10,224	12,886
Bleached Sulphate.....	671	.....
Exports of Domestic Wood Pulp.....	4,572	3,841

The imports of news print for June, 1919, which were all from Canada were 324 tons greater than for June, 1918. The exports for June, 1919, were 2,049 tons less than for June, 1918.

The tonnage to "other countries" under the "Exports of News Print for June, 1919," includes 2,813 tons to France, 238 tons to China, 506 tons to Uruguay, 141 tons to Japan, and 110 tons to Mexico.

The imports of mechanically ground wood pulp for June, 1919, were 558 tons greater than for June, 1918. The exports of domestic wood pulp were 731 tons greater than for June, 1918.

The imports of chemical wood pulp for June, 1919, were 19,912 tons less than the imports for June, 1918. The bulk of this tonnage was unbleached sulphite and sulphate from Canada.

Jobbers' Tonnage.

The following tabulation shows the news print tonnage reported by sales agents and jobbers during the month of July, 1919, compared with July, 1918, together with commitments to buy and to sell:

	On hand first of month	Received during month	Shipped during month	On hand end of month	Commitments to buy	Commitments to sell
Rolls—						
July, 1919.....	3,360	3,530	3,603	3,287	42,174	49,576
July, 1918.....	3,396	2,436	2,789	3,043	37,472	36,668
Sheets—						
July, 1919.....	6,132	2,726	3,118	5,740	4,384	3,395
July, 1918.....	6,532	3,417	2,817	7,132	6,756	5,384
Total News Print—						
July, 1919.....	9,492	6,256	6,721	9,027	46,558	52,971
July, 1918.....	9,928	5,853	5,606	10,175	44,228	42,052

Stocks of rolls increased slightly during the month of July, 1919. Stocks of sheets decreased.

Commitments reported in the month of July, 1919, to sell roll news were 7,002 tons greater than commitments to buy.

Commitments reported in the month of July, 1919, to sell sheet news were 989 tons less than commitments to buy.

Publishers Tonnage

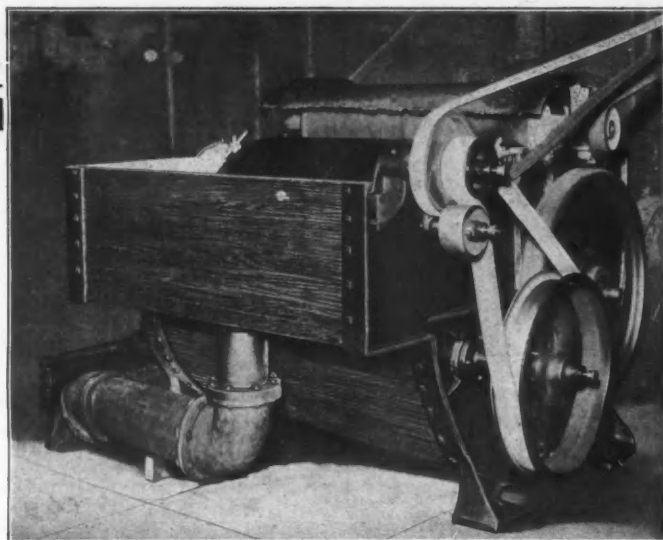
Monthly tonnage reports covering 748 (1) of the most important newspaper publishing concerns and associations grouped according to the principal business sections of the United States, together with a separate tabulation for the agricultural publications show the following results for July, 1919:

Location of Publishers (2)	Number of publishers	On hand first of month	Received during month	Used and sold during month	On hand end of month	In transit end of month
		Net tons	Net tons	Net tons	Net tons	Net tons
New England.....	86	15,949	13,363	13,436	15,876	3,045
Eastern States.....	209	36,258	51,313	49,985	37,586	11,191
Northern States.....	148	42,574	29,019	32,848	38,745	10,591
Southern States.....	85	10,954	7,567	8,876	9,645	5,025
Middle West.....	159	29,388	21,284	21,923	28,749	8,072
Pacific Coast.....	33	8,594	9,608	10,275	7,927	1,529
Farm Papers.....	28	7,901	1,399	1,368	7,932	294
Total—U. S.	748	151,618	133,553	138,711	146,460	39,747

(1) This number represents a much larger number of publications.

(2) New England includes Connecticut, New Hampshire, Maine, Massa-

(Continued on page 58.)



The Bird Save-All is a Many Purpose Machine

Considered only as a fibre saving device it pays for itself in a few months' time. Yet it pays in other ways some of which are perhaps more important than fibre saving. For instance:

1. It detects leaks on cylinder machines.
2. It reduces the amount of suspended matter in waste water so that your pollution problem is partly solved.
3. It is an excellent water filter for the fresh water supply, cheap to install and cheap to run.

Constructed simply, without parts which need continual adjustment a Bird Save-All will last indefinitely. It is so thoroughly automatic that it needs almost no attention and thus does not incur a charge for direct labor.

It occupies very little space and can be located anywhere in an odd corner of the mill which might otherwise be useless.

Compared with other save-alls, its price is low yet as the stock recovered is nearly all gain, the profit earned is greater.

The Bird Save-All is a necessary adjunct to most paper machines.

Catalog 2A free on request.

BIRD MACHINE CO., East Walpole, Mass.

Western Representative: T. H. Savery, Jr., 1630 Republic Bldg., Chicago, Ill.

THE BIRD SAVE-ALL

TRADE ON PACIFIC COAST IS REPORTED VERY ACTIVE

Prices of All Varieties of Paper Remain High and Paper Men Are Not Expecting Any Reductions—All the Mills Are Running Full—Export Situation Is Unsatisfactory as the Freight Situation Is Against the Exporter—After a Short Period of Activity Japan Has Quit Buying Extensively on Account of High Prices—Zellerbach Paper Co. Gets New Branch—General News of the Trade.

[FROM OUR REGULAR CORRESPONDENT.]

SAN FRANCISCO, August, 21, 1919.—Manufacturers of practically all kinds of paper report large demands for their product, which recently reached its highest point for the year. Products for which the heaviest demand is noted are wrapping paper, writing paper, paper bags, paper board, fine paper and book paper. Prices of practically all grades of paper remain high, and paper men are not expecting any reductions. With productions costs practically at their high point, lower prices for the finished products cannot be made as long as wages and materials remain up.

All of the paper mills on the Pacific Coast are running full and getting good prices for their products. A substantial advance was made in news print about a month ago, since when prices have remained stationary. There have been several advances in wrappings. The big demand and high cost of labor and materials account for the increase.

The great domestic demand for news print has resulted in the coast mills shipping their surplus news to the Eastern States, which was unheard of until recently. Mills in British Columbia have been shipping to the Canadian market for some time.

After the revival of buying during July, with the market advancing, the needs of the San Francisco trade have been satisfied to a considerable extent, and there is not quite so much stocking up. The printing business is fairly active, and the wholesale dealers are unable to accumulate large stocks after taking care of the printers' demands for the grades of paper needed.

Export Situation Not So Satisfactory

The export situation is unsatisfactory, as far as the San Francisco exporter who ships from Pacific Coast is concerned. The freight situation is against the exporter. The Eastern exporter has a short rail haul from the mills and a long water haul at comparatively low rates. Shipping Board rates from Pacific Coast ports to the Orient have been advanced from \$14 to \$18 a ton on paper, while the freight on mail steamers has been increased to \$20.

After a short period of increased activity, Japan has quit buying extensively, on account of high prices. According to one of the exporters, a good export business on news could have been done with the Japanese if the mills had not advanced prices to a point that discouraged trade.

Harold L. Zellerbach, manager of the export department of the Zellerbach Paper Company, states that, although the volume of new business being taken on is comparatively light at present, the management is going right ahead with plans for expansion of trade with its own sales force. H. F. Baruh left here on the last steamer for Japan, and will remain in the Orient for some time, and he will be followed by other representatives of the company. It is expected that M. L. Dinkelspiel and Secretary M. M. Cohn will leave for the Orient next month. After looking over the field in Japan, the representatives will go on to China and other Oriental countries and make a thorough investigation of conditions. An Oriental office will be opened in one of the principal cities, where the salesmen will make their headquarters. Shipments are being made to Japan on old orders, consisting largely of newsprint, and the house will be in a position to take care of the future de-

mand when conditions are right. Paper, paper products, pulps and envelopes are among the goods now being exported to the Orient, and a start is being made on paper towels.

John T. Gilmartin, of Reid & Gilmartin, representing the American Pad and Paper Company, and the Gresham Blank Book Company, New York, has returned from Bartlett Springs. His firm has an excellent demand for its lines. The firm has been doing quite a little export business in China and the Philippines, on the converted goods of the American Pad and Paper Company, and there has been some demand from Russia.

A. H. Dougall, general manager of the Paper Boxboard Company, who is now in Utah, will return shortly from a coast trip in the interest of the lines handled. An excellent demand is reported, and the boxboard mills of the Pacific Coast, which sell their products through this concern, are running full. There is a fair export trade, which promises to grow, and there are good Australian inquiries.

Crown Willamette Paper Busy

All of the mills of the Crown Willamette Paper Company are running full, although labor is scarce. The demand for news is strong and the plant at West Linn, Ore., is specializing on newsprint. With big fruit crips throughout the coast there is a good demand for fruit paper and the mills at Floriston, Cal., and Camas, Wash., are turning out good quantities. News and wrappings, also, are being produced on a good scale at the latter point. Although the low-water period in the Willamette River is expected to continue until November, the company expects to have enough ground wood pulp to supply its needs.

Excellent results have been obtained at West Linn, during the past year, with the "equalizer," an invention of Thomas Warner, an old employee of the company. This device, of comparatively simple construction, keeps the paper stock at a consistency which equalizes the sheet. By preventing variations in the weight of the sheet, it stabilizes production. A paddle controls the proposition of water to pulp. It is now in use at the principal mills on the coast. At one mill the device has kept the proportion of sulphite and wood pulp runs within one per cent, which was impossible before putting in the equalizer.

Zellerbach Paper Co. Gets New Branch

The Zellerbach Paper Company finds business very active at the San Francisco headquarters, as well as at the various branches throughout the Pacific Coast territory. Stocks are being kept up as well as present manufacturing and shipping conditions will permit. The management is optimistic as to conditions, and expect to continue to do a heavy business. M. R. Higgins, vice-president of the company, has returned from Spokane, Wash., where he took over the Kumm-Unger Paper Company, which will be the eleventh branch of the Zellerbach Paper Company. The new branch will have the use of the great facilities of this big concern, and, in time of need, can draw upon the stocks of the other branches. R. H. Kumm remains as manager of the branch, and R. L. Unger is assistant manager. Mr. Higgins visited the Seattle branch, where Douglas Ball, the manager, has a very complete line and a heavy trade, and the Portland branch, where Manager W. D. McWaters is doing a big business.

Eaton, Crane & Pike Co. Reports Actual Demand

W. J. Willoughby, Pacific Coast manager of Eaton, Crane & Pike, has returned from a visit to the Eastern mills, where he found everything rushing. H. G. Roehm was in charge of the San Francisco office during his absence. Very heavy stocks are being carried here, which assures deliveries in the ten States handled from San Francisco. Business has showed a steady growth this year, and the mills have taken good care of this section. The coast salesmen have just completed their trips with the holiday line and have taken all the business they can handle. They are getting ready to go out again on their staple and semi-novelty

(Continued on page 32.)



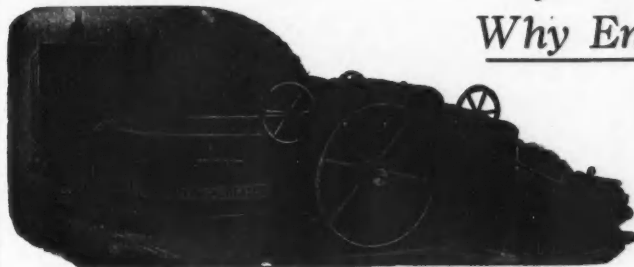
The West Virginia Pulp & Paper Co., Mechanicville, N. Y., having six machines are now 100% equipped with the FEENEY AUTOMATIC STUFF BOX, as here illustrated, shipments to them being as follows:

1.....Nov. 27, 1914	1.....Feb. 29, 1916
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

BAKER MANUFACTURING CORPORATION
Formerly BAKER & SHEVLIN COMPANY
SARATOGA SPRINGS, N. Y.

Fourdrinier and Cylinder Paper Machines



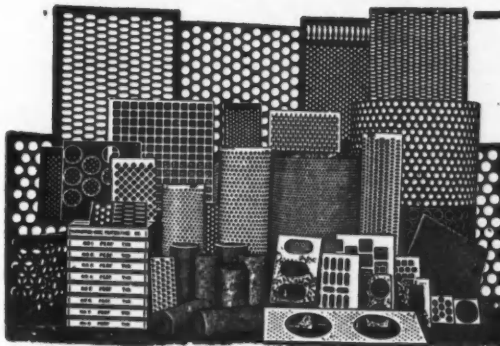
Why Enlarge Your Beater Room?

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

All infringements on present patents and patents to be issued will be vigorously prosecuted

MILLS MACHINE COMPANY . . . Lawrence, Mass., U. S. A.
Builders of all kinds of paper mill machinery



PERFORATED METALS

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

FOR

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.

618 NORTH UNION AVE., CHICAGO, ILL.

114 LIBERTY ST., NEW YORK, N. Y.

TRADE ON THE PACIFIC COAST IS REPORTED VERY ACTIVE

(Continued from page 30.)

lines for fall delivery. The factory has been practically sold out on holiday goods for some time, but the San Francisco office has taken care of all of its customers.

A Unique House Organ

The Zellerbach Paper Company has, for the past year, been publishing the *Informant*, a small monthly magazine which is different from the ordinary house organ. It is sent to all the printing firms on the Pacific Coast. Instead of being filled up with self-laudatory matter, it deals with practices and principles pertaining to the printing trade. It contains articles also on engraving, electrotyping and allied trades. It is educational, containing matter on cover designs, composition, color and paper and its uses; also practical talks to the printing salesman. It tells him how to create business by suggesting additional use of printing, such as envelope "stuffers," to put in with bills sent out and by suggesting direct mail advertising. The magazine sets an example in paper, typography, cover designs, etc. The dress and the paper used are changed from month to month.

National Paper Products Co. Busy

M. R. Higgins, president of the National Paper Products Company, reports a heavy demand for the lines turned out by the various plants and everything running full blast. He considers the outlook bright for business in paper and paper products. The National Paper Products Company's mill and converting plant in Stockton are very busy with orders ahead. The company is erecting a new factory building, 80x300 feet, adjoining its own converting plant, of the same size. It will be leased to the American Carton Company, of San Francisco, which does a large business in cartons for dried fruits and other goods. The demand for the National Paper Products Company's solid fiber cases exceeds expectations.

The paper towel business is booming, and the National Paper Products Company's facilities at Carthage, N. Y., have been increased by installing four additional towel machines. Four paper machines are operated there in addition to the converting plant. Additional buildings, with a total floor space of 40,000 square feet are being erected at Carthage. Towel manufacturing facilities are also being increased at the San Francisco factory.

The San Francisco Division of the National Paper Products Company is doing a heavy business under the superintendence of W. I. Brobeck. There are many rush orders, and no signs of any letting up in the demand for fiber cases, corrugated cases, paper cans and the specialty lines in paper products. The factory equipment is gradually being increased and more attention is being paid to automatic machinery in order to keep manufacturing costs from mounting too high. An additional paper towel machine has been installed.

San Francisco Personals

William Henry, president of the Pacific States Paper Trade Association, was in the city yesterday, on his way to Los Angeles. He is connected with the Pioneer Paper Company, of Los Angeles, manufacturers of tissue products, roofing and building papers, etc.

I. Zellerbach, president of the Zellerbach Paper Company, has returned from a motoring trip to Monterey and Southern California, accompanied by his family.

James R. Davis, an employee of twenty years' standing, has been made manager of the Fine Paper Department of the Zellerbach Paper Company, succeeding Frank C. Stratford, who will assume an executive position on his return from his vacation on September 1. Milton L. Colton will be assistant manager.

W. P. Johnson, president of the Crown Willamette Paper Company, is paying a visit to the large paper plant of the Pacific Mills, Ltd., located at Ocean Falls, B. C. It is understood that the mills

are running full and have been making shipments of newsprint to the Eastern States, as well as to Pacific Coast and Canadian points. A high grade of kraft paper is being produced and readily disposed of.

L. A. Colton, purchasing agent of the Zellerbach Paper Company who recently left for the East, will attend the Hammermill Paper Company's annual convention at Erie, Pa. He will pay a visit to the Zellerbach Paper Company's eastern office at 41 Park Row, New York, and will get in touch with the situation on manufacturing and supplies. S. Friedenberg, who has returned from the navy, is filling Mr. Colton's place temporarily.

A. Van der Zwerpp, the headquarters manager of the Zellerbach Paper Company, is paying a visit to Spokane, to install the company's bookkeeping system in the new branch there.

F. B. Wight, one of the executive heads of the Crown Willamette Paper Company, has returned from a vacation, which he spent in the Yosemite and Hetch Hetchy valleys.

To Discuss National Forest Policy

SYRACUSE, N. Y., August 25, 1919.—Col. Henry S. Graves, Chief of the United States Forest Service, will come to New York state to discuss with all interested organizations his proposed national forest policy. This conference may develop into the most important gathering ever held, involving the future of the nation's forests and timber supply.

Announcement of this conference was made by a special committee of the New York State Forestry Association, when preliminary steps were taken to prepare for Col. Graves' visit to Syracuse the second week in November. The conference will be attended by representatives of the Empire State Forest Products Association, the State Conservation Commission and the New York State Forestry Association, and invitations to attend will also be sent to representatives of the American Pulp and Paper Association, the Association for the Protection of the Adirondacks, the state retail lumber dealers and all other organizations interested in the forests of the state.

The conference is the result of the realization that the private forests of America are nearly exhausted and that now is the time when the nation and the state must establish principles of production of a timber crop on private land. The growing realization of this need was brought to a focus by the war census of the timber of the nation, to learn exactly where America stood on timber for war purposes. This showed that radical steps must be taken at once to prepare for the future, and Col. Graves at once began the formulation of a national policy. Col. Graves is now ready to come to this state and discuss the economic phases of the problem with all the elements in the state interested in forestry.

The date for the conference has not been definitely set, but will probably be either November 11 or 13, so that some of the organizations interested can hold their conventions in connection with the Graves conference. The program will be without many set addresses, leaving the time practically free for Col. Graves' address and discussions. Other addresses will be merely to bring out special points for discussion.

Last week's conference was attended by Ralph S. Hosmer, in charge of forestry, New York State College of Agriculture at Cornell University; Secretary J. R. Simmons, of the New York State Forestry Association; Secretary Warwick S. Carpenter, of the State Conservation Commission; Dean Hugh P. Baker, of the New York State College of Forestry at Syracuse; Bristow Adams, Chief of Publications of the New York State College of Agriculture, and Warren B. Bulluck, Director of Forest Extension, New York State College of Forestry.



NOTE the CORE

No part of the center fabric is perpendicular to the travel of this Deckle Strap. This eliminates excess strain at any one point.

It ensures maximum flexibility and perfect running parts. The four-sided construction means less expense, and trouble of grinding as in the old two-sided strap.

Into the Goodrich Deckle Strap go many years of painstaking effort and experience to produce the best of its kind. The same with Hose, Belting, Valves, Packings, Screen Diaphragms, Liner Strips, etc.

When you want Rubber that is long-ageing, and does its work without fear of breakdowns, say Goodrich.

THE B. F. GOODRICH RUBBER COMPANY
The City of Goodrich—AKRON, OHIO

Goodrich De Luxe Truck Tires with their high crown of tough rubber, minimize costly vibration in trucks hauling your finished products.

GOODRICH
RUBBER GOODS *for the*
PAPER MILL INDUSTRY



Obituary

C. G. Morrison

MALONE, N. Y., August 22, 1919.—C. G. Morrison, who had been critically ill here for about two weeks, passed away last night, aged 50 years. Previous to coming here Mr. Morrison had been employed as superintendent in a paper mill at Carthage, but his health was greatly impaired when he and his wife recently came to Malone. He was a member in good standing of the Johnsonburgh Lodge of Elks, and when he became seriously ill the members of Malone Lodge interested themselves in his behalf and he was taken to the local hospital where he received every care and attention until the end.

Besides his widow he leaves no near relatives.

PHILADELPHIA PRICES STEADIER

(Continued from page 26.)

The Kieckhefer Paper Company of Camden, just across the river, is about to erect a brick building, 101 by 370 feet, on Thorn street, north of Copewood street, for the manufacture of paper boxes.

A new paper stock venture shortly is to be launched by men well known in the trade. They are George Rudolph, of Philip Rudolph & Son, now engaged in the paper board business, and Frank Schwab. They propose to open for business in the next week or two at 14-16 South Marshall street.

Advices have been received of the destruction last week of the plant of the Chestertown Strawboard Company at Chestertown, Md. The loss is said to have been complete.

The Whiting-Patterson Company is organizing an advertising and publicity department with the object of making an intensive fall drive for its products, nationally, but particularly throughout Pennsylvania. Vernon R. Schroff of the company, in charge of the book and cover department, is ill at his home. Allen E. Whiting, president, who has been spending a vacation in the mountains, is expected back at the office early in September.

Walter B. Doscher, manager for Louis DeJonge, is at Pocono Pines on vacation. He will return after Labor Day. E. A. Chastney, manager of the New York office, foreign trade department, is supervising the Philadelphia office during the absence of Mr. Doscher.

H. R. Hillegas, vice-president of the Franklin Paper Company, is on a two weeks' fishing trip at Ocean City. Among the victims of his prowess is a stinging ray, weighing over 77 pounds. He has the photo to prove it, too. More than a half hour and much perspiration was required to land it.

Extensive rearrangement of its sales force department has been made by the Dill & Collins Company at its headquarters, Sixth and Cherry streets. All the salesforce is now segregated on one side of the building, in a compact body. Artisans, too, have been busy with brush and saw and everything has been made spic and span.

William Simmons, head of Thomas Simmons' Sons, is enjoying a vacation on Lake Champlain and the northern New York lakes.

William M. Prizer, son of Harry A. Prizer, of the William Mann Company, whose paper mills are at Lambertville, N. J., is in the Lankenau Hospital recovering from an operation for appendicitis. During his absence his work in the advertising department, of which he is in charge, is being looked after by his assistant, H. D. Prizer.

News of the Kalamazoo Trade

[FROM OUR REGULAR CORRESPONDENT.]

KALAMAZOO, Mich., August 25, 1919.—It is rumored in certain circles that the Kalamazoo River valley will soon have a new paper company. While it is impossible to make public definite information regarding the personnel at this time, two paper men,

both well known in this section of Michigan, are mentioned as keenly interested in the proposition. It is understood they have received quite substantial financial encouragement looking to the success of the enterprise. There have been numerous conferences held recently with mill equipment representatives and a line on possible costs of machinery and equipment has been secured. No definite announcements as to the exact location of the proposed industry are forthcoming, nor is it possible to state whether the mill will be devoted to the manufacture of board or book paper.

Otto Ihling, senior member of Ihling Brothers & Everard, has been honored by the Knights of Pythias by being made a life member of Kalamazoo Lodge No. 5.

The Rex Paper Company is erecting a one-story stock house. The structure is 84 by 120 feet in dimensions. It will be completed in about ten days' time.

Messrs. Towlis and Barber, of the Provincial Paper Mills Company, Ltd., Georgetown, Ontario, have been inspecting the mills of this city.

Work has been started on the erection of the new plant for the Glendale Pulp Company. The plans have been prepared by Billingham & Cobb and the contract awarded to H. L. Vanderhorst.

The plant will be operated by its own power and a separate building is to be erected for this unit.

Workmen are now engaged at the Western Board & Paper Company in erecting the new fuel handling system for that mill. The Kalamazoo Foundry & Machine Company has the contract for the bunker; the Gifford-Wood Company will erect the coal conveyor proper, while the steam ash-handling system is being installed by the American Steam Conveyor Company. Billingham & Cobb are the general engineers and furnished plans.

News of the Western New York Trade

[FROM OUR REGULAR CORRESPONDENT.]

NIAGARA FALLS, N. Y., August 25, 1919.—A voluntary reduction in hours without a decrease in pay has been made by the management of the Hinds Paper Box Company in Ashland avenue. Starting this morning, all the employees in the big box works started on the eight-hour system. Previously the work day has been nine hours. Under the new system the employees will be permitted to decide whether they want to work an extra half hour each day and have Saturday afternoons off during the summer months.

Tomorrow will be a big day at Erie Beach on Lake Erie, when about 500 employees of the Buffalo Box Factory and the Fenton Fibre Box Company of Tonawanda and their friends will spend the day at the summer resort. The morning will be taken up with a baseball game between picked teams from the factories. Then dinner will be served, after which a fine program of sports will be run off, including tugs-of-war and foot races for men and women. A feature of the afternoon will be a novelty race, called a cootie race, which, it is said, will keep the contestants scratching some to win. After luncheon the evening will be spent in bathing and dancing.

R. M. Myers & Co. Open Branch

SYRACUSE, N. Y., August 25, 1919.—R. M. Myers & Co. announce the opening of a branch sales office at 805 Keith Theatre Building, 410 South Salina street.

This office is intended as a convenience to the printers of Syracuse and Central New York, and will be in charge of Alvin A. Miller, who has represented the firm in this territory for several years.

A complete line of samples will be carried, and accurate information regarding delivery and prices can always be obtained at this office.



“Calco” Colors

Methylene Blue

Methyl Violet

Malachite Green (Crystals)

Fuchsine Crystals

Soluble Blue

Your Color problems will be efficiently taken care of,
if submitted to our Special Papermakers' Laboratories

Marden, Orth & Hastings Corporation

Dyestuff and Intermediate Department

Bound Brook, N. J.

New York

St. Louis

Boston

Seattle

Chicago

San Francisco

Philadelphia

Cincinnati

Cleveland

New York Trade Gattings

The Caine Brothers Paper Company, Inc., has opened new offices at 29-31 Houston street, New York City. Its former address was 51 Chambers street.

R. Ginnis, L. Gelberg, and B. Gelberg, have chartered a \$20,000 corporation, known as the Peoples Bag and Paper Company, Inc., and will open offices at 134 9th street, Brooklyn.

W. J. Galliar, W. P. Leach, and J. B. Seaman were granted incorporating papers for \$20,000. They will open offices at 200 Fifth avenue, under the name of Paper Store Company, Inc.

L. B. Steward, of the American Paper and Pulp Association, 18 East 41st street, returned yesterday from a visit to his summer home in Maine, where he spent a short vacation.

W. T. Vanderbilt, of the W. T. Vanderbilt Company, Inc., will make a flying trip to Virginia to investigate some of the paper mills in that State, owned by the Vanderbilt Corporation, the last of this week.

A new corporation for manufacturing paper and twine was chartered by the Secretary of State at Albany today. The incorporators are J. G. Cohen, B. Levy, and D. B. Tollins. The concern, whose offices will be at 391 Broadway, is incorporated for \$15,000.

A general strike has been declared in the paper box industry in Brooklyn, which threatens to tie up the entire industry, according to Joseph Weinberg, general organizer of the paper box workers, in a statement issued last week. The workers demand a forty-four-hour week, a 40 per cent. salary increase, and better sanitary conditions in the workshops. There are about 1,000 on strike now, and by Monday, Weinberg said, 3,500 workmen would have stopped work.

At a special meeting of the Paper Traffic Association, it was found, from the reports made, that the members had received in claims very nearly the amount of the expenses of this organization for six months and had as dividends 12,000 freight bills checked, 15,000 rates quoted and 200 shipments traced as well as various indirect work in improving traffic conditions connected with the paper trade and all this in six months time. Notwithstanding this wonderful showing the members of the paper trade in New York are very remiss in their appreciation of this organization. A few of the members use it extensively, others to a less degree and the great bulk of the paper houses and smaller mills in the city are altogether disinterested when they could get some of these dividends that are being paid in service and in actual money refunds. One member has received to date \$148.33 rebate on bills when he only paid in \$75.

Aroostook Pulp Company in New Hands

BANGOR, Me., August 25, 1919.—An important business deal was consummated in Boston recently when the controlling interest of the stock of the Aroostook Pulp & Paper Company of Van Buren, formerly held by E. P. Lindsay of 301 Congress street, Boston, passed to A. R. Gould of Presque Isle, and H. B. Stebbins, of Boston.

At a meeting of the directors, Arthur R. Gould of Presque Isle, was elected president and H. B. Stebbins, of Boston, treasurer. Both men are well known in business circles in this section, Mr.

Gould in connection with the Gould Electric Company, Aroostook Valley Railroad and other large interests in this State and elsewhere, and Mr. Stebbins has been in the wholesale and manufacturing of lumber, with offices at Kilby street, Boston, for a number of years and has recently been connected with mills in Presque Isle and Howe Brook in this State.

The mill in the future will have no connection with any other combination of mills, and it is understood that both Mr. Gould and Mr. Stebbins will give more or less of their personal attention to this business. The mill has been closed for several weeks owing to market conditions and reorganization, but is expected to start immediately, as the company has a large amount of orders already on their books and practically a year's supply of pulpwood and material already on the ground.

W. J. Murphy, of this city, who has been resident manager since the construction work started in 1916, will be retained by the new owners in the same capacity.

Wisconsin Local Division Organized

At the call of John Welsh, general manager of the Green Bay Paper and Fibre Company, Green Bay, Wis., seventeen mills of the state met at Green Bay August 18 and organized the Wisconsin Local Division of the Cost Association.

Some of the mills represented were as follows: Bergstrom Paper Company, Green Bay Paper and Fibre Company, the John Hoberg Company, Lakeside Paper Company, Marathon Paper Mills, Menasha Printing & Carton Company, Nekoose-Edwards Paper Company, Northern Paper Mills, Stevens Point Pulp & Paper Company, John Strange Paper Company, Wausau Paper Mills Company, Whiting-Plover Paper Company, George A. Whiting Paper Company, American Writing Paper Company.

Mr. Welsh presided and D. E. Burchell, President of the National Cost Association, spoke at length on the importance of correct cost accounting and outlined the purpose and scope of work of local divisions.

A. C. Lasher of the George A. Whiting Paper Company was elected President and A. J. Ley of the Shattuck & Babcock Division of the American Writing Paper Company was elected Secretary-Treasurer.

The next regular meeting will be held at Neenah about September 15. A program of interest is being arranged and every mill in the state will find it of importance and worth while to have representatives present.

Jeffrey Manufacturing Company Opens Detroit Office

DETROIT, Mich., August 25, 1919.—Owing to the constantly increasing demand for Jeffrey products in the Detroit district, the Jeffrey Manufacturing Company has opened a new branch office in Detroit in the Book Building on Washington street, between State and Grand avenues.

This office will be in charge of O. B. Wescott, who has had long and successful engineering experience in the sales and engineering-construction department of the company and is well equipped to render valuable assistance to clients in working out the most economical and practical material-handling equipments for their requirements.

Mr. Wescott will give personal attention to inquiries for Jeffrey portable loading, elevating, conveying, crushing, pulverizing, screening or tipple machinery, and will welcome the opportunity of serving customers in Detroit and vicinity.

Lindley Box and Paper Company Expands

MARION, Ind., August 25, 1919.—The Lindley Box and Paper Company has begun the construction of a large plant here.

HOWARD BOND

WATERMARKED

Color Brilliant : Strength Wonderful

THE HOWARD PAPER CO.
URBANA, OHIO

F. C. HUYCK & SONS ALBANY, N. Y.



Manufacturers of Kenwood Felts and Jackets for all kinds of Paper and Pulp
Seamless Felts both for high speed machines and fine papers

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.

Light Edge on Front Side of Machine

Question No. 2454.—Light Edge on Front Side of Machine. Will you kindly tell me through your Practical and Technical Department why it is that I have a light edge on the front side of the machine, although the slices are up higher on the front side than they are on the back? What will remedy this trouble?

Answer No. 2454.—This fault is very common on all Fourdrinier paper machines, and is a very troublesome defect. It not only causes worry and work for the machine tender trying to get the edge up, but it also makes the opposite edge of the sheet look wild and cloudy, due to the rush of stock caused by the slices being lower.

The causes of this condition are: First, a shallow head box next to the apron which would allow the stock to rush to one side or the other, depending upon the construction of the head gate through which the stock passes. To remedy this you should have the box between the head gate and the apron at least 12 inches deep measuring from the top slide of the head gate.

Second, lost motion in your shake connections, which, if the shaker is at all vigorous, will cause the stock to leave the front side and come to the back. This is especially true when running slow stock. On free stock the water leaves so quickly, the shake hasn't so much time to act upon it. The remedy for this is to keep all the shake connections tightened, so that the front side of the frame will receive the same shake action as the back side.

Third, and probably the most frequent cause of the trouble, is the breast roll and tube rolls being out of level, and of course, if this is the case, the stock will surely run to the low side. To remedy this the level of the breast roll and the first section of tube rolls should be checked frequently, because the severe shaking action will loosen the bolts and pins holding them in position, and the slightest drop on either side will affect the level of your sheet.

These are the primary causes of a light edge, but an intelligent adjustment of the slices is absolutely necessary even under the most perfect conditions.

Who Can Answer This?

We have a problem which we desire to submit to the readers of The Paper Trade Journal, in the hope that some of its readers can help us out.

A few years ago we decided to replace the wood floors in our washers with concrete. This change worked very well, and was completely satisfactory until the acid and bleach began to work on the concrete. The action of these chemicals caused disintegration of the cement, leaving only the gravel. Partly washed rags lodge in these crevices so that when the washer is dropped to the drainer, we get a quantity of these raw rags scattered all through the stock. This causes us considerable trouble as you can readily understand. Can you or any of your readers suggest a way we can eliminate this trouble? We have tried going over this with a light mixture

of cement, but this lasts only for a short time. We do not want to go back to wood if we can possibly help it.

NEWS PRINT MEN NOT DISTURBED

(Continued from page 16.)

The erection of a plant that would cost \$300,000 for the manufacture of alcohol out of the waste liquor from a sulphite plant is now being considered by the Dexter Sulphite Pulp & Paper Company. Dr. James E. Campbell, president of the company, said today that the proposition is being given exhaustive investigation now before definite decision is reached as to the economical possibilities under existing circumstances.

Dr. Campbell recently returned from an extended trip of investigation among pulp and paper mills in Europe. He stated today that he found that alcohol plants were found in operation in Sweden where the business is conducted with financial success. He would build a similar plant in connection with his big sulphite mill at Dexter.

It is simply a reclaiming of waste liquors that have served their usefulness in paper making, and are now discharged into the river. It is found that there are fermentable sugars in the liquor. The acid is neutralized with lime, yeast is added and a 95 per cent pure ethyl alcohol of finest medicinal qualities is the result.

The dry wave that has spread itself over this country is admitted to cause hesitation on the part of the company in proceeding with the erection of the plant. This feature is now being investigated by Dr. Campbell, and upon his findings in this direction depends to a considerable extent the decision on the point of starting the plant.

Mr. Sewall's Views on Income Taxes

[FROM OUR REGULAR CORRESPONDENT.]

OLDTOWN, Me., August 25, 1919.—James W. Sewall, timber expert and forest engineer, has returned from a short trip to Washington, where he discussed with Major David T. Mason, of the Natural Resources Section of the Bureau of Internal Revenue, the forthcoming questionnaire which is to be sent to the various timberland men of the country, to enable the Commissioner of Internal Revenue to fairly assess income taxes.

Mr. Sewall was very pleased with Major Mason's eminently fair attitude, and feels that timberland men are fortunate in having him in charge of the work.

Mr. Sewall has decided to offer the services of his organization to recipients of the questionnaire who may wish expert advice thereon, either in compilation of maps or data in the office or in the field. He will endeavor to keep in as close touch with Washington as possible, and very probably will arrange for a man to represent him in that city should the new work show the need of such. He feels that while the Government intends to furnish all information and instruction possible, that, nevertheless, the giving of detailed, technical, individual help such as he proposes may be beyond its power, particularly in the first stages of what is an absolutely new departure.

*Are You Saving
Your Dry Pulp
and "Broke"?*

Here is a machine that will quickly earn its keep.

VOITH'S Wurster Kneader

will work up your "broke" or waste paper and repulp dry or frozen pulp, preparatory for going into the beater.

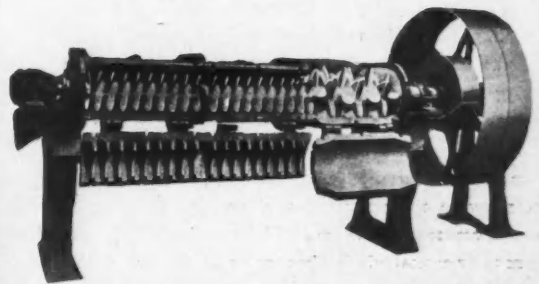
All foreign substances in the pulp is held in the machine, the materials being discharged free and clean. All the moving parts are made of cast steel and easily exchangeable.

When this machine is installed at the finishing end of the machine the "broke" can instantly be worked up without the necessity of transporting it to another section of the plant.

We are sure full details on this machine will interest you. Let us write you about it.

J. M. Voith Co.

200 Fifth Avenue
New York



Editorial

Vol. LXIX. New York, Thursday, August 28, 1919 No. 9
FORTY-EIGHTH YEAR

Questions and Answers

With this issue the PAPER TRADE JOURNAL resumes the regular publication of its "Questions and Answers Department." This department in years past has proved one of the most popular and helpful features of this paper, but because of conditions brought about by the war the publishers were reluctantly forced to discontinue its regular publication some time ago.

With the return to normal conditions again, however, numerous subscribers of the PAPER TRADE JOURNAL will be glad to learn that it has been possible to perfect arrangements to resume this department. As formerly it will be conducted by one of the most widely experienced paper makers in the country, who will give careful attention to every question submitted to him.

Paper makers who have problems of any description are urged to send them in to the Technical Editor of the PAPER TRADE JOURNAL, and they will be answered as soon as possible in the "Questions and Answers Department."

In Our Own Hands

Solution of the financial crisis superinduced by the unjust cost of living is largely in the hands of the American people themselves, according to the U. S. Federal Reserve Board. In his letter to the Senate Committee on Banking and Finance, W. P. G. Harding, Governor of the Federal Reserve Board, said:

"Whether viewed from an economic or financial standpoint the remedy for the present situation is the same, namely to work and to save; work regularly and efficiently, in order to produce and distribute the largest possible volume of commodities, and to exercise economies in order that money, goods and services may be devoted primarily to the liquidation of debt and to the satisfaction of the demand for necessities, rather than to the indulgence in extravagance or the gratification of a desire for luxuries."

America must both work and save. There are many ways to work, but only one way to save. That is to save first and spend afterwards, to put aside the first dollar that comes in, not the last dollar that goes out. It was to make possible the saving of even the smallest sums and their safe investment that government Savings Stamps and Treasury Savings Certificates were offered to the American people.

Students of economics declare that this country is on a magnificent prosperity debauch. Dealers in jewelry, expensive apparel and food delicacies throughout the country say the demand for their wares is unprecedented and that buyers do not care what they pay for them.

According to the comptroller of the currency, 189 new banks have been granted charters and 224 others have been authorized to increase their capital within six months. Investors are selling their Liberty Bonds and buying luxuries. Wage increases have been met immediately by increased expenditures for non-necessities by workers.

Yet our public debt is over \$25,000,000,000, or about \$1,000 for each male wage earner in the country.

"Any sort of debauch, even a psychological one, must have an end sooner or later," says one economist. "The after effects of all are well defined—empty purses, headaches, nausea, stupor, ugliness. There is more danger to sound government in a reckless psychological drunk than in any other sort."

The cure for America's financial headache lies in regular saving, wise investment in sound profitable guaranteed securities such as Liberty Bonds, War Savings Stamps and Savings Certificates, wise buying of the things one really wants and the treatment of those things as though they had the same value as money itself.

Be An Optimist

By far the most destructive force in the world today in secular as well as religious affairs is pessimism—the habit of looking on the dark side of things, of looking for trouble and disaster, of preaching from a text full of forebodings and storms. The greatest motive power is optimism and hope—the habit of looking on the bright side of things and waiting for the sunshine while the storm is at hand.

In the business world success or failure is often measured by the degree of optimism or pessimism, the atmosphere of sunshine or shadow, in the mill or office. What we call success is largely psychological. Men and women purchase under the power of suggestion and enticing surroundings.

It is surprising what a dynamic effect on a man's optimism self-interest has. When an employee has something to work for, some reward to look forward to, optimism is at high water mark. This is why the plan of profit-sharing appeals to so many people as the solution of the present wage problem. It has been tried successfully in many instances and is bound to spread. Most employers want to see their employees get ahead and are willing to pay all the business will stand, but they have not appreciated the psychological effect of self-interest, for that is what profit-sharing is. If some universal plan can be worked out whereby the profits of the fat years can be shared by all, and likewise the losses of the lean years will be also shared by all, the problem can be solved with profit to employers and employees.

Notwithstanding the clouds and storm signals of today it is safe to predict that the United States is on the edge of the biggest and best business era the country ever saw. Prosperity has a psychological side as well as a material side, and brisk business always makes its appearance where the light of optimism is. Flowers grow most luxuriantly where the sun shines.

Therefore it pays as a business proposition to be an optimist—to talk and think optimism. It is contagious. It is like a tonic to associates, a prohibition drink with a "kick" in it. The man who always looks for sunshine always finds it. The man who is every on the lookout for something pleasant and hopeful to say finds the most dollars and the best business. Business is always bad to the grouch and the pessimist—always good to the smiler and the optimist. If the business men want to realize the best trade, the best business they ever experienced, now right on the way and almost under their noses, let them think hopeful thoughts and be optimists. It pays.

Recent Incorporations

HOUSTON PAPER COMPANY, Inc., of Houston, Texas. Capital stock, \$30,000. Incorporators: Harry Mattz, Mike Mattz and Isador Mattz, of Houston.

CHANGE COMPANY, Delaware, paper bags, etc. Capital, \$10,000. Incorporators: Channy L. Wigglesworth, W. S. Rosenbaum, H. Willis Fleu, of Philadelphia.

MCPHERREN, Seattle, Washington; capital, \$5,000. Incorporators: George McPherren and F. G. Statham.

ECLIPSE PAPER BOX CO., INC., Manhattan, New York. Capital, \$10,000; S. Koch, B. Argude, K. Argude, L. Silver, 31 Market street.

HONIGSTOCK-SIMON, Inc., Manhattan, New York, make paper boxes, \$15,000. Incorporators: S. Honigstock, H. F. Simon, H. Frank, 87 Nassau street.

E. F. COLIER & SON COMPANY, Delaware, do a general printing and publishing business; capital, \$10,000,000. Incorporators: A. W. Britton, Samuel B. Howard, George V. Rilley, New York.

YOUNGSTOWN WASTE PAPER AND JUNK COMPANY, Youngstown, Ohio. Capital, \$1,000. Incorporators: Sarah Lederman, Morris Lederman, Andrew Rheuben, Anna M. Ross, and Henry Greenwald.

PULP PRODUCTS COMPANY, Fort Wayne, Indiana. Capital, \$15,000. To manufacture boxes, cartons and containers. Directors, William P. Wyss, H. P. Euler, Clement J. Lamont.

LINCOLN PAPER MILLS, Elkhart, Indiana. Capital, \$100,000. Dealing in all kinds of paper. Directors, S. B. Monroe, Harry A. Bardeen, Edward B. Zigler.

Plans for Technical Convention

The fall meeting of the Technical Association of the Pulp and Paper Industry, to be held at Chicago in conjunction with the Fifth National Exposition of Chemical Industries, September 24, 25, 26 and 27, 1919, gives promise of being well attended and productive of several important contributions to the knowledge of papermaking processes and engineering developments. The plans of the local committee of arrangements are maturing and the entertainment features in connection with visits to mills, manufacturing establishments, educational institutions and research laboratories will shortly be announced.

In addition to the papers already reported for presentation, there are promised an account of research work done at Columbia University on the utilization of waste sulphite liquor as fuel by Prof. Ralph H. McKee and George Barsky; a demonstration and talk on an apparatus for testing paper for tearing strength, tensile strength, stiffness, resilience and folding strength; and a special address on engineering problems in the paper mill.

An interesting discussion of losses of soda in the evaporation of black liquor in sulphate pulp manufacture will be directed by the committee on sulphate pulp, O. Bache-Wiig, chairman.

The committee on Sulphite pulp, H. G. Spear, chairman, has been working on new and improved methods of handling waste liquor from the digesters and of cooling the SO₂ gas from the burners. Other studies and investigations will be embodied in their report, which should be of considerable value to sulphite pulp manufacturers, especially in view of the discussion that will be elicited.

The report of the committee on soda pulp, Martin L. Griffin, chairman, is in the hands of the secretary and will be sent out to members in advance of the meeting. The report deals with the principles and practice involved in washing unbleached soda pulp. The formal discussion of the subject will be led by the members of the committee associated with Mr. Griffin, George K. Spence, William H. Howell, Jr., and George M. Trostel; O. Bache-Wiig, P. Defin, and others.

A continuous sedimentation or freeness tester for groundwood pulp has been developed at the mill of the Watab Pulp & Paper Company, Sartell, Minn., under O. L. E. Weber, and this will be described by Fred A. Naegeli, chemist of the company.

On the second day of meeting the members will be the guests at luncheon of the Chicago firm of Sears, Roebuck & Co., after which a personally conducted tour of the paper-making department of the extensive plant of this company will be taken.

The entire day of Friday, September 26, will be spent at Madison, Wis., inspecting the pulp and paper branches of the Forest Products Laboratory, under the guidance of Carlile P. Winslow, director, and staff, which includes a number of members of T. A. P. P. I.

Trains for Madison, Wis., leave Chicago over the Chicago and Northwestern Railroad on Thursday evening, September 25, at 5:30 and 8:00 o'clock. A special sleeper leaving Chicago at 2:00 a. m. Friday, September 26, will be ready for company at 10:00 p. m., Thursday. This train is due to arrive in Madison at 7:20 a. m. Friday. Breakfast will be served at the Park Hotel. The first class fare from Chicago to Madison is \$4.21 and sleeper berth \$1.62. It is important that early notice be given the Chicago convention committee of the intention of members to attend the meeting and join the party on the trip to Madison, Wis., and this can be done by a postal card addressed to Thomas H. Savery, Jr., chairman of the committee, 1718 Republic Building, Chicago.

Miami Paper Mills Busy

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, August 25, 1919.—Paper mills throughout the Miami Valley are rushed to capacity. The demand for the better grades of paper continues brisk and, judging from present indications, the future holds much in store for makers of practically all grades.

Bonds and writings are especially active. Paper boxes of all descriptions, cartons, paper buckets and novelties also are in big demand. The novelty advertising branch also shows signs of awakening. The local envelope branch is still running full time and is about keeping up with orders from all sections of the country. Private envelope plants down the valley also are doing a big business.

A. P. W. Paper Company to Build Addition

ALBANY, N. Y., August 25, 1919.—The Albany Perforated Wrapping Paper Company has obtained a permit from John Fulton, superintendent of buildings, for an \$18,000 addition and alterations to its factory at 1271 Broadway. The William G. Sheehan Construction company will do the work.

EDWIN BUTTERWORTH & CO.

MANCHESTER, ENGLAND

Packers of all kinds of

PAPER STOCK, COTTON WASTE AND GUNNY BAGGING, BUFFALO SIZING, Etc.

83

Sole Agents HAFSLUND

BLEACHED SULPHITE PULP — BEAR BRAND

Boston Office, 136 Federal St.

New York Office, 133 Nassau St.

CHARLES H. WOOD, Sr. U. S. Mgr.

LEWIS JENNINGS, Manager

"WATERBURY"



ORISKANY, N. Y.

OUR TIGHT FITTING, DIAMOND "W" JACKETS
WILL NOT LICK UP AT ANY SPEED

1869 {MADE ONLY AND} 1918
GUARANTEED BY

H. WATERBURY AND SONS COMPANY, ORISKANY, N. Y.

PRODUCTION AND SHIPMENTS OF ALL PAPER DURING JULY

Federal Trade Commissioner Issues Statistical Summary Regarding the Stocks of All Paper Mills for the Month as Compared With the Month of July, 1919—Table Is Presented of Loss of Operating Time, by Grades and Reasons, for July, 1919, as Compared With June, 1919—Stocks of Specialties and News Print Increased During the Month, but Stocks of all Other Grades Decreased.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., August 26, 1919.—The attached tabulation prepared by the Federal Trade Commission is a summary of production, shipments and stocks of all paper mills in the United States for the month of July, 1919. This summary is compared with the month of July, 1918, and the average production and stocks based upon the weekly and monthly reports for the 12-months' period ended March 31, 1919. The mills have been classified for convenience into ten groups according to the grades of paper made. Some mills making several grades appear in more than one group, which causes a duplication in the body of the tonnage table in the number of mills.

The variation in the number of mills from one period to another is due in part to the fact that some mills do not run continuously on the same grade.

The stocks of paper carried by different mills depend not only upon the conditions of the market but also upon the kind of paper made, the trade customs, etc.

The total time the machines were idle, reported by domestic mills, is shown by grades in the tabulation below. This includes the machines in mills which were closed down completely. The principal reasons for lost time were lack of labor, lack of orders and repairs. "Other reasons" include lack of material, lack of power, additional holiday time taken after July 4, etc. The total time lost in June is shown by grades and reasons for comparison purposes.

Loss of Operating Time, by Grades and Reasons, for July, 1919, Compared with June, 1919.

Grade	Lack of Labor	Lack of Orders	Repairs	Other Reasons	Total (July)	Total (June)
News Print—						
Number of machines....	3	0	18	20	41	61
Total hours idle.....	1,301	0	1,753	691	3,745	2,971
Book Paper—						
Number of machines....	7	12	20	112	151	42
Total hours idle.....	262	1,074	2,038	4,251	7,625	5,182
Paperboard—						
Number of machines....	26	50	104	140	320	270
Total hours idle.....	4,874	12,009	11,276	16,225	44,384	41,972
Wrapping—						
Number of machines....	8	11	31	76	126	99
Total hours idle.....	2,066	2,636	3,269	6,266	14,237	16,381
Bag—						
Number of machines....	0	2	16	10	28	23
Total hours idle.....	0	696	1,374	1,348	3,418	4,760
Fine—						
Number of machines....	1	37	32	56	126	112
Total hours idle.....	66	11,176	3,585	3,077	17,904	23,086
Tissue—						
Number of machines....	3	6	39	49	97	87
Total hours idle.....	226	2,910	5,373	3,505	12,014	16,233
Hanging—						
Number of machines....	0	1	6	4	11	11
Total hours idle.....	0	459	972	407	1,838	1,526
Felts and Building—						
Number of machines....	5	14	18	17	54	46
Total hours idle.....	835	2,946	823	2,541	7,145	6,396
Other Grades—						
Number of machines....	0	14	18	21	53	28
Total hours idle.....	0	2,523	2,278	1,330	6,131	5,660
Total number of machines (July)	53	147	302	505	1,007	.....
Total hours idle for all machines (July)	9,630	36,429	32,741	39,641	118,441	.....
Total number of machines (June)	28	254	284	213	.....	779
Total hours idle for all machines (June)	6,266	63,211	28,680	26,010	.....	124,167

Production, Shipments and Stocks of Paper, by Grades, for the Month of July, 1919, Compared with July, 1918, and with Average Production and Stocks.

Grade	Number of mills	Stocks on hand 1st of month	Production	Shipments	Stocks on hand end of month
News Print (Standard and Special Grades of News)—					
July, 1919	76	26,115	113,929	111,819	28,225
July, 1918	67	26,161	108,523	109,772	24,912
Average .....	.....	.....	109,876	.....	23,649
Book (M. F., S. S. C. and Coated)—					
July, 1919	92	36,186	75,613	77,787	34,012
July, 1918	94	30,707	66,177	65,379	31,505
Average .....	.....	.....	72,514	.....	31,330
Paperboard (Straw, Chip, Fiber, Leather, etc.)—					
July, 1919	246	62,018	169,593	174,051	57,560
July, 1918	233	38,630	175,550	173,942	40,238
Average .....	.....	.....	163,436	.....	44,118
Wrapping (Kraft, Manila, Fiber, etc.)—					
July, 1919	169	68,912	63,769	74,030	58,651
July, 1918	149	37,407	67,211	65,828	38,790
Average .....	.....	.....	63,050	.....	41,308
Bag (all kinds)—					
July, 1919	42	4,523	15,934	16,401	4,056
July, 1918	31	3,184	14,976	14,697	3,463
Average .....	.....	.....	13,572	.....	3,500
Fine (Writings, Bonds, Ledgers, etc.)—					
July, 1919	116	41,898	30,036	31,603	40,331
July, 1918	101	25,241	36,994	28,161	28,074
Average .....	.....	.....	32,838	.....	30,884
Tissue (Toilet, Crepe, Fruit Wrappers, etc.)—					
July, 1919	91	9,027	14,685	14,971	8,741
July, 1918	82	5,362	12,664	12,610	5,416
Average .....	.....	.....	11,752	.....	5,552
Hanging (No. 2 Blank, Oatmeal, Tile, etc.)—					
July, 1919	22	7,125	6,643	7,259	6,509
July, 1918	18	4,240	5,305	6,083	3,462
Average .....	.....	.....	6,786	.....	37,555
Felts and Building (Roofing, Sheathing, etc.)—					
July, 1919	52	9,030	29,402	29,858	8,574
July, 1918	41	5,791	23,272	23,077	5,986
Average .....	.....	.....	20,592	.....	7,400
Other Grades (Specialties not otherwise classified)—					
July, 1919	77	13,854	19,260	18,852	14,262
July, 1918	45	5,214	21,955	21,127	6,042
Average .....	.....	.....	13,104	.....	8,604
Total of all Grades—					
July, 1919 .....	.....	278,688	538,864	556,631	260,921
July, 1918 .....	.....	181,937	526,627	520,676	187,888
Average .....	.....	.....	507,520	.....	199,860

Note.—The figures for 1918 have been prorated from a weekly basis to a calendar month basis and adjusted in conformity with the annual report. Average production and stocks are based upon the weekly and monthly reports for the 12-months' period ended March 31, 1919.

The following stocks were reported on hand at terminal and delivery points on July 31 in addition to the mill stocks reported above: News print 1,372 tons; book paper 4,691 tons; and wrapping 232 tons.

Stocks of newsprint and specialties increased during the month. Stocks of all other grades decreased. Mill stocks of all grades showed a net decrease during July of 17,767 tons. Stocks of all grades reported by manufacturers at the end of July amounted to 266,072 tons, including the stocks at terminal and delivery points. In addition to these stocks, jobbers and publishers reported news print stocks aggregating 155,487 tons.

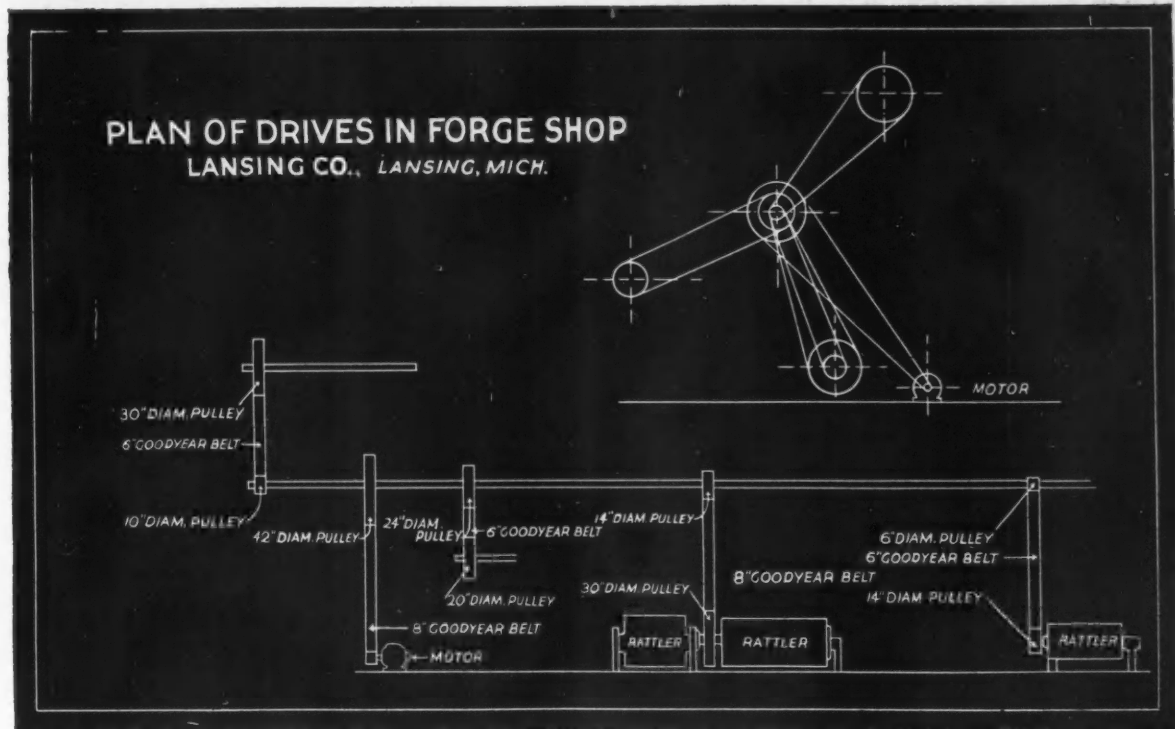
Ratio of Stocks to Average Production

Comparing the stocks on hand at the domestic mills on July 31 with their average daily production based upon the weekly and monthly reports for the 12-months' period ended March 31, 1919, the figures show that:

News print mill stocks equal slightly less than 7 days' average output.

Book paper mill stocks equal slightly more than 12 days' average output.

Paperboard mill stocks equal slightly more than 9 days' average output.



\$11.66 Lower Price, \$60.01 Lower Cost—and the G. T. M.

One day in the summer of 1917 a G. T. M.—Goodyear Technical Man—called on the Lansing Company in Lansing, Michigan. He explained the Goodyear Plan of selling belts, of making a diagnosis of the conditions surrounding each drive and then prescribing the proper belt to meet those conditions. It seemed to him that the men he talked with rather thought that his belts must be very high priced.

But they showed him a motor drive, operating a line shaft, on which a double belt generally gave only six or seven months' service. He studied that drive, noted the excessive heat of the forge-shop in which it was, noted the presence of grit and dust, made his measurements of power, speed, distance between centers, pulley sizes and the like. Then he prescribed an 8-inch 5-ply Goodyear Belt of Blue Streak Construction.

The price was lower by \$11.66 when compared with that of the belt then just about giving out. So they thought they might as well give him a trial order. The belt came and was installed August 9th, 1917.

In spite of the heavy duty drives from the line shaft—drives operating rattlers and an elevator for hoisting iron to the foundry—it gave them a trouble-free service that they had never hoped for before. And it lasted seventeen months—although

its price was \$11.66 lower than that of the seven months' belt.

Price is what you pay for an article; its cost is what you get out of it. The old, expensive belt was priced at \$33.88 in the summer of 1917. It cost \$4.84 per month for its seven months' life. The Goodyear Belt specified by the G. T. M. was priced at \$22.22—and cost \$1.31 per month for its seventeen months' service.

Its cost was \$3.53 per month—\$60.01 less for the seventeen months. But long before it was worn out, the G. T. M. was asked to analyze another drive, one from the line shaft to a pair of rattlers. He specified an 8-inch 5-ply Goodyear of Blue Streak Construction. After it had been operating sixty days, the superintendent was so well pleased with its greater efficiency and freedom from trouble that he ordered another according to the G. T. M.'s specifications, and later still another; by Jan. 10th, 1919, there were five Goodyear Belts in the forge shop alone.

If you have a belt-eating drive in your plant, send for a G. T. M. In most cases he can save for you both in price and cost. His services are free, for the business sure to result within a few years more than pays for our investment in having him study your drives and specify the right belt to meet your conditions.

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STRIKE CONTINUES AT MILL OF NEKOOSA-EDWARDS CO.

Strikers Give Strike Breakers at Port Edwards Plant Rough Reception—Kimberly-Clarke Co. Begins Action Against The Wisconsin Trust Co. for a Judgment Requiring the Defendant to Value Certain Timbers Which the Plaintiff Seeks to Have Released—Wisconsin Group of Paper Mills Cost Association Is Formed at Green Bay—John Strange Plant Endangered by Fire.

[FROM OUR REGULAR CORRESPONDENT.]

APPLETON, Wis., August 26, 1919.—Attacking a train which brought strikebreakers from Chicago, striking employees of the Nekoosa-Edwards Paper Company at Port Edwards hurled rocks through the train windows and stoned the train crew. Sixty-five strikebreakers were on the train.

Strikers were notified of the approach of the train a few minutes before its arrival at five o'clock in the morning, and several hundred men and women, many scantily clad, rushed to the tracks. The train crew were called traitors for bringing the men, and strikebreakers were urged not to stop. It is said several of the men refused to get off the train. Two women attempted to stop the train by throwing themselves on the track, but the engineer drove the crowd back by engulfing them in steam.

Two machines in the Port Edwards plant have been started. Several strikers, who have returned to work, assisted by imported men, are now working in the plant.

Strikers have established a double cordon of pickets about the mills and employees at work are not permitted to leave the plant. Several cases of violence have been reported and armed guards are stationed about the plants to keep the strikers away.

Feeling is becoming more bitter every day and a large number of special deputies have been sworn in by the sheriff to be in readiness for possible trouble.

It is said women have been ringleaders in several near riots. They are assisting their husbands in every way possible. The company has agreed to discuss the controversy with them and has made a proposal which was voted down. Practically all of the union's demands, with the exception of the closed shop principle, can be arbitrated, it was asserted.

Kimberly-Clark Co. Begins Timber Suit

Action has been instituted by the Kimberly-Clark Company against the Wisconsin Trust Company of Milwaukee for a judgment requiring the defendant to value certain timber which the plaintiff seeks to have released and also the improvements which the plaintiff added to mortgaged property involved in the suit. The action, which has been termed a "friendly suit," was instituted in order to have the court construe certain clauses of a mortgage which the trust company holds. The defendant admits all allegations in the plaintiff's complaint except the value of improvements added to the property in question and the court will be asked to determine the value. Moses Hooper, attorney for the paper company, submitted a brief to the court, and Charles M. Morris, attorney for the trust company, asserted that the plaintiff's brief was satisfactory and he would not submit another.

Strange Plant Endangered by Fire

The big plant of the John Strange Paper Company at Menasha was endangered when fire was discovered in the third floor of the building occupied by the office and warehouse. The blaze was located with difficulty and firemen worked at a disadvantage because of the dense smoke. Considerable damage was caused by smoke and water, but the blaze was checked before it had made great headway.

Madison Paper Co. Organized

A new wholesale paper company, known as the Madison Paper Company, has been organized at Madison, Wis., with a capital stock of \$50,000. F. W. Cantwell, Madison, is president and treasurer, and J. D. Cantwell, Milwaukee, is secretary and manager.

F. W. Cantwell organized in 1897 the Capitol City Paper Company, the first wholesale paper company in Madison. Later this company was purchased by T. S. Morris and became the T. S. Morris Paper Company. Organizers of the new company believe their field is large enough to support two wholesale paper companies and are looking forward to a successful future. The company will carry a complete line of wrapping paper, paper bags, woodenware, paper supplies, commercial stationery and kindred lines.

McGillan-Asmuth Paper Co. Incorporated

Articles of incorporation have been filed with the Secretary of State at Madison for the McGillan-Asmuth Paper Company of Menasha, capitalized at \$100,000. The company will engage in the manufacture of all kinds of paper products. Incorporators are T. E. McGillan, Anton Asmuth and R. J. Fieweger, all interested in the Peerless Products Paper Company.

New Paper Firm at Brockville

John R. Buchanan, formerly of the Appleton Wire Works, but now connected with a wire plant at Ottawa, Can., is one of the organizers of a new paper company at Brockville, Ont. The new company, which is to be known as the Brockville Paper Manufacturing Company, will shortly be incorporated at from \$150,000 to \$200,000. It is proposed to erect a three-story building, 150 feet long by 65 feet wide. Employment will be given to about 150 men, it was said. C. F. Buss, of Mille Roches, is to be associated with Mr. Buchanan in the venture.

New Freight Packet Line Organized

A new freight packet and barge line to operate on the Fox and Wolf rivers and Lake Winnebago has been organized here and will be ready to start operations with the opening of navigation in the spring. The company will acquire a packet freighter, tug and two barges. Coal for paper mills and fuel yards, sand and gravel for construction work is to be transported by the barges, while the freighter will make regularly scheduled trips on the rivers and lake. The Fox River Navigation Company, which is owned by paper manufacturers, saved mills of the valley from closing down because of a lack of coal during the recent strike of railroad shopmen. Many mills in the valley had immense stocks of paper awaiting shipment when the strike ended and it was feared that several mills would have been obliged to close down because of a lack of storage room if the strike had continued much longer.

Goes with Burnside Paper Co.

Ernest Draheim, who had been connected with the Neenah Paper Company for several years, has resigned to become a traveling representative of the newly organized Burnside Paper Company of Neenah. He is a son-in-law of G. W. Burnside, president of the Burnside Paper Company.

Alcohol From Pulp Mill Work

Recent investigations of the production of ethyl (grain) alcohol from sulphite pulp mill waste, conducted by the United States Forest Products Laboratory at the University of Wisconsin, showed that of the 2 to 2.9 per cent. total sugars formed in the waste liquor about 55 to 62 per cent. are fermentable and upon fermentation go to produce only ethyl alcohol.

Fermentations of the sulphite liquor conducted on both experimental and commercial scales showed a production of 0.7 to 1.15 per cent. by volume of absolute alcohol. A plant with a capacity of 100,000 gallons of waste liquor would thus be able to produce from 700 to 1,050 gallons of absolute alcohol per day.

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PAPER-MAKING MATERIALS OF THE PHILIPPINES

WRITTEN BY J. F. BOOMER, CORRESPONDENT, MANILA, P. I.

(Continued from the issue of August 14.)

The problem of bleaching cogon pulp seems to be easily solved. Richmond describes two of his experiments in bleaching this pulp as follows:

Experiment No. 1.—The residue from digestion (2.5 per cent. soda liquor, and 1.25 per cent. caustic, calculated on weight of material), amounting to 454.2 grams, was repulped in 10 liters of water; 1 liter of a bleaching solution of 2.35 per cent. of available chlorine (approximately 10° Bé) was added, and the whole allowed to bleach over night. No residual chlorine remained, but the pulp was of a clear white color. The amount of chlorine consumed was 23.5 grams (100 cubic centimeters of 2.35 per cent. solution). This represents 67.1 grams of powder equivalent to 6.71 per cent. (6.71 pounds of bleaching powder per hundredweight of grass). The bleached pulp weighed 428.7 grams, which gave a loss of 5.62 per cent. in bleaching.

Experiment No. 2.—A residue from digestion with 20 per cent. caustic soda, amounting to 440 grams, was submitted to exactly the same conditions as those given above. The residual chlorine amounted to 0.78 gram, which leaves 22.72 grams as the amount consumed. This represents 64.9 grams of powder (6.43 pounds of bleaching powder per hundredweight of grass). The bleached pulp weighed 418 grams, which represents a loss of 5 per cent. in bleaching.

Talahib a Hardy, Coarse Grass

Talahib (*Saccharum Spontaneum*) is a coarse, jointed grass, growing from 6 to 10 feet tall. It is gregarious and springs in tufts from stout underground root stalks. Talahib is often confounded with cogon grass. It is very different from the latter, however, in both its appearance and habits of growth. Talahib thrives best in low, moist land and flourishes in river valleys and areas subject to annual floods.

This grass generally occurs with or near cogon grass, growing vigorously in the wet places where cogon does not do well, and being of a poor variety on the uplands where cogon thrives well. It is difficult to get rid of. Cutting and burning has but little effect on it other than to increase its yield and quality. Talahib is related to the *Saccharum sara* (the Munjo grass of India) and *Saccharum officinarum* (the sugar-cane of tropical countries).

Digestion and Bleaching Experiments with Talahib

Richmond found that a small quantity of talahib, fully matured with entire stems and leaves, gave the following laboratory results:

	Percentage
Moisture	10.23
Ash	5.46
Hydrolysis (a)	27.44
Hydrolysis* (b)	40.53
Cellulose	53.90

In case talahib is allowed to become very dry before it is cut, the nodes harden and become difficult to digest, which results in a considerable amount of shive. Unless this grass were cut green it would require some crushing of the stems to get rid of the nodes and facilitate digestion. This grass, after six hours digestion with 12½ per cent. of caustic soda, based on the weight of the grass, with pressure of from 4 to 5 atmospheres, yielded approximately 46 per cent. of pulp. This pulp bleached to a good white with a loss of only 3.2 per cent. in weight, when 5.7 per cent. of bleaching powder, based on the original weight of the grass digested, was used.

Bananas and Plantains Rich in Stock for Paper

Plantains (*Musa paradisiaca*) and bananas (*Musa sapientum*) contain much fiber that might be utilized in the manufacture of paper stock. These plants abound almost everywhere in the Philippines. Probably close to 100,000 acres are planted to them. The fiber from them has not the tensile strength of abaca, but this is considered by Richmond an advantage when the fiber is to be employed in the manufacture of paper pulp. Nearly 20,000,000 bunches of fruit are gathered yearly in the islands from these plants, and there are, therefore, a like number of full-grown stalks which annually go to waste, since practically no use is now made of them. The figures do not include the wild nonedible plantains, which are common throughout the Philippines and which might be utilized in the making of paper stock.

Richmond found that the average stalk weighed 100 pounds. A stalk, under pressure, yielded a dry residue of 93 per cent. of the gross weight. The fiber estimate was 2.46 per cent. of the gross weight. By the use of a dilute solution of sodium carbonate containing a proportionate quantity of quicklime, the fibrous ribbons of one stalk, obtained by dividing the stalk longitudinally into narrow strips and cleaning these of water and cellular matter by drawing them under a knife, yielded 2.2 pounds of light-gray, textile fiber.

Experiments with Plantain Fiber

Richmond describes an experiment in pulping and bleaching plantain fiber as follows:

Six hundred and eighty grams of cleaned fiber, obtained by boiling the outer fibrous strips of plantain stalks in dilute sodium carbonate and lime, were digested under 5-6 atmospheres pressure for five hours, with 20 per cent. caustic soda, calculated on the weight of the material. The washed, dry residue weighed 442 grams, equal to a yield of 65 per cent. This residue was repulped in an excess of water and bleached under exactly the same conditions as those used for bleaching abaca pulp. Chlorine consumed was 15.2 grams, equivalent to 43.4 grams of bleaching powder of 35 per cent. strength (9.81 pounds per hundredweight of pulp, 6.38 pounds of powder per hundredweight of raw fiber). The dry, bleached pulp weighed 404 grams, a loss of 8.6 per cent. in bleaching.

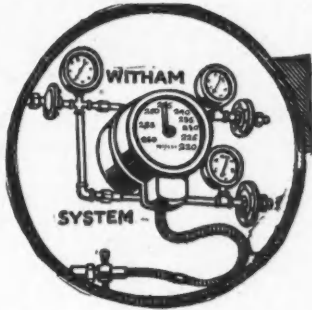
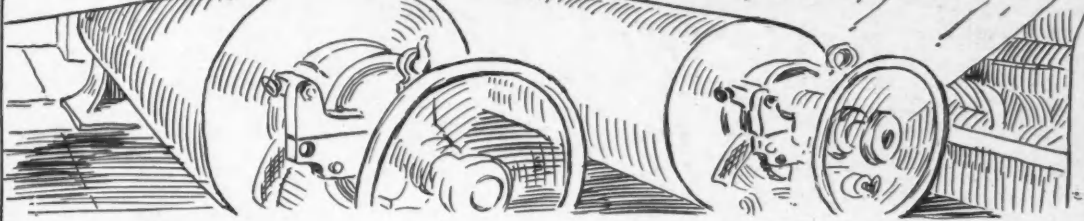
The chemical investigation of plantain fiber, carried out by Richmond at the Philippine Bureau of Science, showed the following:

	Percent-
Ash, alkaline, and cellulose calculated on dry weight—	age.
Moisture	10.02
Ash	3.46
Hydrolysis (a)	16.78
Hydrolysis (b)	27.42
Cellulose	68.21
Composition of raw fiber from plantain—	
Cellulose	61.68
Fat and wax	1.06
Aqueous extract	1.77
Lignin and pectous substances	22.79
Water	9.57
Ash	3.46

There appears to be no good reason why a plantation of bananas might not yield a profitable revenue from its fruit, and at the same time supply a pulp mill with the stalks discarded when the fruit is harvested. At the present time no bananas are exported from the Philippines, nor is the domestic market as well supplied as it should be, considering how valuable the fruit is as an article of diet.

(Continued on page 60.)

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Sealed proposals will be received at the office of I. H. FRANCIS, Chairman of the Ordnance District Salvage Board, 1710 Market Street, Philadelphia, Pa., until 12 o'clock noon, September 30, 1919, at which time they will be publicly opened and read, for the purchase of the United States Government Explosives Plant "C," located at Nitro, West Virginia, which was constructed by the United States for the manufacture of smokeless powder. Proposals must be for the purchase, either for cash or for part cash and part deferred payments amply secured, and must cover all right, title and interest of the United States in all real estate appertaining to this plant and all equipment, fixtures and personal property thereon and thereunto belonging, except that title to certain fixtures and personal property is reserved to the United States, information regarding which will be furnished prospective bidders on request. All proposals are to be accompanied by a money deposit in the form of a certified check made payable to the Treasurer of the United States in the amount of \$500,000.00. The United States reserves the right to reject any or all bids and to accept that bid which it is deemed will best serve the interests of the United States.

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POWER: 35,000 rated boiler H. P. Generators, 3,000 K. W. Switchboard and distribution, 20,000 K. W. contemplated distribution, 15,000 K. W. from other sources.

LABOR: The labor element of this vicinity is adaptable to the iron, steel, chemical, by-product, glass and kindred industries. The percentage of population averages: Native whites, 89%; negroes, 8%; aliens, 3%.

RAILWAY AND SHIPPING: Ample railway facilities are available by way of the Kanawha and Michigan Railway, Virginia R. R., Chesapeake and Ohio, Baltimore and Ohio and New York Central R. R. The Kanawha River—navigable the year around—furnishes a water route to Pittsburgh, Great Lake ports and the Gulf of Mexico.

RAW MATERIALS: This section furnishes coal of the highest grade, steam and coking; natural gas, high-grade crude petroleum, excellent salt brine, limestone and dolomite. The ground strata is red clay, red and sandy shales mixed with gravel.

COMMUNITY: Approximately 1500 complete portable homes; large barracks and mess houses; Y. M. C. A. buildings, recreation buildings, 400-bed hospital; about 75 permanently constructed executive residences, hotels, boarding houses, dormitories, clubhouses, general and special stores, cafeterias, moving-picture houses and modern 24-room schoolhouse.

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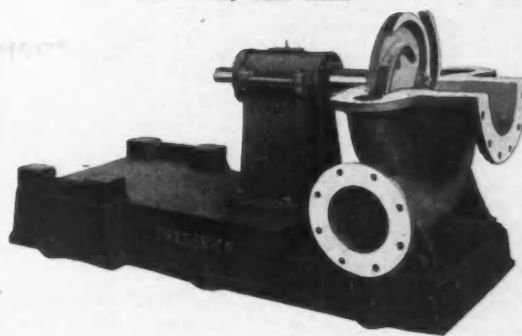
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LOFT DRIED PAPERS
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to demonstrate to you our ability to furnish the best in colored specialties in the shortest possible time, and at prices that must commend themselves to your attention. Our slogan "Service in Specialties" is no idle one, and we have never failed to make good on our promise.

Incidentally, our new Cohoes Mill is turning out WATCO Bond, a new paper that is bound to attract considerable attention in the market. Let us tell you about it?

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3



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Paper and Pulp Exporters

ESTABLISHED IN THIS COUNTRY FOR 14 YEARS

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Dunkirk, Indiana

MANUFACTURERS OF

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TUBES AND CAPS

SINGLE and DOUBLE LINED

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SPECIALTIES, ETC.

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Bleached Easy Bleaching

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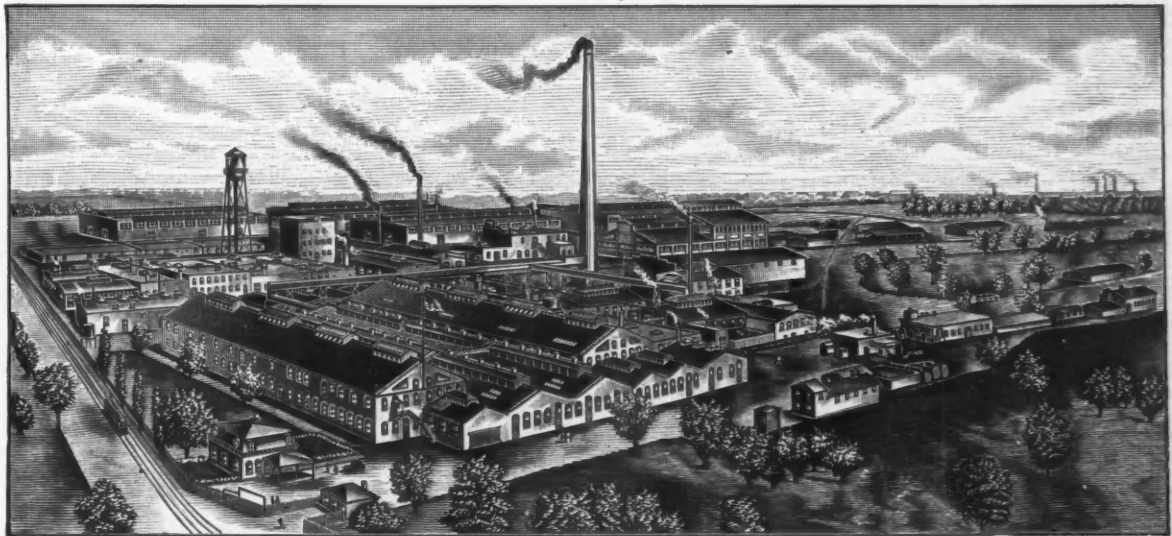
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Mill Blanks, Bogus Bristols, Marble Grained Jute Boards, Clay Coated Box Boards, Binders' Board, Paper Box Board, Pasted Boards, and Paper Board Specialties

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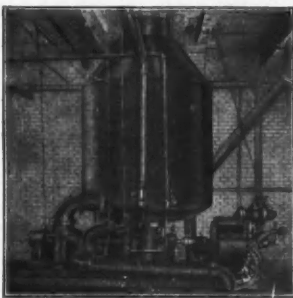
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FOR ALL
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Everett Station, Boston, Mass.



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

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.

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Waterous Engine Works, Co., Ltd., Builders and Selling Agents for Canada, Brantford, Canada.

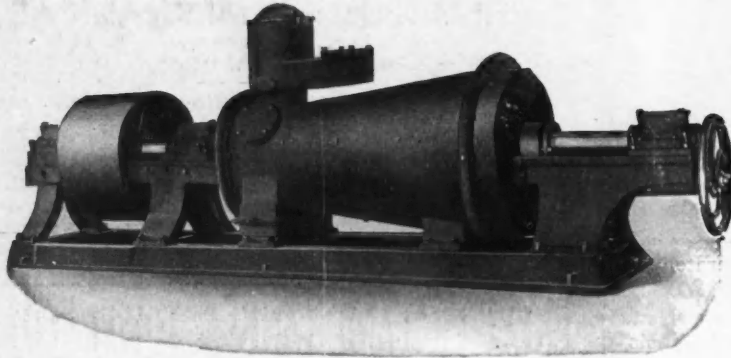
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Our latest Improved Machine, three sizes; belt or direct connected motor driven. All Bearings self-oiling, adjustable and water-cooled. Outside stand fitted with gauge to keep the plug central with the shell.

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The Claflin Continuous Beater

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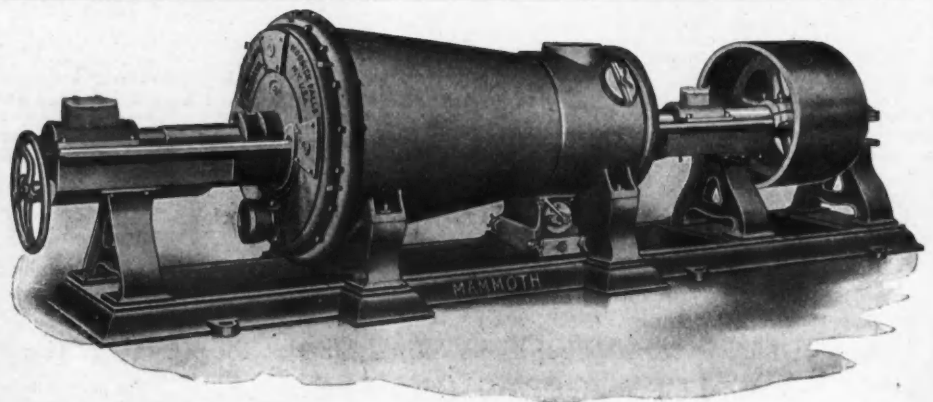


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PACKERS OF ALL CLASSES OF ENGLISH
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WASTE PAPERS, SHAVINGS, NEW AND
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presents a perfect wrapping paper, weight and strength for each wrapping purpose. Made in all weights, from 15 lb. to 100 lb. basis. The one complete, standardized and economical line of wrapping paper sold.

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The tonnage which can be handled in a day by two unskilled men, and the trouble-free, continuous service under severe conditions amply demonstrate the economy in

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The completely enclosed "unit" construction not only insures thorough lubrication, but makes a "Shepard" damp-proof, dirt-proof, "fool-proof" under all circumstances, with practically no maintenance expense. And the flexibility of such crane service in shop and yard, with monorail spurs to distant points, cuts down rehandling costs as well.

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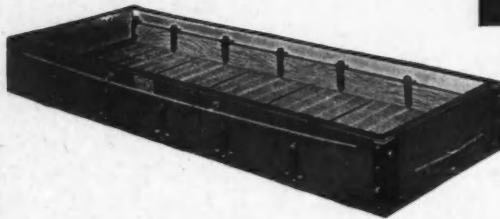


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UNION BRONZE **SCREEN PLATES** ROLLED BRASS
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Old Plates RECLOSED and RECUT to accurate gauge.

UNION BRONZE SCREWS for Screen Plates

UNION BRONZE SUCTION BOX PLATES

Immediate Delivery of the Largest Orders. Satisfaction Guaranteed.

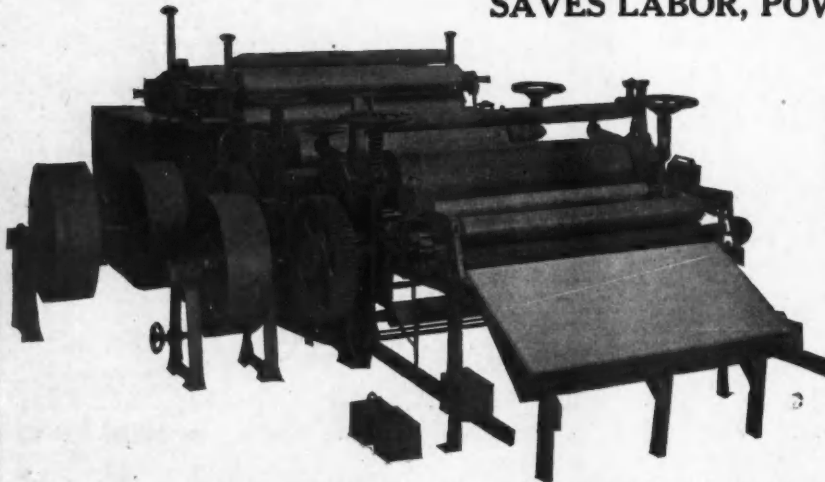
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ROGERS WET MACHINE

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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.

Automatic felt guides.

Handy sheets 33" x 36" automatically deposited in tray at front of machine of a uniform dry test of 47%.

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


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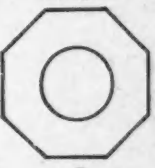
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To obtain definite results in any desired direction in the preparation of paper, not merely a difference of grade, but a difference of kind or variety of **starch** is required.

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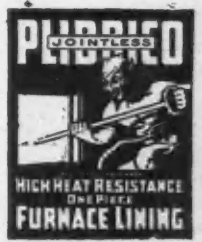


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TRADE MARK

New York Market Review

OFFICE OF THE PAPER TRADE JOURNAL,
WEDNESDAY, August 28, 1919.

Despite the fact that there is more paper moving this week than last, paper prices still have an upward tendency. All orders are at top prices, and jobbers are having difficulty in obtaining any stock. Mills and factories, although they are running at capacity, are from 30 to 90 days behind their contracts.

Export trade is slow, the domestic demand absorbing all the American and Canadian output obtainable. No immediate relief is seen, and prices will probably maintain their high levels, as the foreign demand will absorb any temporary surplus.

News print is still soiling, transient rolls selling now for 5.15, and scarce at that price. Contract news is, of course, still at the Government price of 3.75. There seems little hope for immediate relief, as there are no surplus stocks stored, at least at manufacturing centers.

Book papers are still in strong demand, but show no changes in prices over last week. Immediate delivery of any grade of book paper is apparently impossible. A strong upward tendency is indicated.

Coarse papers are still selling at last week's prices, but demand is strong, and increases are not improbable.

Tissue, too, is stationary, but, like other papers, promises further increase.

The board market remains firm, and prices are steady. A strong demand in most grades, together with scant supplies, promises a firm market.

Ground Wood

Ground wood is still in strong demand, and with the scarcity of news print, promises to maintain its high levels reached in the past few weeks. The supply remains the same, last week's prices of \$28 for eastern, and \$30 for western ground wood still prevailing.

Chemical Pulp

Chemical pulp is still in good demand, all grades maintaining strong prices. Kraft, in particular, is demanded, and has advanced fifty cents over last week's prices, now selling at \$4.50 to \$5, and is hard to get at that price. Bleached sulphite, too, is in strong demand, last week's prices still maintaining, but further increases are indicated. Immediate delivery of Bleached sulphite now brings from 6.25 to 6.50.

Rags

The rag market has been very active this week, prices having increased from an eighth to a quarter of a cent on several grades. Thirds and blues, repacked, are bringing 4½¢, and black stockings, 3½¢. The demand for domestic rags is still strong, and the supply decidedly overdemanded. In the foreign rag market, dark cottons went up twelve cents, now selling for \$2.88. Other prices are strong, but no changes have occurred since last week.

Old Rope and Bagging

Active buying in the old rope and bagging market has been evident this week. Foreign Manila ropes have advanced from \$6.10 to \$6.50 for the better grades, and the poorer qualities have advanced proportionately. Domestic ropes and bagging, too, are quoted at strong prices, showing a healthy demand.

Paper Stock

Despite the fact that the strike in the waste paper houses in New York was settled last week, no marked changes in the paper stock market have occurred. Waste paper, particularly manila and news, are in strong demand, and are bringing good prices, while shavings are steady, at last week's prices.

Twine

No changes have been made in the twine market prices, all

grades selling at top prices. Mills manufacturing twine are hard pressed for supplies and labor, and are taking on no new contracts or orders.

PRODUCTION OF NEWS PRINT

(Continued from page 28.)

achusetts, Rhode Island and Vermont; the *Eastern States* include Delaware, the District of Columbia, Maryland, New Jersey, New York and Pennsylvania; the *Northern States* include Illinois, Indiana, Michigan and Ohio; the *Southern States* include Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia and West Virginia; the *Middle West* includes Arizona, Arkansas, Colorado, Idaho, Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, Nevada, North Dakota, Oklahoma, South Dakota, Texas, Utah, Wisconsin and Wyoming; the *Pacific Coast* includes California, Oregon and Washington.

Publishers' stocks decreased 5,158 tons during the period. Sixty-five publishing concerns held about 49 per cent of the total stocks at the end of the month.

Mill Prices to Publishers.

The weighted average price of contract deliveries from domestic mills to publishers during July, 1919, f. o. b. mill in carload lots for standard news in rolls was \$3.646 per 100 pounds. This weighted average is based upon July deliveries of more than 70,000 tons on contracts involving a total tonnage of more than one million tons of paper manufactured in the United States. These contracts, most of which extend until December 31, 1919, include a few long-term contracts made prior to the war at very low prices.

The weighted average contract price based on deliveries from Canadian mills of more than 21,000 tons of standard roll news in carload lots f. o. b. mill in July, 1919, was \$3.574 per 100 pounds. This weighted average is based upon the July deliveries on contracts involving about 180,000 tons of Canadian paper. The greater number of these are short-term contracts covering the year 1919. The weighted average July market price of standard roll news in carload lots f. o. b. mill based upon domestic purchases totaling more than 5,000 tons was \$3.72 per 100 pounds.

News of Personal Interest

J. E. Gallagher, president Beaver Brook Paper Mills, Inc., Danbury, Conn., accompanied by W. H. Green of Danbury, are spending some time at Mr. Green's farm in St. Petersburg, Fla. They made the trip by boat.

Isaac Allen of Phoenix, N. Y., has taken the place of Mr. Ulrich Ulrich as superintendent of the Fiske Paper Company, Hinsdale, N. H.

The American Steam Conveyor Corporation, of Chicago, announces the appointment of Morton McI. Dukehart & Co., as its representative in Baltimore and the surrounding territory, which includes all of Maryland, and the District of Columbia, and a few counties in Pennsylvania, Delaware, West Virginia, and Virginia. This concern consists of Mr. Dukehart, and Mr. E. S. Denise—both power plant engineers of long standing, and sales engineers of considerable ability. They have an enviable reputation and their services undoubtedly will strengthen considerably the sales force of the American Steam Conveyor Corporation.

Western Waxed Paper Company Incorporates

[FROM OUR REGULAR CORRESPONDENT.]

PORTLAND, Ore., August 20, 1919.—The Western Waxed Paper Company, with a capital stock of \$250,000, has filed articles of incorporation here. The incorporators are Andrew Christ, Jr., A. F. Adams and W. C. McCulloch and the principal office of the company will be located in Portland. The purpose of the corporation is to establish and conduct plants for the manufacture and sale of waxed papers.

Market Quotations

Paper Company Securities

New York Stock Exchange closing quotations, August 26, 1919:

Table with columns: Stocks, Bid, Asked. Lists securities like American Writing Paper Company, International Paper Company, etc.

Table with columns: Paper, Price. Lists various paper types like Bonds, Ledgers, Writing, etc.

Table with columns: Foreign Rags, Price. Lists items like New White Cuttings, Unbleached Cottons, etc.

Table with columns: Mechanical Pulp, Price. Lists items like No. 1 f. o. b. Mill, etc.

Table with columns: Chemical Pulp, Price. Lists items like Sulphite (Foreign), etc.

Table with columns: Domestic Rags, Price. Lists items like Bleached, Easy Bleaching, etc.

Table with columns: Domestic Rags, Price. Lists items like India, No. 6 basis, etc.

Table with columns: Jute Wrapping, Paper Makers' Twine, Manila Rope, etc.

Table with columns: Old Waste Papers, Price. Lists items like Shavings, Hard White, etc.

Table with columns: Paper, Mill Price to Jobbers. Lists various paper grades and prices.

Table with columns: Paper, Price. Lists items like Bonds, Ledgers, Writings, etc.

Table with columns: Roofing Rags, Bagging, Price. Lists items like Gunny No. 1, etc.

Table with columns: Soft White, Colored, Flat Stock, etc. Lists various paper products and prices.

Table with columns: CHICAGO, Old Papers, Price. Lists items like Straw Board, Filled Pulp Board, etc.

Table with columns: PHILADELPHIA, Paper, Price. Lists items like Bonds, Ledgers, Writings, etc.

Table with columns: Old Papers, Rags, Price. Lists items like No. 1 Hard White, No. 2 Hard White, etc.

(Continued on page 62.)

Imports and Exports of Paper and Paper Stock NEW YORK, BOSTON, PHILADELPHIA AND OTHER PORTS

NEW YORK IMPORTS

FOR THE WEEK ENDING AUGUST 26, 1919.

Cigarette paper	2,286 cs.
Filter paper	209 cs.
Printing paper	23 cs.
Drawing paper	4 cs.
Hangings	2 bls.
Wall paper	2 cs.
Miscellaneous paper	29 cs.

PAPER

American Tobacco Co., La Lorraine, Havre, 32 cs. cigarette paper.
American Tobacco Co., La Touraine, Havre, 20 cs. cigarette paper.
American Tobacco Co., Niagara, Bordeaux, 636 cs. cigarette paper.
R. J. Reynolds, Niagara, Bordeaux, 1,600 cs. cigarette paper.
J. Manheimer, Niagara, Bordeaux, 144 cs. filter paper.
E. Fougere, Niagara, Bordeaux, 52 cs. filter paper.
McKesson & Robbins, Defiance, London, 2 cs. filter paper.
Reeve, Angel & Co., Defiance, London, 11 cs. filter paper.
B. F. Drakenfeld & Co., Caronia, Liverpool, 6 cs. printing paper.
Oxford University Press, Caronia, Liverpool, 17 cs. printing paper.
Favor, Ruhl & Co., Manhattan, London, 4 cs. drawing paper.
A. E. Bulkeley, Baltic, Liverpool, 2 bls. paper hangings.
F. L. Kraemar, Anglo Chilean, London, 2 cs. wall paper.
Moller & Koherits, Noordam, Rotterdam, 29 cs. paper.

CASEIN

Kalbfeisch Corp., Canadian Pioneer, Buenos Aires, 14,000 bags, 770,000 kilos.

WOODED PULP

J. Andersen & Co., United States, Copenhagen, 1,800 bls.
A. J. Pagel & Co., United States, Copenhagen, 2,000 bls.
Tidewater Paper Mills Co., Schr. Waltham, Liverpool, N. S., 7,454 bls., 745 tons.
Tidewater Paper Mills Co., Schr. G. E. Klinck, Liverpool, N. S., 7,493 bls., 749 tons.
Tidewater Paper Mills Co., Schr. S. W. Smith, Liverpool, N. S., 3,176 bls., 317 tons.
Tidewater Paper Mills Co., Schr. T. H. Lawrence, Liverpool, N. S., 556 tons.

BLEACHED SULPHITE

J. Andersen & Co., United States, Copenhagen, 1,500 bls.

CHINA CLAY

Paper Makers Chemical Co., Alanthus, Fowey, 1,036 tons, 9 cwt.
Paper Makers Chemical Co., Taizau Maru, Fowey, 20 tons, 15 cwt.
J. Richardson & Co., Taizau Maru, Fowey, 217 tons, 4 cwt.
Baring Bros. & Co., Ltd., Taizau Maru, Fowey, 106 tons, 9 cwt.
Hamhill & Gillespie, Taizau Maru, Fowey, 45 tons, 8 cwt.
Moore & Munger, Taizau Maru, Fowey, 160 tons, 6 cwt.
Luke Knowles, Taizau Maru, Fowey, 17 tons.
Luke Knowles, Hokah, Fowey, 33 tons.
Baring Bros. & Co., Ltd., Hokah, Fowey, 301 tons, 17 cwt.
J. Richardson & Co., Hokah, Fowey, 97 tons, 15 cwt.
J. W. Higman, Inc., Hokah, Fowey, 321 tons, 6 cwt.
Moore & Munger, Hokah, Fowey, 472 tons, 19 cwt.
Perkins, Goodwin & Co., Hokah, Fowey, 155 tons, 5 cwt.

Hamhill & Gillespie, Hokah, Fowey, 93 tons, 1 cwt.
Paper Makers Chemical Co., Hokah, Fowey, 40 tons, 2 cwt.

RAGS, BAGGING, ETC.

Baring Bros. Co., Ltd., Worcester, Antwerp, 193 bls. rags.
J. B. Moors & Co., Worcester, Antwerp, 374 bls. rags.
R. F. Downing & Co., Anglo Chilean, London, 218 bls. rags.
Certainteed Products Co., Anglo Chilean, London, 147 bls. rags.
A. Salomon, Inc., Niagara, Bordeaux, 1,303 bls. rags.
Atterbury Bros., Niagara, Bordeaux, 128 bls. rags.
E. Butterworth & Co., Noordam, Rotterdam, 205 bls. rags.
R. F. Downing & Co., Noordam, Rotterdam, 835 bls. rags.
Castle, Gottheil & Overton, Noordam, Rotterdam, 541 bls. rags.
E. J. Kellar Co., Noordam, Rotterdam, 369 bls. rags.
Salomon Bros. & Co., Kasama, Glasgow, 412 bls. rags.
Wilkinson Bros. & Co., Kasama, Glasgow, 88 bls. bagging.
E. Butterworth & Co., Belgic, Liverpool, 544 bls. bagging.
R. F. Downing & Co., Anglo Chilean, London, 53 bls. bagging.
Wilkinson Bros. & Co., Noordam, Rotterdam, 524 bls. bagging, 317 bls. shoppery.
Guaranty Trust Co., Baltic, Liverpool, 130 bls. paper stock.
Maurice O'Meara, Belgic, Liverpool, 239 bls. paper stock, 250 bls. hide cuttings.
E. J. Keller Co., Rapidan, Dundee, 237 bls. jute and flax waste, 10 bls. waste, 33 bls. rags.
E. J. Keller Co., New Amsterdam, Rotterdam, 721 bls. rags.
E. J. Keller Co., Martensdyk, Rotterdam, 310 bls. rags.

PHILIPPINE PAPER MATERIALS

(Continued from page 46.)

Maguey Waste Growing in Importance

Maguey (*Agave cantala*) and sisal are being extensively planted in several sections of the Philippines. These plants yield a fiber that is well known to the cordage world. This fiber is extracted by retting at present, but a movement is on foot to revolutionize the methods of recovering it by the introduction of machines. When maguey and sisal fiber is extracted by machinery there is a considerable quantity of waste that is comparable to abaca waste. The maguey, owing to the nature of the leaf of the plant, is considerably more bulky than abaca waste. Richmond reduced the weight and bulk of this waste by boiling it with lime in the localities where it was obtained.

Minor Sources of Paper Stock

Bowstring hemp (*Sanseveria zeylanica*) is found in many parts of the Archipelago. It is not, however, of commercial importance. It has possibilities and might be cultivated for its fiber, which is not unlike that of maguey.

Coconut coir (husk fiber) might be produced in abundance in all of the coconut regions. At the present time this by-product of the coconut industry is almost entirely neglected. It might be utilized very profitably in the manufacture of paper.

The leafstalks of the nipa palm contain valuable paper substance. At present little or no use is made of these, though a vast amount of the nipa leaf is used in almost every section of the islands for thatch and siding for houses.

The buri palm is widely used in the manufacture of hats and other handicraft products, and yields an immense amount of waste in the process of extracting the material utilized for these purposes. No small part of this waste might be employed in the making of paper stock.

The milling waste of certain soft Philippine woods is known to

be valuable as a source of paper stock. Richmond made successful experiments with lauan, kupang, and similar varieties.

It is not conceivable that any of the minor sources of paper pulp mentioned would alone yield enough material to keep a mill in operation, but, nevertheless, they are not altogether negligible at a time when the world appears to be facing a shortage of such substances.

Raw Materials for Paper-Making

It is the opinion of the director of the Bureau of Science that caustic soda, sodium sulphite, and the bleaching powder required in the manufacture of paper could be manufactured in the Philippines were there a demand for them. At present all such chemicals are imported. There is a good prospect for the establishment of a plant for the manufacture of glass from local raw materials in the islands. Such a plant would require caustic soda, and as a paper plant would also probably use caustic soda, the two factories would support a caustic soda manufacturing plant.

Lime is plentiful in many places in the Philippines. Limestone is quarried at Binangonan, on Laguna de Bay, in Rizal Province. At Malabon, a short distance from Manila, coral limestone from marine shells is burned to supply the Manila market.

The present output of Binangonan quarries is probably not over 1,000 tons per year. The product is water-slaked and is employed in Manila for making mortar. This lime is said to be very fat and to swell to three times its original volume when slacked. The price at the quarry runs from 60 cents to 70 cents per cavan (1 cavan = about 80 pounds) for quicklime, and from 20 cents to 30 cents per cavan for slacked lime. The cost of transporting the lime to Manila is about 7 cents per cavan. The profit on the quicklime is about 30 cents per cavan, and that on the slacked lime about 8 cents per cavan. The methods employed are the very crudest. Under modern methods of production an abundance of quicklime could probably be obtained at very reasonable prices.

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Miscellaneous Markets

OFFICE OF THE PAPER TRADE JOURNAL,
WEDNESDAY, August 27, 1919.

ALUM.—A good volume of alum is still moving under a steady demand from consumers. Both the lump and the powdered grades are being sold in large quantities, but the freedom with which stock is being offered by both manufacturers and second hands, has kept prices at their former levels. Lump ammonia is now quoted at 4@4.25c. and powdered alum is selling for 4.25@4.50c. per pound.

BLANC FIXE.—Manufacturers of blanc fixe report that the demand for this commodity continues strong, and sales involving good volumes of stock are constantly being made. Prices have been steady this week, and 4.25@4.50c. per pound is still being quoted for dry blanc fixe, while blanc fixe in pulp form is selling for \$60@65 per ton.

BLEACHING POWDER.—Bleaching powder continues in good demand, and manufacturers report that spot lots which have been in the hands of second hands are now almost entirely depleted. This fact has lent a somewhat firmer tone to the market, and though quotations are now no higher than they were a week ago, it is believed that they may show an advance in the near future. Manufacturers are quoting 2@2.25c. for bleach for domestic use, and 2.25@2.50c. f. a. s. for bleach for export.

BRIMSTONE.—The brimstone market continues steady. Production and shipments have been of normal proportions this week, and there have been no unusual developments in the market. Quotations are still on a basis of \$18 per ton for brimstone for domestic use, and \$20 per ton f. o. b. mine for brimstone for export.

CASEIN.—A good demand is still in evidence for casein, and stocks are being disposed as fast as they are manufactured and imported. There has been no advance in quotations this week, but the market is still displaying a firm upward tendency. Casein is now being quoted at 14@16c.

CAUSTIC SODA.—The demand for caustic soda has greatly decreased this week, but as yet quotations have shown no tendency to decline. The heavy export demand which has been in evidence for caustic has greatly fallen off, but it is believed, that export buying will soon be resumed. Quotations for caustic soda basis 60 per cent, are now at 2.75c. Spot caustic is being quoted at 3.25c. and caustic soda for export is selling for 3.40c.

CHINA CLAY.—Production and shipments of clay have been of normal proportions this week, and the market has been steady. Producers report that there is a fairly active demand for all grades and a good volume of stock is moving. Quotations are now as follows: crude domestic, \$7.50@9.50, washed at the mine \$11@12.50. Foreign clays range in price from \$15@20 according to the grade.

ROSIN.—There has been but little change in the rosin market this week. Prices have shown only a slight difference over last week's levels, and both producers and buyers are marking time pending further developments. Papermakers' grades are now being quoted as follows: E, 18.25; F, 18.30; G, 18.50.

SATIN WHITE.—Manufacturers of satin white report that they are making a large number of sales of this commodity at present and the market is firm. Quotations are steady and at present show no tendency to either advance or decline. The price being quoted by manufacturers is 2.25@2.50c. per pound.

STARCH.—For carload lots, freight prepaid to New York City, the following quotations are made 100 pounds: Globe starch, in bags, \$5.87; in bbls. \$6.09. Buffalo starch, in bags, \$6.02; in bbls., \$6.24. Eagle finishing starch, in bags, \$6.87. Crystal T. B. starch, No. 90, fluidity (hand packed), in bags, \$6.97; in bbls., \$7.33. Crystal T. B. starch, No. 90, fluidity (machine packed), in bags, \$6.92; in bbls., \$7.18.

SODA ASH.—An active demand continues for soda ash, and manufacturers report that a large number of sales and shipments are being made daily. Stocks on hand are sufficiently large to cope with the demand and difficulty is experienced in obtaining shipments. Quotations for the 58 per cent grade are steady at 1.90c. in bags, and 2c. in bbls.

SULPHATE OF ALUMINA.—There have been no new developments in the sulphate of alumina market this week. Surplus stocks in the hands of jobbers have not entirely been disposed of as yet, and for that reason the long expected advance in quotations has not taken place. Commercial sulphate of alumina is now being quoted at 1.70@1.90c. and the iron free grade is selling for 2.65@2.85c.

TALC.—A strong demand is felt for talc at present, and dealers report that stocks are moving in large volumes to consumers. The active demand has led to slightly higher prices this week, and producers are now quoting \$15@18 per ton according to the grade purchased.

Subcommittee to Investigate News Print

[BY TELEGRAPH TO THE PAPER TRADE JOURNAL]

WASHINGTON, D. C., August 27, 1919.—The Senate Committee on Manufacturers has just authorized Senator LaFollette to appoint a sub committee of five to investigate the news print industry, as called for by the Reed resolution passed last week. Of the committee it is certain that Senators LaFollette and Reed will be members. Other members of the committee will be appointed in the next few days. It is not expected that any hearings will be held for two weeks to allow the sub committee time to go over testimony taken by the Federal Trade Commission and by the courts.

Market Quotations

(Continued from page 59.)

TORONTO

[FROM OUR REGULAR CORRESPONDENT.]

Paper		Sulphite, easy bleach-	
(Mill Prices to Jobbers)		ing	
Bond—		Sulphite, news grade	87.50@ 90.00
Sulphite	13 1/2 @ —	Sulphite, bleached	70.00@ 75.00
Light tinted	14 1/2 @ —	Sulphite	110.00@115.00
Dark tinted	16 @ —	Sulphate	87.50@ 90.00
Ledgers	18 @ .30		
Writing	13 @ —	Old Waste Papers	
News, f. o. b. Mills—		(In carload lots, f. o. b. Toronto)	
Rolls (carloads) ..	\$3.45 @ —	Shavings—	
Rolls (l. c. l.)	3.52 1/2 @ —	White Env. Cut..	4.30 @ —
Sheets (carload) ..	3.80 @ —	Soft White Book	Shavings
Sheets (l. c. l.)	3.92 1/2 @ —	White Bl'k News	1.45 @ —
Book—		Rock and Ledger—	
No. 1 M. F. (car-		Flat Magazine and	
loads)	9.75 @ —	Book Stock (old)	1.50 @ —
No. 2 M. F. (car-		Light and Crum-	
loads)	9.00 @ —	pled Book Stock	1.25 @ —
No. 3 M. F. (car-		Ledgers and Writ-	
loads)	8.25 @ —	ings	2.20 @ —
No. 1 S. C. (car-		Solid Ledgers ..	2.45 @ —
loads)	10.25 @ —	Manilas—	
No. 2 S. C. (car-		New Manila Cut..	2.40 @ —
loads)	9.25 @ —	Printed Manilas.	1.15 @ —
No. 1 Coated and		Kraft	3.00 @ —
litho.	12.75 @ —	News and Scrap—	
No. 2 Coated and		Strictly Overissue	.95 @ —
litho.	11.75 @ —	Folded News....	.80 @ —
No. 3 Coated and		No. 1 Mixed Pa-	
litho.	11.00 @ —	pers .....	.70 @ —
Coated and litho.,		Domestic Rags—	
colored	13.00 @15.00	Price to mills, f. o. b. Toronto.	
Wrapping—			
Grey	5.25 @ —	No. 1 White shirt cuttings	.14
No. 3 Manila	5.60 @ —	No. 2 White shirt cuttings	.12
No. 1 Manila	7.35 @ —	Fancy shirt cuttings....	.09 1/2
Fibre	7.35 @ —	No. 1 Old whites.....	.06 1/2
Kraft, M. F. or		Thirds and blues.....	.04 1/2
M. G.	9 @ —		Per cwt.
Pulp		Black stockings.....	3.25
(f. o. b. Mill.)		Roofing stock No. 1....	3.15
Ground Wood	\$30.00@ \$32.00	Roofing stock No. 2....	3.00
		Gunny bagging	3.75
		Manila rope	3.50

The Mathieson Alkali Works, Inc.

WORKS AT

SALTVILLE, VIRGINIA, and at
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“Eagle-Thistle” Brand BLEACHING POWDER

HIGH TEST

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

LIQUID CHLORINE

Pure, anhydrous, in improved and convenient packages.

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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

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Want and For Sale Advertisements

HELP WANTED

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 taken.

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 taken.

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.

CASH MUST ACCOMPANY ORDER.

WANTED—A good back tender on water finished fibre. Two tour mill. Speed 350 to 400 feet. Address Box 1391, Paper Trade Journal. **tf**

WANTED—First class Beaterman on Box Boards. Good working conditions, pleasant location, new mill and good wages. Address, Box 1469, care Paper Trade Journal. **A28**

WANTED—Machine Tenders, experienced on Roofing Felt. Fifty ton mill, three tours, steady employment. None but reliable men who can produce results need apply. State experience and wages desired. Address, Box 1463, care Paper Trade Journal. **A28**

TOUR BOSS WANTED—One who understands board machine. Also beaterman wanted on box boards. Address, Box 1465, care Paper Trade Journal. **A28**

WANTED—Wax foreman for plant making light weight waxed papers. An unusual opportunity is open for a man with ability to develop the manufacturing department. Address, The Crystal Paper Co., Middletown, Ohio.

WANTED—Beater Engineer for one-machine board mill in Ohio, running on combination box board. Married man preferred. Address, Box 1469, care Paper Trade Journal.

WANTED—Man familiar with the manufacture of gummed paper and cloth. Knowledge of waterproofing papers also desirable. Excellent proposition for right man. Negotiations strictly confidential. Address, Box 1470, care Paper Trade Journal. **S29**

WANTED—Superintendent for twenty-ton Board Mill and ten-ton Ground Wood Mill, manufacturing container board and jute specialties. Reply Roanoke Fire Board Company, Roanoke Rapids, N. C. **A28**

LARGE PAPER HOUSE in Chicago wants salesman who has been selling hotels and institutions, for toilet paper and general lines. Liberal proposition to right man. Address, Box 1490, care Paper Trade Journal. **S4**

WANTED

One (1) 96" to 100" face Calender Stack. The Shartle Brothers Machine Co., Middletown, Ohio.

S-4

HELP WANTED

PAPER HOUSE opening office in Chicago wants high class salesman with large following among consuming manufacturers. Splendid proposition for right man. Address, Box 1491, care Paper Trade Journal. **S4**

WANTED—Boss millwright. Mill located Middle West. Must be able to manage help and get results. Address, Box 1498, care Paper Trade Journal. **A28**

WANTED—A Beaterman for Container Board Mill. Address Box 1506, care Paper Trade Journal. **S4**

WANTED—Two backtenders on book paper; eight hours; 50c. per hour. Apply Dill and Collins Co., Richmond and Tloga Sts., Philadelphia, Pa.

WANTED—A machine tender and a back tender; long tour. Running Box Board, Middle West. First class men paid for, first class men wanted. Address Box 1515, care Paper Trade Journal. **S4**

WANTED—Night Superintendent of experience on crepe paper for Towels and Toilet. Also an experienced man on Hudson and Sharp Toilet and Towel Machines. Windsor Locks Paper Mill, Inc., Windsor Locks, Conn. **A28**

WANTED—An ambitious young man with initiative and imagination to sell paper goods. Territory on start, Metropolitan District. Experience in this line preferred, but not absolutely essential. Good salary on start with excellent future for right man. Envelopes, Paper Bags, Folding Boxes and Specialties in Paper. Open and large field selling for a manufacturer. Address, fully, Box 1525, care Paper Trade Journal. **A28**

WANTED—In small mill in Middle West, making 20-lb. bread wrappers, one good cylinder machine tender, one good back tender, one beaterman, one operator for a Mayer Wax machine, one operator for Cameron Winder, also one Union pressman for Kidder Rotary Press, on bread wrappers. Good position for right party. References required with first letter. Address, Box 1526, care Paper Trade Journal. **S11**

WANTED—By large firm, manager for western branch paper and woodenware house. This is an opportunity for an ambitious, highly capable man, whose record is clean and successful, to secure interest in a profitable business. No capital required. Address, Box 1527, care Paper Trade Journal. **A28**

WANTED SUPERINTENDENT AND TOUR BOSSES FOR

An aggressive wrapping and Board Mill. Will pay highest wages for experienced and competent men. Address Box 1485, care Paper Trade Journal. **A-28**

WANTED MILL SALESMAN ON GREASE-PROOF PAPERS

Must be familiar with the trade in this specialty and able to make good. Apply by letter only. Communications confidential. Address, Box 1487, care Paper Trade Journal. **A-28**

HELP WANTED

WANTED—Paper Salesman calling on paper box trade. State full particulars, salary desired, etc., to Box 1529, care Paper Trade Journal. **S4**

MIDDLE STATES MILL has opening for Beaterman experienced in coloring. Only capable men need apply. Three tour system. Furnish references when making application. Address, Box 1530, care Paper Trade Journal. **S11**

WANTED—First class Beater Engineer for Mill making rope and jute papers. Eight hours. Address, Box 1531, care Paper Trade Journal. **S11**

WANTED

First class Paper Mill Machinery Sales Engineer. One who thoroughly understands the business and knows the trade. Reply to Box 1524, care the Paper Trade Journal. **S-4**

PAPER SALESMEN

We desire to secure two alert, ambitious salesmen to sell in New York for a large paper house with extensive stock, preferably with paper sales experience. Answer giving age and experience, also salary or commission expected. Replies will be treated in strictest confidence. Address Box 1496, care Paper Trade Journal. **tf**

FOR SALE

BOARD MACHINE—six cylinder 36" x 80", 5 baby presses, three presses, 61 dryers, two stacks calenders, duplex cutter and Marshall drive.
PAPER MACHINE—1 72" Fourdrinier, two presses, 15 dryers, 36" x 69", Marshall drive
BOARD MACHINE—five cylinders, 30" x 72", three presses, 23 dryers, 36" x 66", calenders, cutter and Marshall drive.
PULP DRYING MACHINE—two molds, 30" x 77", three presses, 37 dryers, 48" x 68", Marshall drive.
MACHINE CALENDERS—1 84" nine roll, 1 82" nine roll, 1 72" nine roll, 1 68" five roll, 1 48" five roll, 1 37" five roll.
SUPER CALENDERS—1 62" Norwood, 1 60" Norwood cotton rolls, 1 53" Holyoke, 1 45" Norwood, 1 43" Holyoke.
SLIVERS AND WINDERS—1 127" Kidder, 1 108" Kidder, 1 102" Langston, 1 60" Kidder, 1 38" Kidder.
PAPER SHEET CUTTERS—1 112" Finlay, 1 108" Horne, 1 104" B & C, 1 84" Helmi duplex, 1 62" Horne, 1 53" Finlay, 1 48" Finlay, 1 42" Finlay.
REAM CUTTERS—1 50" Dayton Seybold, 1 48" Acme, 1 48" Sheridan, 1 36" Sheridan.
BEATERS—2 52" x 52" Hornes, 1 53" x 52" Emerson, 1 48" x 48" Horne, 1 48" x 48" Downingtown, 1 48" x 66" Umpherston, 1 No. 1 Clafin.
JORDANS—1 Jones Wagw Majestic with base, 1 Emerson "Special", 1 Noble & Wood with base, 1 Emerson with base, 2 Smith & Winchester without base.
PUMPS—1 Deane triplex sewer water pump 10" x 10", 2 Deane triplex staff pumps 8" x 8", 2 Pusey & Jones double staff pumps 6" x 10", 1 10" Worthington centrifugal, 3 4" centrifugals, 3 3" centrifugals.
SCREENS—2 ten plate packers.
WET MACHINE—3 84" Sandy Hill Iron & Bram, 1 73" Ragley & Sewall hydraulic.
BOARD CALENDER—1 Horne two rolls 48" x 48".

FRANK H. DAVIS

175 Richdale Ave., Cambridge, Mass

HELP WANTED

WANTED—Machine tenders, back tenders and beatermen in mill making Chip, Board and Wrappers, near Philadelphia. Address, Box 1532, care Paper Trade Journal. S11

WANTED—Manager for one machine Mill making medium and heavy weight wrapping. Correspondence confidential. Address, Box 1533, care Paper Trade Journal. S11

PAPER EXPORT MANAGER—Old established exporters have exceptional opening for high class executive to take full charge of well developed paper department. Knowledge of Spanish and Portuguese preferred. State age, experience and remuneration expected. Strictly confidential. Address, Box 1534, care Paper Trade Journal. A28

MACHINE TENDER, Back Tender, Finishers, for a cylinder machine mill making Chip, News, and Vat Line Boards; capacity 45 tons per 24 hours. Mill located near New York City. Steady position for steady, sober and industrious men. Address, Box 1535, care Paper Trade Journal. S4

WANTED—One Head Beater Engineer, large two machine Board Mill in Middle west. Good pay and bonus. Address, Box 1536, care Paper Trade Journal. S4

WANTED—First class Harper Fourdrinier Machine tender, back tender and winderman for New Tissue Mill which is ready to start up. Must be steady and sober and able to furnish references from last employer. Apply immediately to New Tissue Mill, Box 1537, care Paper Trade Journal. S4

WANTED—Superintendent for one machine felt mill. To receive consideration, an applicant must have had experience in the manufacture of roofing papers and must have the ability to build up a good mill organization. Full references necessary. Address, Box 1538, care Paper Trade Journal. S4

WANTED—For Northern New York Mill—Acid Macker, "Jenssen System"; Sulphite Cook, Three Digesters; Stock Running Foreman; Cook's Helpers and Wet Machine Tenders. Standard wage scale. No labor trouble. State experience and where worked. Address, Box 1539, care Paper Trade Journal. S4

WANTED—Several First class Draftsmen, familiar with Paper and pulp machinery. Address, Box 1540, care Paper Trade Journal. S4

WANTED—Machine Tender for Book and Writing Mill. Apply to Toronto Paper Mfg. Co., Cornwall, Canada. A28

WANTED—Boss Machine Tender for a one machine Harper tissue mill in Pennsylvania. Apply by letter, giving experience, age and wages desired. Address Box 1511, care Paper Trade Journal. A28

WANTED—Machine tender for Harper tissue mill, two tours, 55c. per hour. Apply by letter giving experience, age, and whether married or single. Address Box 1512, care Paper Trade Journal. A28

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.

HELP WANTED

WANTED—A machine tender for wet machines on Binders Board. Good pay, steady employment. American Seat Corporation, 540 Van Alst Ave., Long Island City. S11

WANTED—Machine Tender on rope stock. Three cylinder machine running on Cement and Lime sack paper. Man must be steady, sober and industrious. This is a good position and prefer a man who will locate here. Address, Box 1553, care Paper Trade Journal. S11

SITUATIONS WANTED

A SUPERINTENDENT having fifteen years' experience on Board, Wrapping, Roofing and Bag Papers, wishes a position as day or night boss. Can furnish good references. Address, Box 1433, care Paper Trade Journal. 124

SUPERINTENDENT wishes position. Have had twenty years experience on all kinds of box boards, mill wrappers and building papers. All around mill man and can get results. Address, Box 1472, care Paper Trade Journal. A28

SALESMAN, married, age thirty, seeks connection preferably with mill or reputable jobbing house in selling or executive capacity. Location no object providing good opportunity and future. Nine years' experience with mills covering all grades pulp, paper, board and specialties. Thoroughly familiar with qualities, grades, values and sources of supply. Have covered entire country several times. Wide acquaintance among trade. Best of credentials. Address, Box 1439, Paper Trade Journal. A28

WANTED—Superintendent now employed open for engagement. Experienced on Book, Writings, Fibre and Tissue Paper. Address, Box 1451, care Paper Trade Journal. A28

SUPERINTENDENT open for engagement with mill making Box Board Container or Bristol. One that can get results. Best of references. Address, Box 1474, care Paper Trade Journal. A28

SUPERINTENDENT desires to make a change. Ten years experience. Experienced on Bonds, Loft and Machine Dried Bonds, Ledgers, Light Papers and Flat Writing. American credentials. Address, Box 1476, care Paper Trade Journal. S4

MACHINERY FOR SALE

USED UP TO THE MINUTE—NOW READY FOR DISPOSAL

- One 22x40—450 H. P. Corlis Engine.
 - One small Dillon Jordan.
 - One Reeves No. 11 Class F Transmission.
 - Two 36" Cylinder Faces 102" one Vat.
 - Four 12" Couch Rolls 104" Face.
 - Two 10" Primary Baby Press Rolls 105" Face.
 - One 16" Heavy Baby Press Rolls 105" Face (New).
 - Two 16" Iron Heavy Baby Press Rolls 105" Face.
 - Two 14" Iron Heavy Baby Press Rolls 105" Face.
 - Four 5 plate Screens, 2 sets No. 40 Screen Plate.
 - 9 Cylinder Faces, 114"x102", No. 14 and No. 40.
 - 2 100 H. P., 2 150 H. P. Gas Engines.
 - 1 Iron Storage Tank 8' Diam. x 28' 9" Long.
 - 1 Open Exhaust Boiler Feed Water Heater.
 - 1 225 Diesel Oil Engine.
 - 50,000 ft. 2" to 8" Line Pipe.
- Fort Wayne Corrugated Paper Co.
Fort Wayne, Ind. 9-28

SITUATIONS WANTED

A YOUNG, AGGRESSIVE and responsible sales agency seeks permanent mill connections, particularly with manufacturers of Kraft and Book. Address, Box 1482, care Paper Trade Journal. tf

POSITION WANTED as Buyer or Assistant, Manager or Assistant, by an A-1 Paperman with fifteen years' experience as Buyer and Manager of Paper Department of Wholesale House. Exceptional executive ability. First class references. Will consider mill connection. Address, Box 1484, care Paper Trade Journal. A28

EXPERIENCED FOREMAN would like change. Coated papers or Book and Writing Mill. Calenders, finishing end or both. Two years' experience Traveling Salesman. Address, Box 1500, care Paper Trade Journal. A28

WANTED—Position as Mechanical Superintendent, by practical man, experienced in both Construction and Maintenance of paper mills. Correspondence solicited. Satisfactory references furnished. Address Box 1517, care Paper Trade Journal. S11

EXPERIENCED WOOD PULP salesman seeks connection with progressive concern with opportunity for development. Address Box 1519, care Paper Trade Journal. S4

GROUND WOOD man desires position as Superintendent or Foreman in charge of pulp manufacturing. Address Box 1523, care Paper Trade Journal. A28

POSITION as Master Mechanic wanted. Age 40, eighteen years experience in maintaining and installing paper mill machinery. Can furnish good credentials. Address Box 1522, care Paper Trade Journal. S4

FOR SALE

- BEATERS**—One 61"x48", Five Jones, One Downington, Two Horne, One 60"x60", Several 72"x44", Two Clafin Rolling Engines.
- BED PLATES**—Circled to diameter of roll.
- CALENDERS**—One 1 roll stack 72" face, Two 9 roll stacks 72" face, One 9 roll 63" face, One 9 roll 84" face.
- COATERS**—Two 56" Waldron machines.
- CUTTERS**—Two 45" Finlay cutters newly rebuilt with brand new Hamblet expansion pulley drive, 36" Sanyon cutter, 35" guillotine cutter.
- CYLINDER MOUNTS**—One 30"x54", one 30"x54", both rebuilt, ready for quick shipment. One new 30"x52".
- DRIVES**—One Reeves No. 4, Class E, one Reeves No. 9, Class E, one Moore & White No. 10.
- DRYERS**—1 36"x54", 8 36"x62", 7 48"x108", 2 36"x66", 1 36"x76", 1 24"x120", also twenty brand new shells 48"x96" and ten new shells 48"x102".
- EVENERS**—Two Muller eveners.
- JORDANS**—1 Mammoth Jr., several Burman and Horse type Jordans.
- MACHINES**—One 2-cylinder machine for 56" trim, 28" dryers. One 72" Harper fourdrinier.
- PULLEYS**—One 9" dia. 34" face double arm, modern pulley. One set cone pulleys, 40"x31"x23" 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, 12x12x18 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 24"x22" horizontal in good condition, ready for immediate shipment.
- REELS**—Two Bagley & Sewall, one two bowl upright, one ten bowl revolving, bowls 48" face. Also several new reels now under construction. State the width you require.
- RAG CUTTERS**—One Danahie No. 2, 12 3/4" knife; one Rice, Barton & Paine with 12" knife, newly overhauled and ready for quick shipment.
- SCREENS**—Two 6 plate Sanyon, newly overhauled, 6 inch centrifugal, 6 Voth centrifugal.
- WET MACHINES**—One 74", one 72" and one 84".
- WINDERS**—One 72" single drum, one Manning 74". Our stock is constantly changing. Advise us of your wants.

Mills Machine Company LAWRENCE, MASS.

SITUATIONS WANTED

PROGRESSIVE MAN, 12 years experience in domestic and foreign papers, desires to become selling agent for mills that contemplate opening Eastern Sales Office. Address, Box 1541, care Paper Trade Journal. S11

MACHINE TENDER wants situation in Tissue Mill. Experienced on all grades of tissue. Harper or Edwards Machines. Address, Box 1528, care Paper Trade Journal. A28

SITUATION WANTED as Office Manager or Assistant. Either Tissue or Tag Mill. Practical experience, good executive, familiar with buying and sales. Can furnish best of references. Address, Box 1542, care Paper Trade Journal. A28

EXPERIENCED Cylinder Machine Tender wants position. First class on all grade of boards, test and combination. Can supply good reference. Address, Box 1543, care Paper Trade Journal. A28

FIRST CLASS Machine tender wishes position as tour boss or machine tender. Has had many years experience on all grades of Box Boards. Excellent references. Steady, reliable and industrious. Address, Box 1544, care Paper Trade Journal. S4

POSITION WANTED by an experienced Tissue Superintendent, familiar with all lines of stock best adapted to the different grades in colors and specialties. Thoroughly experienced on colors and every grade and line in Tissue. Address, Box 1545, care Paper Trade Journal. A28

FIRST CLASS Beaterman wishes to make a change. Desires a position in a good mill. Twenty-four years' experience as beaterman on light Tissue. Married, steady and reliable. Address, Box 1546, care Paper Trade Journal. A28

SUPERINTENDENT, 25 years practical experience on all grades of heavy board. Seven years on counter board and all grades of shoe board. Would like to make a change. Best of references. Address, Box 1547, care Paper Trade Journal. S4

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In great demand in America and not yet obtainable there. Must be able to furnish undoubted proof of being well introduced. Offers under Df. R. 4369 to Nijgh v. Ditmar's Adv. Agency, Rotterdam. A-28

SITUATIONS WANTED

BEATERMAN with extensive experience wants position. Three tours; hard or soft stocks for light or heavy papers, Tissue, Books, Ledgers, Onion Skin, Writings, etc. Off-the-Plate or Marshall finish. Sober and reliable. Can furnish excellent references. Address, Box 1548, care Paper Trade Journal. S11

WANTED—Position as salesman for Paper Mill. Have had extensive experience among jobbers and large converters. Can handle most any line of paper, but prefer Book, Board, Bond, Ledger and Writing, Clay Coated or Wrapping. Know specialty business. Address, Box 1551, care Paper Trade Journal. A28

YOUNG MAN, employed last five years in mill, making Chip, News, Vat Lined Boards, as clerk, desires position with future. High school graduate. Address, Box 1518, care Paper Trade Journal. A28

POSITION as Master Mechanic wanted. Age 40, eighteen years' experience in maintaining and installing paper mill machinery. Can furnish good credentials. Address Box 1522, care Paper Trade Journal. S4

EFFICIENCY SUPERINTENDENT—Thoroughly experienced in the manufacture of Coated Book papers. Latest up-to-date methods. Chemist. Desires connection with Coating Mill of large production, with opportunity to demonstrate increased production and lowest possible cost of manufacture. Salary based on percentage of increased profits only. Address, Box 1554, care Paper Trade Journal. S11

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Tonawanda, New York, wants at once a young man experienced in the Fibre Container and Box Board business. His job will be to handle the inside sales work. He must be a good correspondent, familiar with market conditions, be able to arrange production schedules and assume responsibility for all details pertaining to the handling of sales and orders.

Write, giving in your first letter, all necessary details regarding previous experience, age, education, present earning capacity, etc. Address, Mr. Peterson, care of Tonawanda Board and Paper Company, Tonawanda, New York.

A-28

FOR SALE

FOR SALE—Paper Mill Machinery. Having become interested in another business I offer for sale my paper machine and other machinery. Mill has been manufacturing Bogus until May 15, 1919, and all machinery is in good condition. Now taken down and ready for shipment. One cylinder wrapping machine, trims 66 inches. A bargain. Must sell quick. Reasonable offer will not be rejected. For further information communicate with Oscar Klein, Klein Paper Company, Clinton, Iowa. S4

FOR SALE—8 plate Becker screen; 3x68" beater rolls with ball bearings. Irons complete. Will sell for four cents per pound f.o.b. 44" Downingtown double lighter, iron tub beater; 17"x13 drive paper machine with new Marshall drive. 5 drives extra heavy. Tanks, Engine, Water Pump, Lathe, Sheridan Cutter, Paper Cutter, Shafting, Belting, and Pulleys. James Gaskell, 709 World Building, New York. S4

MISCELLANEOUS

WANTED—One small Jordan engine. State condition, price and other particulars in first letter. James Gaskell, 709 World Building, New York. A28

UP-TO-DATE Construction Engineer and Designer open to overhaul, improve or re-amp Pulp, Paper or Fibre Mill at low cost. Will go anywhere. Terms reasonable. Address, Box 1494, care Paper Trade Journal. S4

WANTED—A Dryer Cylinder 70" x 30" or over. Windsor Locks Paper Mill, Inc., Windsor Locks, Conn. A28

WANTED—Paper Millsite within short trucking distance of New York City. Must have abundant supply of clear water. First letter should give location, description of property and price. Address, Box 1549, care Paper Trade Journal. A28

WOULD like to secure an interest in paper business or kindred line. Have had executive experience in manufacture and sale of paper. Either manufacturing or jobbing business will be considered. Address, Box 1550, care Paper Trade Journal. A28

WANTED—One calendar roll grinder capable of grinding up to 92" face. Advise condition, dimensions and price. Address, Box 1552, care Paper Trade Journal. S4

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One of our friends had some paper mill machinery he wanted to dispose of, so he inserted a small ad in the For Sale Column of The Paper Trade Journal. One week after he had advertised his stock he had sold \$3,100 worth of machinery. This is just a sample of the wonderful drawing power of Paper Trade Journal Want Ads.

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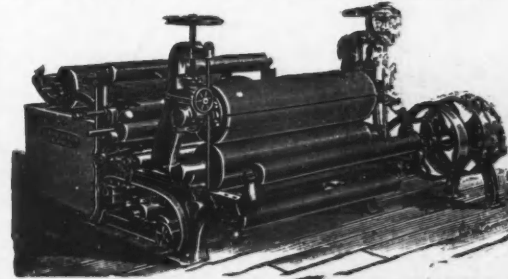
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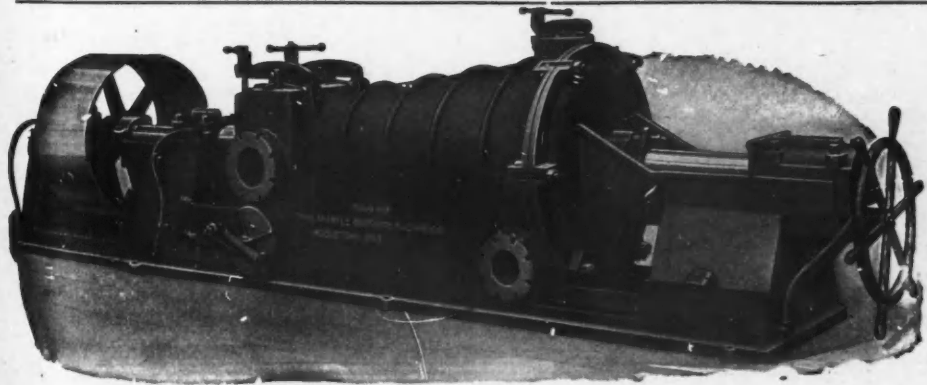
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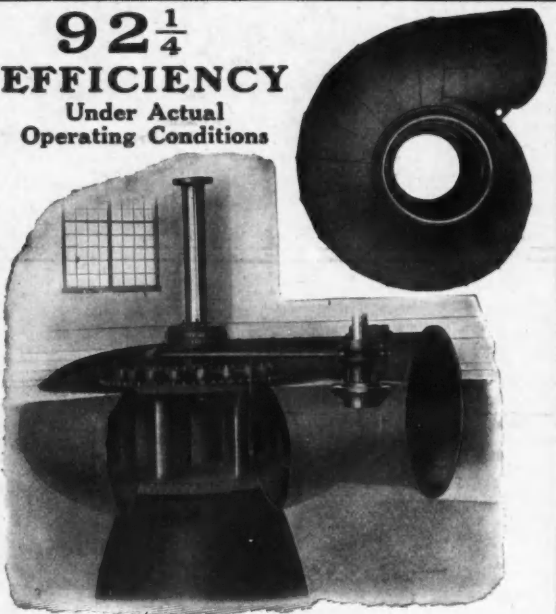


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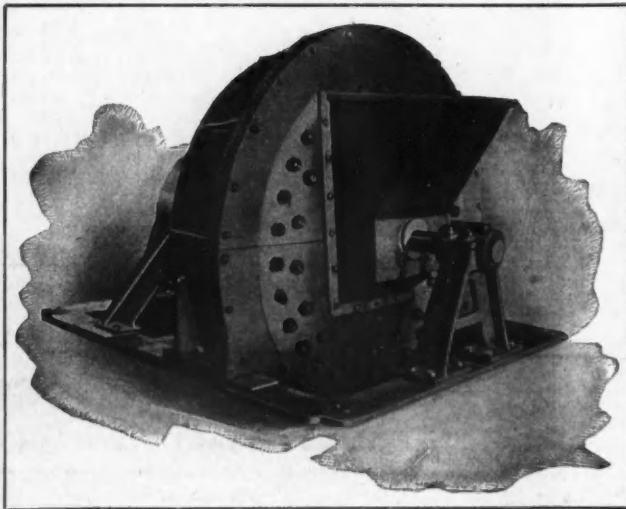
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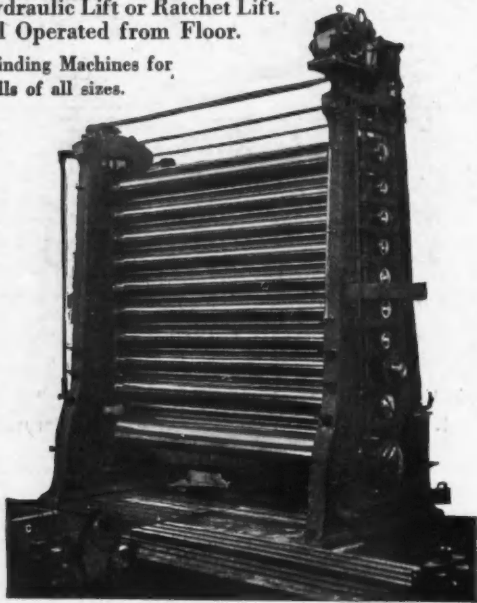
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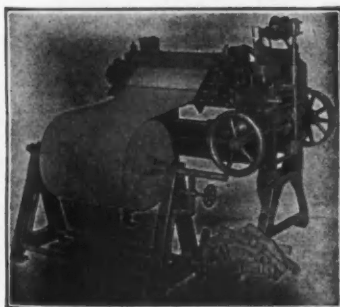
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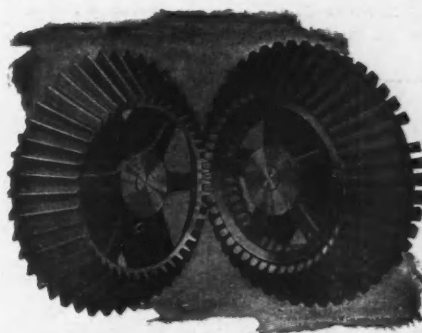
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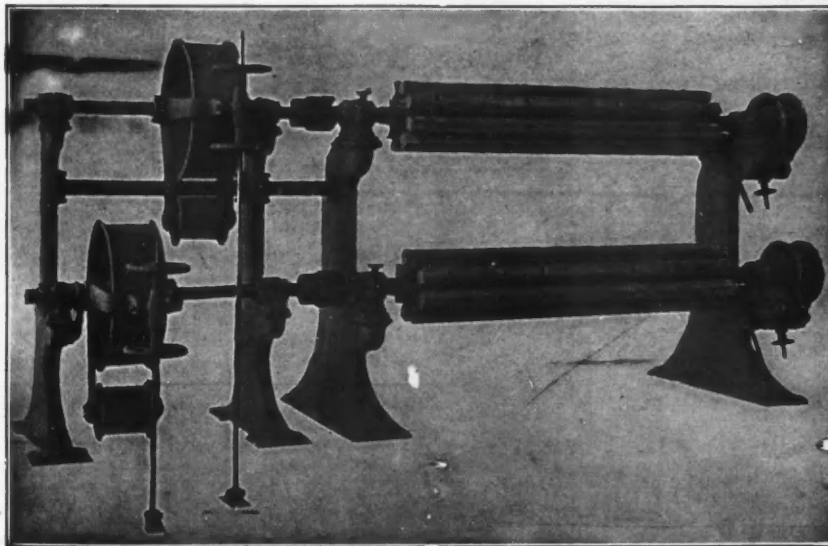
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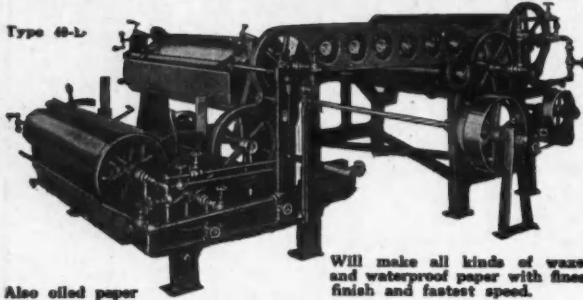
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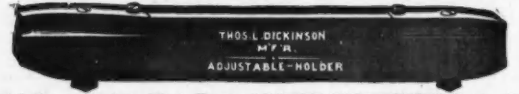
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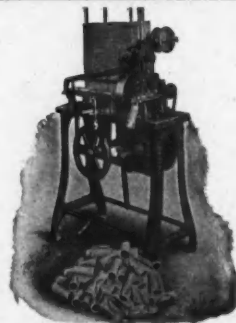
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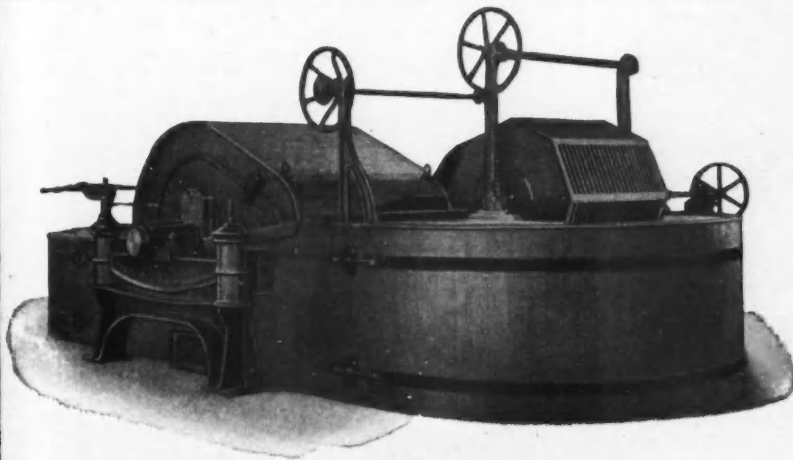
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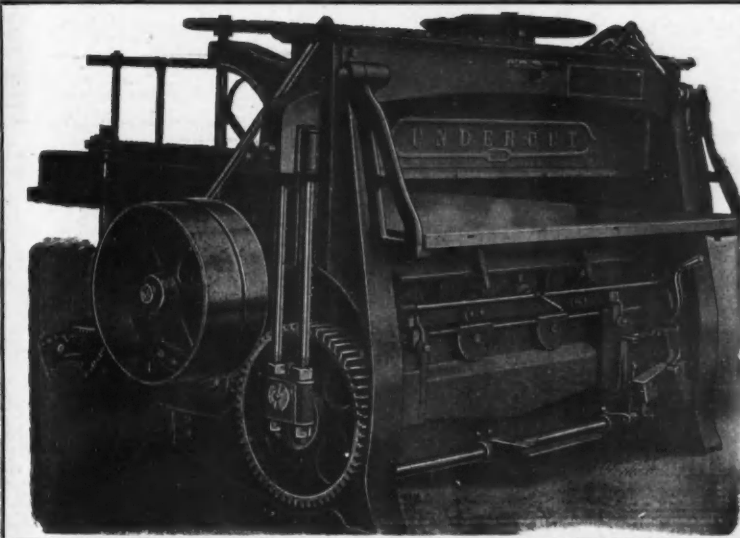
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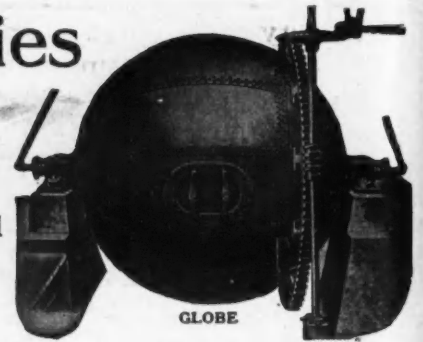
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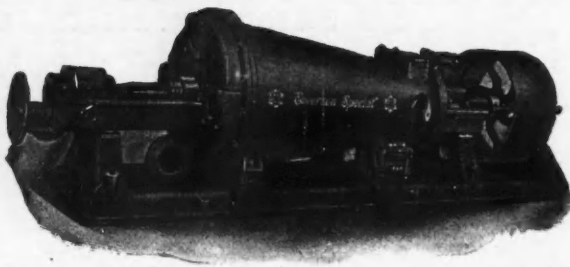


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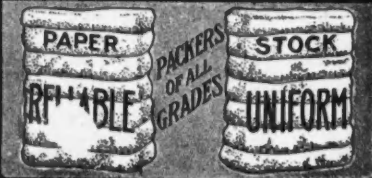
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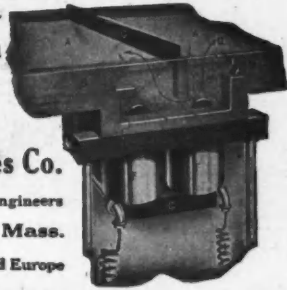
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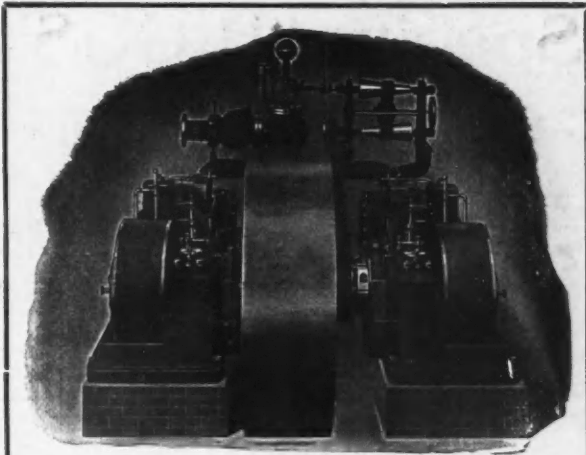
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