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# PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY.

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Vol. LXIX. No. 23

NEW YORK AND CHICAGO, DECEMBER 4, 1919

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# PAGE 19!



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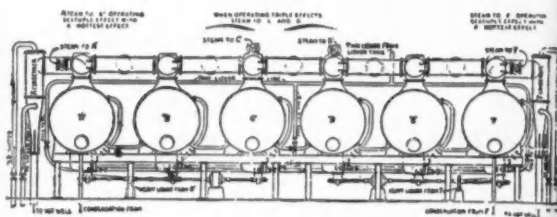


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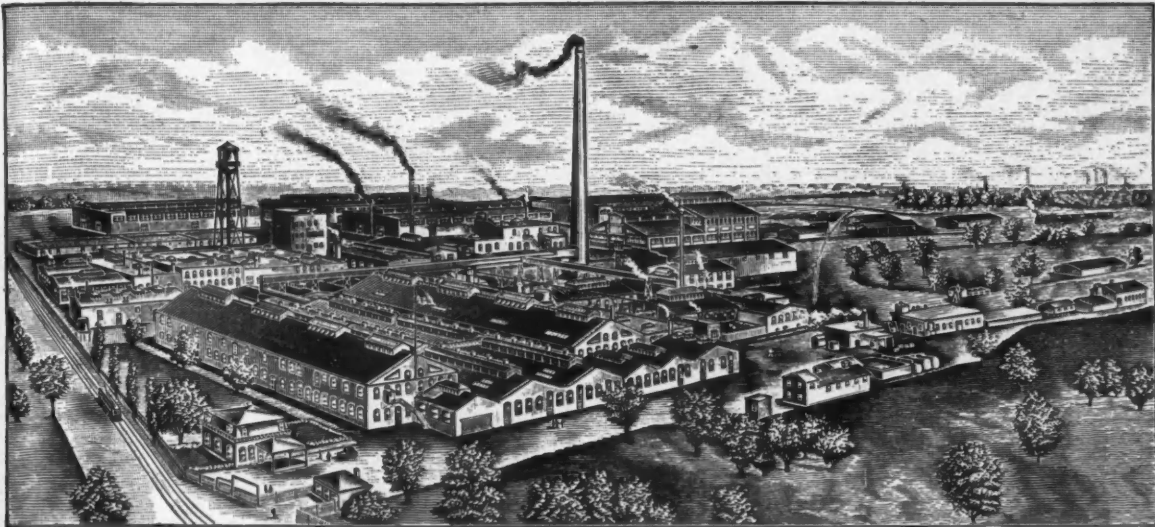
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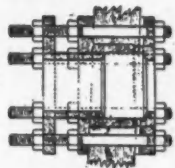
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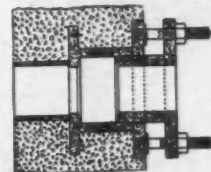
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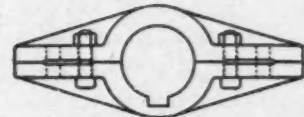
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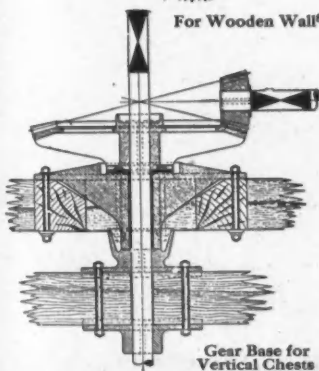


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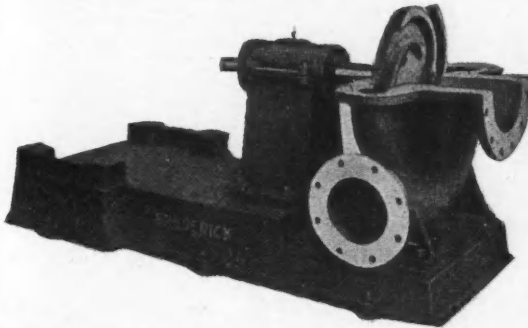
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# PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY

**FORTY-EIGHTH YEAR**

PUBLISHED EVERY THURSDAY BY THE  
**LOCKWOOD TRADE JOURNAL COMPANY, INC.**

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## PRODUCTION OF WOOD PULP FOR THE MONTH OF OCTOBER

Tabulation Furnished by the Federal Trade Commission Shows Pulp Used by the Company Producing it, Shipments to Outside Concerns and Stocks of Finished Pulp in Tons for October, 1919, Compared with October, 1918—Ground Wood Mill Stocks Equalled Slightly More Than 27 Days' Average Output—News Grade Sulphite Mill Stocks Equalled Slightly More Than 8 Days' Average Output,

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., December 2, 1919.—In connection with the Federal Trade Commission's current statistics on the paper industry a summary of the monthly reports from manufacturers of wood pulp and other kinds of pulp used in paper making is submitted herewith for the month of October, 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 October, 1919, compared with October, 1918, for the operating mills. The average production and stocks based upon the 12-months' period ended September 30, 1919, are also shown for comparison purposes.

	Number of mills	On hand first of month	Production during month	Used during month	Shipped during month	On hand end of month
<b>Ground wood pulp:</b>						
October 1919.....	159	130,890	119,073	117,930	9,706	122,227
October 1918.....	160	118,823	100,369	105,637	*	113,555
Average.....		121,095				150,161
<b>Sulphite, News Grade:</b>						
October 1919.....	62	19,493	71,060	59,507	11,228	19,758
October 1918.....	54	13,412	57,397	57,739	*	13,070
Average.....		16,452	64,344			21,558
<b>Sulphite, Bleached:</b>						
October 1919.....	30	10,383	51,915	27,425	25,790	9,083
October 1918.....	25	1,916	23,885	23,441	*	2,360
Average.....		6,149	42,390			10,270
<b>Sulphite, Easy Bleaching:</b>						
October 1919.....	8	1,895	6,089	3,525	2,728	1,731
October 1918.....	9	1,179	8,951	8,823	*	1,507
Average.....		1,537	7,520			1,619
<b>Sulphite, Mitscherlich:</b>						
October 1919.....	7	1,672	7,232	4,694	2,851	1,359
October 1918.....	7	2,805	4,731	6,388	*	1,148
Average.....		2,238	6,004			1,253
<b>Sulphate Pulp:</b>						
October 1919.....	20	6,641	17,499	10,209	6,249	7,682
October 1918.....	19	1,208	12,720	12,898	*	1,030
Average.....		3,924	15,109			4,356
<b>Soda Pulp:</b>						
October 1919.....	27	6,876	35,037	18,218	16,355	7,240
October 1918.....	24	3,669	28,649	28,804	*	3,514
Average.....		5,272	31,843			5,377
<b>Other than wood pulp:</b>						
October 1919.....	6	182	865	785	134	158
October 1918.....	5	221	922	913	*	230
Average.....		201	893			194
<b>Total for all Grades:</b>						
October 1919.....		178,022	308,710	242,293	75,131	169,308
October 1918.....		143,233	237,624	244,443	*	136,414
Average.....		160,627	284,769			197,494

\*Included in pulp used.

Total stocks of all grades of pulp in the mills on October 31 amounted to 169,308 tons. Stocks of news grade sulphite, sulphate pulp and soda pulp increased slightly during the month. There was a decrease 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 12-month period ended September 30, 1919, the figures\* show that:

Ground wood mill stocks equal slightly more than 27 days' average output.

News grade sulphite mill stocks equal slightly more than 8 days' average output.

Bleached sulphite mill stocks equal slightly less than 6 days' average output.

Easy bleaching sulphite mill stocks equal slightly more than 7 days' average output.

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

Sulphate mill stocks equal slightly more than 15 days' average output.

Soda pulp mill stocks equal slightly more than 6 days' average output.

Mill stocks of "other than wood pulp" equal slightly less than 4 days' average output.

Total mill stocks of all grades equal slightly more than 16 days' average output.

### Loss of Production

The number of grinders and digesters showing lost time during the month of October in operating mills was 1,271. These figures do not include the machines in four mills that were not in operation during October chiefly on account of repairs, lack of labor, lack of power, etc. The number of hours lost for various reasons is shown in detail in the following tabulation. The total time lost in September is also shown by grades and reasons for purpose of comparison.

	Lack of power	Repairs	Other reasons	Total October	Total September
<b>Ground wood:</b>					
Number of Grinders.....	572	347	74	993	1,054
Total hours idle.....	118,513	55,206	13,536	*a187,255	208,355
<b>Sulphite, News Grade:</b>					
Number of digesters.....	35	58	16	109	127
Total hours idle.....	3,642	5,986	914	10,542	20,623
<b>Sulphite, Bleached:</b>					
Number of digesters.....	8	39	8	55	50
Total hours idle.....	536	1,457	909	2,902	3,743
<b>Sulphite, Easy Bleaching:</b>					
Number of digesters.....	0	0	3	3	4
Total hours idle.....	0	0	205	205	306
<b>Sulphite, Mitscherlich:</b>					
Number of digesters.....	0	18	2	20	7
Total hours idle.....	0	585	420	1,005	1,345
<b>Sulphate pulp:</b>					
Number of digesters.....	0	14	16	30	12
Total hours idle.....	0	2,320	4,250	*b6,570	2,983
<b>Soda Pulp:</b>					
Number of digesters.....	1	22	36	59	43
Total hours idle.....	32	610	4,226	*c4,968	6,204
<b>Other than wood pulp:</b>					
Number of digesters.....	0	0	2	2	5
Total hours idle.....	0	0	600	600	1,497
<b>Total number of grinders and digesters—October.....</b>	616	498	157	1,271	.....
<b>Total hours idle for all grinders and digesters—October.....</b>	122,723	66,104	25,060	313,947	.....
<b>Total number of grinders and digesters—September.....</b>	748	433	121	.....	1,302
<b>Total hours idle for all grinders and digesters—September.....</b>	245,437	81,272	17,347	.....	344,056

\*a Includes 8,128 hours due to labor conditions.

\*b Includes 1,000 hours due to labor conditions and 384 hours due to lack of material.

\*c Includes 2,657 hours due to labor conditions.

### Crane & Co. Continue Fiber Tests

WASHINGTON, D. C., December 2, 1919.—J. S. Merrill, who was in charge of the paper laboratory of the Bureau of Plant Industry, Department of Agriculture, is now located at Dalton, Mass., where he is connected with Crane & Co., and where he is continuing the tests which he made for the Government on plant paper fibers. At the last session of Congress the legislators refused to make an appropriation for the continuation of this important work and therefore Crane & Co., who were much interested in the developments of the process, offered to finance a continuation of the work. The Government is watching the tests closely.

## NASHUA COATED PAPER CO. TO BUILD IN MIDDLETOWN

**Improvement will Involve an Expenditure of \$125,000 and will Include Extensive Additions to the Present Plant—Continuance of Coal Crisis May Cause a Suspension of a Number of Paper Mills in the Miami Valley—Paul E. Buss Says News Print Situation Can Only be Solved by Having the Newspapers Cut Down Their Size—Other Trade News.**

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, OHIO, December 2, 1919—The Nashua Gum and Coated Paper Company of Middletown has just awarded the contract for the construction of a new plant which will be erected in that city, to J. R. Stevens, a Cincinnati contractor, and work will be pushed to speedy completion.

The improvement will involve an expenditure of \$125,000 and includes extensive additions to the present plant. Two buildings will be erected, one a single-story structure warehouse 145 feet wide and 200 feet in depth; and the other a three-story building with a deep basement. The last mentioned structure will be 71x120 feet in dimensions.

L. C. Anderson, general manager, who also is a prominent official in the Sorg Paper Company, is of the belief that the improvement will meet the needs of this rapidly growing concern for some time, though the business expansion has been so notable that no one can foretell the demands of the future. Employment for more than 100 additional men will be afforded by the erection of the new plant.

The Nashua Gum and Coated Paper Company has been operating in the Miami Valley only for about two years but has made great strides forward. Contractor Stevens, though operating out of Cincinnati, has found the Middletown mill district so prolific in prospects that some time ago he established offices in the I. O. O. F. building in Middletown and has been supervising some large contracts. He is recognized as a reliable builder and his interests are divided between Ohio and Indiana.

Mention of this proposed improvement was made exclusively in the PAPER TRADE JOURNAL some time ago, but the details have just been completed and the awarding of the contract assures an improvement of considerable value to the community. Those who are in a position to observe, say that the company will be forced to make still greater extensions in the not far distant future.

### Discusses News Print Situation

Paul E. Buss of Mille Roche, Ontario, Canada, was a visitor in the Miami Valley the past week. Mr. Buss is well known here, having lived here and secured his early education in Middletown. He now is associated with his father in the Dominion Paper Mills Company and is expecting to start on the construction of a new mill at Brookville, Ont., in a few weeks.

Discussing the crisis in the news print situation, he stated there was little hope of alleviating the present shortage until newspapers reduce their size and begin radical conservation measures. He said that the newspapers are using one-third more paper than the combined capacity of the pulp mills of the United States and Canada. He believes it will be necessary for all papers to reduce their advertising and cut down the number of pages, if they expect to continue in business.

"Newspapers are over-grown," he declared, "and there is no hope of the supply ever keeping up with the demand at the present rate of consumption. News print mills originally were

built in the center of spruce forests fifteen to twenty years ago and gradually the forests have been cut away until now the source of wood pulp is so far removed from the grinding mills, that moving trees to the mills is a vast undertaking. The forests have been cut away back, and it will be many years before new trees take their place.

"Just now paper mill men are a little backward in embarking on new ventures for producing news print. A large amount of capital is tied up in the mills already built and with the spruce supply constantly diminishing, mill men see no great good in expanding the capacity of present plants."

### Change in Vulcanite Roofing Company

A change in the Patent Vulcanite Roofing Company has been made at Franklin, following the purchase of the plant by the Beaver Board Company of Buffalo, N. Y., a \$6,000,000 paper roofing concern with headquarters in Chicago.

The Patent Vulcanite Roofing Company has six factories and 43 warehouses throughout the United States, one of the largest being located at Franklin. According to announcement, all have been acquired by the Beaver Board Company. It is understood that Robert Glendenning will retire from the company, but that David Barbour and his organization will continue to operate the mills under the new owners.

### May Force Paper Mills to Close

The first industrial plant to close in this valley on account of the coal shortage was that of the Richard Paper Company at Lockland, which used 250 tons daily. As a result of the suspension, which occurred Saturday, 700 employees are thrown out of work. The situation of many other large industries, so far as their fuel supply is concerned, is growing more precarious each day.

Despite the breaking up of the Washington conference and the return to their respective districts of the miners' representatives, and in spite of the decision of the Government to seize the mines and, if necessary, control them with armed guards, it will be some time before relief arrives here and further suspensions are expected from day to day.

That the paper industry should be the first to be affected was not much of a surprise in circles where the true situation has been known for some time.

### To Make News Print on Greater Scale

In the face of such straight-from-the-shoulder talk as this, it is refreshing to learn that Col. C. B. Wing, for many years identified with the Diem & Wing paper mill interest of Cincinnati, has decided to enter the news print business on a greater scale, according to reports following his attendance at the annual meeting of the American Pulp and Paper Association in New York.

### Envelope Men Meet

Dayton and West Carrolton envelope men are attending the meeting of the Bureau of Envelope Manufacturers of America at Cincinnati this week. The present cost of printing in envelope factories and the labor situation were among the subjects discussed, as well as the uniform cost finding in the industry.

### Standard Paper Co. Damaged By Fire

[FROM OUR REGULAR CORRESPONDENT.]

KALAMAZOO, MICH., November 29, 1919.—For two hours Friday night firemen fought a blaze in the south stock house of the Standard Paper Company that threatened to destroy the plant. By hard work the smouldering flames were confined to the stock. The firemen tossed several hundred bales into the open before they quenched the flames.



## JOHN HOBERG CO. TO IMPROVE ITS PROPERTY AT GREEN BAY

**Production will be Increased Approximately 30 Per Cent and 75 Hands will be Added to the Pay Roll, Making 350 in All—Peshtigo Pulp and Paper Co. Considers Plans to Double the Capacity of Its Plant—Mill Now Under Construction will be in Operation by April 1—Kimberly-Clark and Neenah Paper Companies Observe No-Accident Week as Part of Campaign to Reduce Accidents.**

[FROM OUR REGULAR CORRESPONDENT.]

APPLETON, Wis., December 1, 1919.—Approximately \$250,000 is to be expended on additions and improvements at the John Hoberg Company's mill at Green Bay in the next eight months. Work has already been started and it is believed that the program of increased production can be started by June 1, 1920. Production will be increased approximately 30 per cent and 75 more hands will be added to the payroll, making 350 in all.

An addition to the main plant, three stories high, 173 feet long by 100 feet wide, is to be constructed. The building will be of re-enforced concrete construction and especial attention will be paid to sanitation efficiency in layout. Piles for the structure are now being driven. The building will be used for finishing the company's products.

Contracts have been placed for a 128-inch Fourdrinier machine with a speed of 700 feet a minute. The machine is being built by the Beloit Iron Works at Beloit, Wis. Orders have also been placed with the Noble & Wood Machine Company at Hoosick Falls, N. Y., for several large beaters and jordan. The paper machine will be ready for operation about June, 1920, but the other machinery will be shipped several weeks earlier.

Because of the increased manufacturing equipment to be installed the company will install two 700 horsepower Sterling boilers equipped with automatic combustion stokers manufactured by Babcock and Wilcox of Barberton, Ohio.

A new office building, designed along the most modern lines, is to be erected and will be ready for occupancy early in the spring.

The John Hoberg Company has been increasing the number of its products in the last year and has increased the production of old specialties. Among the new articles to be manufactured is an interfolder towel cabinet, invented by Frank H. Hoberg, general manager of the company. Folding machines for use in the manufacture of towels, napkins, toilet paper and other specialties are now being made and will be installed as soon as the addition to the plant is completed.

### Peshtigo Paper Company to Double Capacity

Officers and directors of the Peshtigo Pulp and Paper Company, which is constructing a large plant at Peshtigo, Wis., are already considering steps to double the capacity of the proposed plant. They have acquired important water-power rights at Potato Rapids and are contemplating the erection of a 500-foot dam next spring to develop 1,800 additional horsepower.

The present plant will be in operation by April 1, 1920, President John A. Kittel, of Green Bay, says. The main building is about half completed; boilers are being installed in the power house and remodeling of several older buildings is progressing rapidly.

The main building when completed will be two stories high, 240 feet long and 70 feet wide. In it will be housed two paper machines, one a Yankee making a 132-inch sheet and the other a Harper, also 132 inches wide. The machines will be interchangeable and it will be possible to manufacture light weight wrapping papers, tissues, crepe, waxed and glazed papers on either machine. The machines are being built by the Beloit Iron Works at Beloit, Wis. Orders have also been placed for three 1,000-pound Noble & Wood beaters for each machine and for two Noble & Wood jordan machines.

An old sawmill is being remodeled for use as a finishing department. The upper floor will contain trimmers, cutters and toilet-paper machines and the lower floor will be used as shipping room and storehouse. Several other frame buildings on the site will be utilized for warehouses.

A pulp mill is among the possibilities at Peshtigo, according to President Kittel. If the mill is erected employment will be given to 400 hands, he said.

The company is capitalized at \$600,000 and about \$450,000 has been paid in and the remainder is being marketed. Much of the stock is held by Fox River Valley paper mill owners and capitalists. Mr. Kittel asserts that no more common stock in the company will be issued.

M. F. Herb, formerly of the Consolidated Water Power and Paper Company of Grand Rapids, is to be the Superintendent of the new company. Mr. Herb is now superintending the construction of a paper mill for the McGillan-Asmuth Paper Company at Menasha.

### Observing No-Accident Week

Eight mills of the Kimberly-Clark and Neenah Paper Companies last week observed "No-Accident" week as part of the campaign to reduce the number of accidents in the mills. In the preliminary announcement the companies stated that many of the mills have passed through weeks in which no accidents were reported but now a concerted effort is to be made to go through a week in which none of the mills report injuries to workmen.

The campaign started with a monster safety-first mass meeting at Lawrence Memorial chapel in Appleton. Free transportation was provided for workmen residing in other cities. The principal speaker was Isaiah Hale, safety director for the Santa Fe railroad. Addresses also were delivered by safety representatives in all the mills and by public officials. Motion pictures of preventable accidents and of safety appliances in other mills were shown. On Saturday the companies were guests to school children of Appleton, Kimberly, Neenah and Menasha at a safety meeting at which public officials were principal speakers. Parents and children of workmen were asked to co-operate in the campaign by reminding the men each morning to exercise extra precautions against injury during the day.

### General News of the Trade

Employees of the eight paper mills in Appleton, Kimberly and Combined Locks have organized an athletic league and are staging tournaments. Teams to play volley ball, basket ball and indoor baseball and bowling squads have been formed. Games are played in the Y. M. C. A. at Appleton.

Workmen are still trying to salvage \$50,000 worth of pulpwood which drifted ashore when a raft being towed across Lake Superior from Canada was cut adrift in a gale. The raft was broken up September 24 and wood has been coming ashore ever since. The wood was the property of the Pulp Wood Company of Appleton and was the last towed across the lake this season.



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## MAKE ALCOHOL IN CANADA OUT OF SULPHITE LIQUOR

**As the Result of an Investigation by the Canadian Advisory Council for Scientific Research Big Industry May be Built Up—Howard Smith Paper Mills, Ltd., Increase Capital Stock to \$1,250,000—Canadian Pulp and Paper Association Considers Proposed Increase in Freight Rates—MacLeod Pulp Co. Acquired by American Interests—Other News of the Canadian Trade.**

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, QUE., December 1, 1919.—As a result of an investigation by the Canadian Advisory Council for Scientific and Industrial Research it is possible that in the near future a big industry will be built up in this country for the manufacture of alcohol for industrial purposes from the sulphite liquor of our numerous pulp mills.

In a report on the subject the Council states that a survey of all the facts concerning gasoline and alcohol as motor fuels make it almost an absolute certainty that alcohol, denatured for the purpose, will be the motor fuel of the near future. The Council says that alcohol can easily be manufactured from sulphite liquor, now a waste product of the pulp mills. The report continues: "Enormous quantities of this are produced annually in Canada, and it is being and has been disposed of by pouring it into the streams and rivers, poisoning all fish and other life therein. It contains one-half per cent of fermentable sugar, from which in the liquor of the pulp mills in Norway and Sweden more than 1,000,000 gallons of ethyl alcohol are produced annually. It has been estimated by Professor R. F. Ruttan, who has given much attention to this subject, that the sulphite liquor of the three pulp mills on the St. Maurice River would, if utilized for this purpose, produce annually about 640,000 gallons of alcohol of 95 per cent strength and at a cost of under 35 cents a gallon. It has also been estimated that the sulphite liquor of all the pulp mills in Canada is sufficient to produce at least 5,000,000 gallons annually, that is, enough to supply the needs of Canada for the next twenty years. Perhaps the cost per gallon may be reduced when the resinous and other non-sugar constituents of these liquors, amounting to about 8 per cent of the same, are put to some practical use, not thrown away as now. They are to a certain extent already utilized in tanning and the resinous material, 'sulphite pitch,' has been suggested as a binder in briquetting slacked coal, and, indeed, it has been used to a small extent for that purpose.

"Another kind of raw material for the production of alcohol is wood waste in all its forms, including slabs, strips and sawdust, from saw-mills. The quantity of this annually destroyed, or allowed to decay, is enormous, especially in British Columbia, where it is estimated between five thousand and fifteen thousand tons of wood are burnt daily to get rid of it. As the saw-mills of Eastern Canada operate only about five months in the year, and further, the collection of their waste is difficult, the utilization of it for making alcohol is not regarded as economically feasible as yet, but in British Columbia the only possible difficulty is the extent of the market for alcohol."

The Council has recommended that the Government encourage the manufacture of specially denatured alcohol by special regulations and that they allow such alcohol to be sold duty free, delivered and transported without any restric-

tion to dealers, manufacturers and other persons. The bill embodying these regulations is now before Parliament.

### Howard Smith Paper Mills

A circular addressed to shareholders of Howard Smith Paper Mills, Limited, says that the directors decided at a recent meeting to increase the common stock of the company from the present \$1,162,500 to \$1,250,000.

The additional \$87,500 of stock is offered at par to shareholders of record of November 29 in the proportion of one share of new for every 13 2/7 shares of old stock held. Fractional shares will not be issued, subscriptions for full shares only being accepted.

Privilege to subscribe for the new stock will expire at the close of business on December 13 next, with payment in full a week later.

At \$143 for the stock, the value of the rights to the new issue would work out around \$3.

### Freight Rates on Pulp and Paper

Prompt action has been taken by the representatives of the pulp and paper products manufacturers of Eastern Canada to meet the situation raised by the proposed sharp increases in railway freight rates on their manufactures. Following the notifications issued by the railways, a call was sent out by the Canadian Pulp & Paper Association for a general meeting at their headquarters in Montreal, to consider the matter. The meeting proved one of the most important held here for some time, with representatives of practically all the paper and board mills, roofing felt manufacturers, paper merchants and paper bag manufacturers from all over Eastern Canada.

Considerable alarm was evinced by the representatives present at the far-reaching effects of such increases as were proposed, especially as paper and paper products to-day enter so largely into the ordinary necessities of life. Surprise was expressed by a number of the representatives that the notice of this increase should be issued in a somewhat arbitrary manner, without the usual notice to the interested parties.

It was pointed out that should this increase in rates become effective it would apply equally to points served by the Canadian Pacific and Canadian National Railways. It was also argued that the increases would add to the cost of such ordinary necessities as roofing paper and felt, wall-boards, toilet papers, paper bags and wrapping paper, thereby adding to the cost of living in a manner which the trade representatives present considered unjustifiable.

After a prolonged discussion of the matter by the various interests represented, a committee was appointed, and instructed to arrange for a meeting with representatives of the railways at the earliest opportunity.

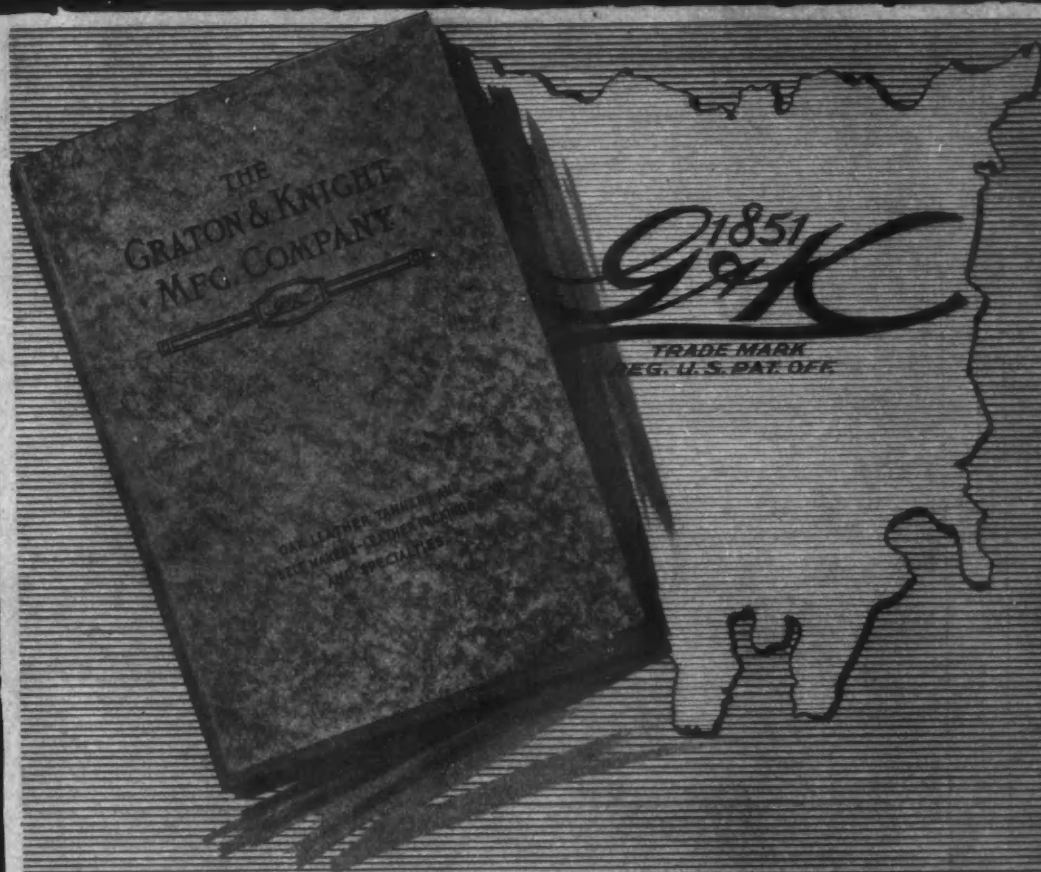
### Will Enlarge Pulp Mills

It is stated that the MacLeod Pulp Company at Liverpool, N. S., has been acquired by American interests. The company has two mills on the Mersey River, two miles above Liverpool. The mills have a capacity together of fifty tons a day of dry pulp. It is understood that the interests in the deal have taken over large tracts of forest lands in the southern part of Nova Scotia. The purchasers plan to enlarge and extend the operations on a very substantial scale.

### Great Lakes Paper Company

Something like consternation has been created at Port Arthur, Ont., by the announcement that the new farmer-Premier of Ontario, Mr. Drury, who has stated that the

(Continued on page 22)



## MORE THAN A CATALOG

This Catalog of G & K STANDARDIZED SERIES LEATHER BELTING and LEATHER PRODUCTS is practically a hand-book of leather tannage and manufacture.

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## PAPER MATTERS OF INTEREST IN AND ABOUT HOLYOKE, MASS.

**Andrew Barnett is Made Superintendent of the Chemical Paper Manufacturing Co.—John R. Kelly Accepts Position of Superintendent of the F. W. Whittelsey Co. at Windsor Locks, Conn.—George A. Gallivan, President of the American Writing Paper Co., Returns to Holyoke After an Extensive Trip Through Europe—Freight Rates are Raised.**

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, MASS., December 1, 1919.—A promotion of much interest in local paper mill centers took place when Andrew Barnett, machine tender at the Chemical Paper Manufacturing Company, was elevated to superintendent of the plant. Mr. Bennett succeeds Andrew Miller.

The Chemical Paper Manufacturing Company is one of the largest independent mills in this city, being under the same control as the Crocker-McElwain Company.

### Goes With Whittelsey Company

John R. Kelly, formerly a machine tender at the George C. Gill division of the American Writing Paper Company, has accepted the position of superintendent of the F. H. Whittelsey Company, paper manufacturers at Windsor Locks, Conn.

### George A. Galliver Returns

George A. Galliver, president of the American Writing Paper Company, who left some weeks ago to make a comprehensive study of the European paper markets, returned to this country last Sunday on the steamship Adriatic, and immediately came on to Holyoke, arriving back at his desk Monday morning, full of vigor and energy.

Mr. Galliver's visit to Europe was for the purpose of studying conditions of the fine paper industry, including also manufacturing in all phases, new products, new processes and methods of distribution.

Mr. Galliver states that the paper business in this country has nothing to fear from European competition for a number of years. The financial condition in central Europe is primarily the cause of the depression and gloom prevalent everywhere throughout the continent, while the subdivisions of the continent into many diverse nations with their differing languages and ideals, currencies and customs, makes every American who observes them feel proud that such conditions do not obtain here.

The investigations made by Mr. Galliver have been as extensive and intensive as it has been possible to make them in the while spent, and these will not be without their benefit as every opportunity has been afforded him through governmental, banking and industrial channels, to meet the leading representatives of the various countries visited, and to ascertain their ideas as well as to exchange his own with them.

He visited England, Scotland, Ireland, France, Belgium, Holland, Germany, Czecho-Slovakia, Austria and Switzerland. The interruption of transportation service in central Europe prevented his reaching Italy, which had been included in his itinerary, but nevertheless he was fortunate enough to meet well-informed Italians in Paris.

### Raise in Freight Rates

The paper manufacturers in this city and vicinity were notified last week of another raise in freight rates. This time it is the Boston and Maine Railroad, which handles considerable quantities of the products turned out in this city. The

increase which will become effective December 1, is for 25 per cent. The increase was granted in April, 1918, but was suspended because of countless difficulties.

## TO MAKE ALCOHOL FROM SULPHITE.

(Continued from page 20)

Ontario Government may cancel the order-in-council setting the price of \$17.50 for Nipigon power delivered at Port Arthur. It was on the basis of this price that the Great Lakes Paper Company entered into an understanding with the city to erect a four million dollar pulp and paper plant at Port Arthur. As a change in the price of power might mean that this big industry would be located elsewhere people of Port Arthur are naturally somewhat excited over the situation and Mayor Blaquier, together with Mr. Matthews, chairman of the Utilities Commission, and D. M. Magarh have gone to Toronto to interview the Provincial Government on the matter.

### Canada's Most Prosperous Industry

The manufacture of news print can now fairly be claimed to be Canada's most prosperous industry. For the coming year the manufacturers are looking forward to great increases in their profits and financial editors of the leading daily papers are trying to figure out what this will mean to the shareholders. Here is a sample comment. It appears on the financial page of the Montreal Gazette this week:—

"The statement has been made in responsible circles that news print paper of Canadian manufacture will, under the 1920 contracts about to be entered into, reach between \$85 and \$90 per ton in price, compared with the present range of between \$70 and \$75, under which the business of the current year was booked, representing an average advance of some \$15 per ton. The development is one of vital interest to holders of Canadian pulp and paper securities, and would seem to indicate that for the next several years, at least, prosperous conditions are to prevail in the industry, whatever may be the prospects of subsequent periods.

"That the stock market is engaged in the process of discounting such unusual prosperity, is obvious from the recent movements of several of the more popular issues of the group. Yesterday more than one of these stocks entered new price ground in their histories, while several others sold well up to their record highs.

"The appreciation in the value of the shares would seem to be well based and it might be well if all enhancements in local securities were as reasonably premised. To take an example: Spanish River, whose output early in the coming year will aggregate some 600 tons of news print per day, stands to profit by an additional \$9,000 per day as the result of the coming rise in price, or at the rate of some 30 per cent on its outstanding common stock, to say nothing of the material advantage the company enjoys with the adverse rate of exchange so heavily against Canadian funds—all of its product being sold in the United States. The latter consideration alone means well over \$2,000 per day to the company, basing the computation on a premium of 4 per cent on New York funds, compared with yesterday's 4 15/16 representing almost 10 per cent on the common stock.

"With prevailing conditions in the industry as they are, it is not to be wondered at that the pulp and paper stocks are in the favor."

### To Make Specialty Paper Bag

MILLINOCKET, ME., December 2, 1919.—W. Goodell is arranging a partnership with C. W. Whalen for the manufacture and sale of a specialty in paper bags in the shape of an ice cream cone bag. The business will probably be conducted under the firm style of The Cone Bag Company.



# “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**

## DEMAND IN PHILADELPHIA CONTINUES VERY ACTIVE

**Jobbers Anticipate Not Only Greater Increase in Price But a Greater Shortage in Paper Than Exists at Present—Market for Old Papers and Rags Also is Very Active—Mills Seem Not Only to be Taking Care of Present Business but Providing Against Future Needs as Well—Paper Stock Dealers' Association May Not Have Banquet This Year—Other News of the Philadelphia Trade.**

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, PA., December 1, 1919.—Anticipating not only a still greater increase in price, but as well an even greater shortage than now exists, a number of the jobbing houses are seeking storage facilities, determined to be in shape to take just as much material as it is possible for them to get from time to time, convinced that they will be able readily to dispose of it in the future and at even more profitable terms than they now can get. Paper storage accommodations are at a premium just now and those who are able to get in on room early will have a decided advantage.

Demand is good for all grades and in quite a few, the limit of sales is only fixed by the amount of stock which can be cajolled from the mills. Prices are still advancing. Manilas are now selling at the mills at over 6 cents and are readily bringing 8 cents and above, in the jobbing trade. Krafts are hard to get even at recently increased prices. Old Krafts advanced in price during the week with the outside price of 3 cents prevailing. Book papers continue scarce with an eager market; news is in tremendous demand, advanced prices not deterring consumers. The roofing paper market continues feverishly active, the open season encouraging building. Prices are very firmly held. Boxmakers' materials are scarce with short and belated deliveries. Advances of from 15 to 20 per cent on boards are reported. Red glaze papers advanced during the week from 6.50 to 7 cents and white linings from 2.50 to 3 cents.

The market for both old papers and rags is very active. The mills are taking promptly even small accumulations and jobbers are all cleaned up. The mill men seem to be not only taking care of the present but anticipating future business. The feeling of confidence in the future is general. Rags, too, are selling actively and with prices firm all along the line.

### May Not Have Paper Stock Banquet

The Banquet Committee of the Paper Stock Dealers' Association contemplates abandoning the annual banquet usually held about this time and in lieu thereof, recommending that there be dinners at either a series of monthly meetings or at periodic intervals more frequently than the annual. Decision has not been reached, but it is reasonably sure that stock banquets have now been relegated to memory.

### Wardco Club Meets

Everything was rosy at the meeting last Tuesday night in the Wiener Cafe of the Wardco Club, made up at the present time of a large majority, and it is hoped eventually, of a 100 per cent membership of employees of the D. L. Ward Company. Commemorating the occasion there has just come from the press, or rather the typewriter and the multigraph, the first copy of the Wardco Bulletin, to be issued, however, regularly hereafter and certainly whenever there is material

enough in the hands of W. A. Hertz, editor, to fill its two pages. It will be the official organ of the Ward Company and will be edited entirely by members for members.

At the first meeting of the reorganized Wardco Club, J. W. J. Deal acted as temporary chairman and Messrs. Marker, Walters, Furlong, Edwards and Weikert as a Nominating Committee, proposed the following ticket, which was elected unanimously: President, C. Griffith; vice-president, T. S. Furlong; secretary, T. Curry, and treasurer, R. G. Luff. Decision was reached that Wardco Club dues be \$1 a month, the head of the firm agreeing to make up the difference between expenses incurred and the yield from dues. By-laws were ordered to be drawn by a committee consisting of Messrs. Parker, Straka, Marker, Clark and Hentz. Plans for a meeting a month hence, with a prominent speaker, were discussed and the matter was placed in charge of Messrs. Edwards, J. Conradi, Purcell and Sullivan. During the evening informative talks were given by Messrs. Roller, Hassan, Parker, Edwards, Purcell, Weikert, Johnson, Sullivan, Bently and Straka.

### Datz Company Buys Building

The Datz Company, 417-419-421 M. Orianna street, has purchased the new three-front building, 537-539-541 N. Third street, formerly occupied by the United States Paper Box Company of which Anatole Levy was proprietor and containing on its three floors some 7,000 square feet of space. The Datz Company, founded some ten years ago by William P. Datz and Raymond B. Datz, brothers, will shortly remove to the new plant and will increase the machinery equipment and will add automatic wrappers and lacers.

### General and Personal News of the Trade

The sales force of the Garrett-Buchanan Company met last Friday to discuss the proposed by-laws of their organization and what was more interesting, to listen to Representative Pomeroy of the Byron Weston Company. The Garrett-Buchanan Company will carry the new Byron Weston line and its strong selling appeal was highlighted by Mr. Pomeroy.

The Charles Beck Company, Sixth and Chestnut streets, is sending to the trade new sample books of Independence fancy box covers.

C. H. Morian, of the J. L. N. Smythe Company, ran over to New York during the week.

The Reliable Paper Box Company has opened offices at 129-131 Broad street with Joseph Berman and Samuel Sunkin proprietors.

The paper box plant of George H. Snyder, 3631 N. Smedley street, was damaged to the extent of \$5,000 by fire last week.

The Baeder-Adamson Company of this city, manufacturers of glue and sand paper, has been incorporated in Boston with a capital stock of \$2,500,000.

Application for a charter has been made by Jacob G. Grauer, A. E. Bird and Fred Green for the Industrial Paper Box Company.

Hartzell Brothers, printers, Carlisle, have just purchased the large Bratton building there.

Four thousand hands are now employed on the dye works of the du Ponts in New Jersey just across from Wilmington and it is expected that ultimately the number will reach 10,000, making it the largest establishment of its kind in the world.

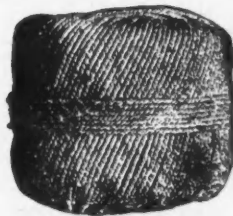
J. N. Lemon, Chicago representative for Lindsay Brothers, and his brother, Al. Lemon, Chicago representative of the American Writing Paper Company, came to the city last week to attend the funeral of their eighty-one-year-old mother, who died at her home in Camden.

**MUNISING PAPER COMPANY**  
**MUNISING MICHIGAN**  
 MANUFACTURERS OF



**COLOR QUALITY AND UNIFORMITY**  
**HAVE MADE FOR IT**  
**AN ENVIABLE REPUTATION**

**“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**



## BIDS AND SPECIFICATIONS FOR GOVERNMENT PAPER

**Purchasing Officer of the Government Printing Office Announces Bids for Various Lots of Paper at Interesting Prices—Purchasing Officer of the Government Printing Office Announces Awards for Paper for Which Bids Were Opened Recently—Purchasing Officer of the Panama Canal Announces Awards for Paper—Other Bids and Awards.**

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., December 2, 1919.—The Purchasing Officer of the Government Printing Office has received the following paper bids:

250,000 pounds of white S. & S. C. printing paper in 38" rolls, basis of 25x38, 45; American Writing Paper Company, at \$.1055 per pound.

15,000 pounds (3,000 sheets) of 34x44 No. 10 medium trunk board; Boxboard & Lining Company, at \$.044 per pound; Strehl Otens Company, at \$.048; C. L. LaBoiteaux Company, at \$.0395; Philip Rudolph & Sons, at \$.04; Monroe Binder Board Company, at \$.04½; Kerr Paper Company, at \$.0385; Republic Bag & Paper Company, at \$.90.75 per ton; George W. Millar & Co., at \$.80.00; R. P. Andrews Paper Company, at \$.87.20; and Dobler & Mudge, at \$.74.50.

180,000 pounds (5,000 reams) of 21 x 32 No. 20 white glazed bond paper; George W. Millar & Co., at \$.2375 per pound; Strathmore Paper Company, at \$.229; Old Dominion Paper Company, at \$.23378; Dobler & Mudge, at \$.2075; Aetna Paper Company, at \$.1564; and American Writing Paper Company, at \$.18.

17,975 pounds (550 reams) of light pink and green writing paper; Old Dominion Paper Company, at \$.2449 and \$.19424; George W. Millar & Co., at \$.2475; Aetna Paper Company, at \$.1664; American Writing Paper Company, at \$.179; Merriam Paper Company, at \$.2175; Dobler & Mudge, at \$.186; and R. P. Andrews Paper Company, at \$.185.

50,000 pounds of 26 x 38 No. 50 strawboard; and 100,000 pounds of 22 x 26" No. 50 chip board; and 10,000 pounds of 22 x 26" No. 25 binders' board; Kerr Paper Company, at \$.85.00 per ton; American Writing Paper Company at \$100.00; Old Dominion Paper Company, at \$.65.76; Philip Rudolph & Sons, at \$.61.50 and \$.89.50; Republic Bag & Paper Company, at \$.65.70; Maurice O'Meara Company, at \$.59.85 and \$.91.50; Mathers-Lamm Paper Company, at \$.64.95, \$.57.48 and \$.74.95; George W. Millar & Co., at \$.65.00, \$.115.00, \$.90.00 and \$.80.00; United Paperboard Company, at \$.65.00, \$.54.00 and \$.75.00; R. P. Andrews Paper Company, at \$.60.00 and \$.88.00; Roxford Paper Company, at \$.60.00, \$.65.00 and \$.90.00; Alton Boxboard Company, at \$.61.00 and \$.67.00; C. L. La Boiteaux Company, at \$.65.00; and Franklin Coated Paper Company, at \$.65.00.

The Purchasing Officer of the Government Printing Office will open bids on December 8 for 1,250,000 pounds of news print paper in 19 and 48-inch rolls, basis 24x36 inches, 32 pounds.

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

540,000 pounds of No. 1 white M. F. printing paper in 9½" and 48" rolls, basis 25x38—35; American Writing Paper Company, at \$.1055 per pound.

2,000 pounds (100 reams) of 17x22—No. 20 white declaration bond paper: Dobler & Mudge, at \$.3275 per pound; Old

Dominion Paper Company, at \$.3498; and Southworth Company, at \$.32.

3,000 pounds of oiled manila tympan paper in 48" rolls, basis 24x36—86: Dobler & Mudge, at \$.095 per pound; and Mathers-Lamm Paper Company, at \$.099.

21,600 pounds (600 reams) of 22x34—No. 16 and 22x34—No. 20 salmon writing paper: Dobler & Mudge, \$.186 per pound; American Writing Paper Company, at \$.168; Aetna Paper Company, at \$.1787; R. P. Andrews Paper Company, at \$.185; Merriam Paper Company, at \$.21; Old Dominion Paper Company, at \$.1942; and Southworth Company, at \$.25.

269,650 pounds (6,200 reams) of various sizes of white wove writing paper: Aetna Paper Company, at \$.1677 per pound; American Writing Paper Company, at \$.1674; Dobler & Mudge, at \$.176 and \$.2075; Strathmore Paper Company, at \$.22; Stone & Andrew, at \$.214 and \$.2125; Merriam Paper Company, at \$.175 and \$.20; and Old Dominion Paper Company, at \$.18374.

### Government Printing Office to Open Bids

The Purchasing Officer of the Government Printing Office will open bids on December 5 for the following: 272,000 lbs. (5,900 reams) of various sizes No. 1 white M. F. printing paper.

90,000 lbs. (3,000 reams) of 21½ x 32½ No. 16 white wove writing paper.

40,000 lbs. (20,000 sheets) of 25 x 30 No. 25 No. 2 quality binders' board.

### Government Printing Office Awards

The following paper awards have been announced by the Purchasing Officer of the Government Printing Office:

The American Writing Paper Company will furnish 84,000 pounds (3,000 reams) of No. 1, 24 x 32, 28, white M. F. printing paper at \$.108 per pound. The same firm will also furnish 180,000 pounds of various sizes of white wove writing paper at \$.119 and \$.136. The Republic Bag & Paper Company will furnish 2,000 pounds of plate wiping paper at \$.075 per pound. Bids for these items were opened on November 12.

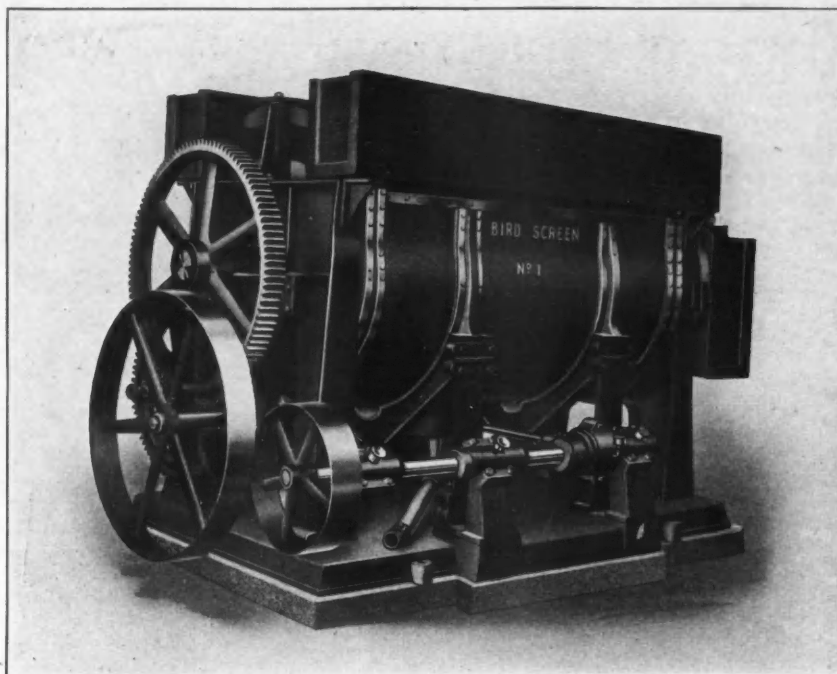
198,800 pounds (2,600 reams) of No. 1 white M. F. printing paper will be furnished by the American Writing Paper Company at \$.105 and \$.1075 per pound, and the Bryant Paper Company will furnish 32,500 pounds (500 reams) of 32x48, 65, white rag machine finish printing paper at \$.13 per pound. Bids for these items were opened on November 17.

The Mathers-Lamm Paper Company will furnish 1,000 pounds (100 reams) of 17 x 22, 10, white French folio paper at \$.17 per ream. The Aetna Paper Company will furnish 36,000 pounds (500 reams) of 32 x 42 No. 20 yellow writing paper at \$.1673, and the American Writing Paper Company will furnish 2,160 pounds (30 reams) of 21 x 32 No. 40 light pink wove writing paper at \$.168 per pound. The Lanston Monotype Company will furnish 15,000 pounds of monotype keyboard and casting machine paper at \$.12 per pound. The Worthy Paper Company will furnish 9,300 pounds of 23 x 38 No. 28 yellow commercial wove ledger paper at \$.2475. The Whitaker Paper Company will furnish 4,000 pounds (50 reams) of 19 x 24, 80, pink blotting paper at \$.105 per pound. Bids for all of these items were opened on November 21.

180,000 pounds (5,000 reams) of 21 x 32 No. 20 white glazed bond paper will be furnished by the Aetna Paper Company at \$.1564 per pound, and the same firm will also furnish 17,975 pounds (550 reams) of light pink and blue writing paper at \$.1664 per pound. The Boxboard & Lining Company will furnish 50,000 pounds (50,000 sheets) of 26 x 38 No. 50 strawboard at \$.60.00 per ton. The United Paperboard Company will furnish 100,000 pounds (100,000 sheets) of 26 x 38 No. 50 chip board at \$.54.75 per ton, and Dobler &

(Continued on page 54)





## The Importance of Correct Design

The Bird Screen is carefully designed along accepted lines of paper making practice, not only as the screen itself with particular duties of its own, but as that very important item of paper making apparatus which stands next to the head box of the paper machine. Watch the flow of stock through a Bird Screen—steady and even in volume, but one change of direction, only enough agitation to keep the stuff passing through the slots. The Bird Screen is not a churn.

Stock passing through a Bird Screen comes in contact only with the smooth surfaces of the vat and the plates. There are no moving parts such as pistons, rotors diaphragms or the like.

Remember that your screen does stand next to the head box of the paper machine. A great deal of good or harm can be done at this point.

*Write for Catalog I-A*

# BIRD MACHINE COMPANY

EAST WALPOLE

MASS

T. H. SAVERY, JR., Western Representative, 1630 Republic Bldg., Chicago, Ill.

# BIRD ROTARY SCREEN

INWARD FLOW

## 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.**

### Paper Sizing

Question 2472: Can you give me any information relative to paper sizing, that is the type of apparatus used and the method of process?

I desire this information to determine whether it would be of advantage to control the temperature of the size at any time during process.

Answer 2472: In preparing rosin size for use in paper the following method is generally in vogue: The size is put into a melting or heating tank, about four feet in diameter and four feet deep, or depending on the quantity size to be made into solution. The size in this tank is heated to about 200° F. It is then blown into a larger tank containing a certain amount of water which has been heated to about 180° or 190° F. It is important that these temperatures are correct, but it is not necessary to maintain them for any length of time, excepting in melting dry size, when the temperature must be controlled for several hours to melt the size. It is also probable that a temperature control could be used advantageously in cooking rosin in the manufacture of the size. In the tub sizing process the paper is run through a bath of animal or other sizing. This size is being continually circulated from the supply tank to the size tub. The size, in this process, should be held at a certain temperature (generally 120° F.) so the accurate control of the temperature of the size in this process is very desirable.

### Method of Cooking Rags

Question 2473: Will you be kind enough to advise the best method of cooking rags? Any information you could give me on this line would be greatly appreciated.

Answer 2473: It is difficult to give the best method for cooking rags without knowing what quality of rags are to be cooked, as what might be a perfectly good method for one grade of rags would be entirely unsuitable for another.

Following is a general outline of the cooking process by Cross and Bevan. Information on any detail or treatment of special rags will be gladly given on request.

After the rags have been cleaned, dusted and cut the boiling is done in either spherical or cylindrical boilers. The rags are put into the boilers first then the alkali, after which the boiler is sealed and steam turned on until the rags are cooked. The time and pressure depending on the quality of the rags.

The alkali employed may be either caustic lime, caustic soda, sodium carbonate, or a mixture of the latter and lime, which is the economical equivalent for caustic soda. The proportion of alkali depends upon so many considerations that it is quite impossible to give exact information on this point. In the case of caustic soda, a quantity equal to from

1-5 per cent on the rags may be taken as a general average. If lime be used it should be slaked with water, made into a thin milk, and carefully filtered through fine wire cloth to keep back the particles of sand, coal, etc., which lime is always liable to contain. From 5-10 per cent may be used. The amount of lime actually dissolved in the water is relatively small (1-3 grm. per litre); the portion in solution, however, rapidly combines with the grease, dirt, and coloring matter of the rags and forms with them insoluble compounds, a fresh portion of lime being at the same time dissolved. This formation of insoluble compounds constitutes an important objection to the use of lime, as they are liable to remain to some extent fixed in the rags, and are with great difficulty removed by washing. For this reason, therefore, the more soluble alkali is to be preferred. Moreover, the lime sometimes tends to exert a hardening effect upon the cellulose. Notwithstanding these objections, lime is used by some papermakers in preference to soda.

In making choice of the chemical for boiling, much depends on the quality of the rags and the nature of the paper for which they are intended. For instance, caustic soda will perform more chemical work than an equivalent quantity of carbonate, so that for raw unbleached rag fibres and for colored or greasy rags, caustic soda would be employed, whereas for relatively clean, worn rags, where a simple detergent effect only is required, sodium carbonate or silicate with a milder chemical action would be selected.

To reduce the treatment of rags, to "first principles" the paper-maker requires to inform himself of the chemical treatments adopted in the textile industries, whether in bleaching the goods or in dyeing and printing them. As regards the former, he requires to follow the same line of treatment; and in the removal of color from dyed and printed goods, a knowledge of the method by which the color was fixed will enable him the more economically to undo that process.

The time of boiling varies from 2 to 6 hours, according to the quality of rags, the chemical employed; and the pressure (5 to 25 lb. per sq. in.). The use of very high pressures should be avoided as far as possible, as there is a danger, owing to the correspondingly high temperature, of fixing the dirt and coloring matters instead of dissolving them; for the same reason the quantity of water should be kept as low as possible. This also ensures a relatively strong solution of the alkali which effects a saving both in the time of boiling and in the alkali, and is of great importance where it is necessary to evaporate the whole of the waste liquors. Further, it is necessary to take into calculation the water formed by condensation in all boilers in which live steam is used. On the other hand, if too little water be added, the rags are liable to become "burned" and the fibre therefore weakened. During

(Continued on page 58)

# J. Andersen & Co.



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

## A-1 Bleached Sulphite

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



### KRAFT PULP

Uniform in Quality  
Essential for Strength Requirement

### THE PULP AND PAPER TRADING COMPANY

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

Sole Agents for the United States for  
CANADIAN KRAFT, LTD., Three Rivers, Canada



## New York Trade Jottings

Frank A. Dunaway, pulp dealer, 501 Fifth avenue, visited the Hammermill mills at Erie, Penn., last week, on business. He returned last Monday.

\* \* \*

Wm. H. Donaldson, of the Craig-Becker Company, 52 Vanderbilt avenue, is on a two-week business trip in the West. He will return to New York about the tenth of this month.

\* \* \*

Henry E. Atterbury, of Atterbury Brothers, Inc., 38 Park Row, left last week for a two-month trip to South America, where he will investigate the casein situation there. He will spend most of the time in the Argentine.

\* \* \*

Howard Atterbury, of Atterbury Brothers, Inc., 38 Park Row, was on a short business trip to Boston last week. He returned to his office Monday.

\* \* \*

H. L. Derby, vice president and sales manager of the Kalbfleisch Company, Inc., 31 Union Square West, is on a short business trip in the West. He will stop in Chicago and Detroit, and some other western cities, and expects to return to New York in about a week.

\* \* \*

R. S. Kellogg, secretary of the News Print Service Bureau, 18 East 41st street, left last Monday for Chicago on a business trip. He will return to New York Friday.

\* \* \*

M. Gintsler, of the J. Andersen Trading Company, 21 East 40th street, was out of New York last Monday and Tuesday on business. He visited some pulp mills in Northern New York and Massachusetts.

\* \* \*

A controlling interest in the Pejepscot Paper Company, Inc., was purchased last week by Julius H. Barnes, 42 Broadway. The Pejepscot Paper Company owns two mills, one at Lisbon Falls, and the other at Brunswick, Me. The mills, which produce largely news print, will be enlarged and improved, according to the plans of Mr. Barnes, and will be run on an energetic business plan. The mill has never paid any dividends on its stock, and so a controlling interest was bought for approximately \$750,000, according to the report. Mr. Barnes, who is the United States Wheat Director, plans to devote a large portion of his time to these mills when the government control of wheat terminates June 30, 1920.

### Packing Service for Exporters

The Safepack Mills, 727 Atlantic avenue, Boston, Mass., one of the leading waterproof paper concerns of the country, has recently established a Packing Service Department, the purpose of which is to advise shippers without charge concerning safe and economical methods of boxing, crating, baling, bundling and protecting goods by waterproof coverings both for export and domestic shipment.

This department is under the supervision of Captain Harry N. Knowlton, formerly Chief of Packing Service, Ordnance Department, U. S. Army. Before the war Captain Knowlton was an engineer at the Forest Products Laboratory of the United States Forest Service, Madison, Wis., where the Govern-

ment made very exhaustive tests of containers of various sorts, lumber, paper and other packing materials.

The savings made by the War Department in packing army supplies for overseas shipment ran into many millions of dollars. Enormous amounts of freight car, ship and storage space were saved and the losses due to damaged goods delivered overseas were reduced to a minimum.

The failure on the part of many domestic and export shippers to observe certain principles in packing which insure the safe arrival of goods at destination occasions enormous losses annually in damaged goods, loss of time and delay in repairing or replacing goods, and dissatisfaction of the customer. Foreign markets for American goods have often been lost as a result of poor packing.

In establishing the service department, the Safepack Mills hope that shippers will make use of this service whenever they wish information of any kind on packing. There is no charge or obligation of any kind for the service.

### Hercules Paper Corporation Plans

A group of important financial interests have closed negotiations for part of the capital stock of the Hercules Paper Corporation. This corporation was recently formed with powerful financial support for the purpose of acquiring units in conformance with a broad policy of expansion which has for its purpose the establishing of one of the country's largest paper manufacturing concerns. The Company operates two paper mills, one at Cornwall-on-Hudson, New York, and the other at Rock City Falls, Saratoga county, N. Y. These two plants form the nucleus of the corporation's manufacturing capacity. A third property is to be taken over in the immediate future and it is the intention of the company to acquire from time to time additional paper mills which will make the Hercules Paper Corporation one of the largest producers in the industry.

This staple industry is putting itself in a position to meet the tremendous demands upon it for news print and paper products. There is a serious scarcity of news print and the newspapers of the United States are facing the most acute shortage in their history. It is the opinion of conservative authorities that it will be from two to five years before the industry is again on a competitive basis.

The bankers interested are prepared to supply whatever capital is necessary for the completion of the expansion program which is planned.

### Draws Up Paper Specifications

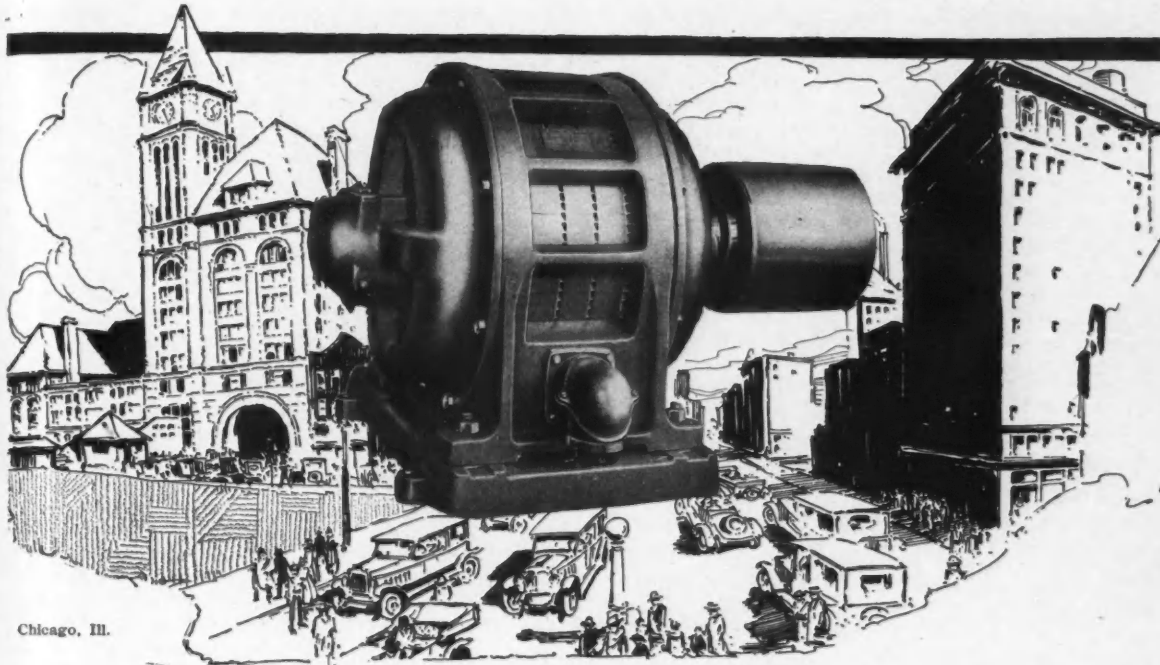
[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., December 2, 1919.—The Specifications Committee of the Joint Committee on Printing which has been drawing up paper specifications for the Government Printing Office, has just completed its work and will hold its final meeting on Thursday. One of the important decisions made this year was the fact that the Specifications Committee is asking that the paper bidders make an allowance of 25 per cent above or below their estimates. In other words, the Government will be allowed to buy either the estimated quantity or 25 per cent above that quantity or below that quantity at the price of the contract. Also, provision is made in the specifications for bids for a period of six months and also for a period of a year, beginning on March 1, 1920. Another important change in the specifications is the addition of the postal card paper which always has been purchased by the Post Office Department and which is quite a large item.

Although the Joint Congressional Committee itself must pass on the specifications before they are printed, it is believed that the opening of the bids will probably be held on the first Monday in February and the awards announced one week later as is the usual custom.



*G-E Polyphase Induction Motors are extremely simple  
and built to withstand hard usage in exposed locations*



Chicago, Ill.

### Durable Motors in Widespread Use

**A**LL over the world you will find G-E polyphase induction motors—more of them than of any other kind.

You will find them in acid fumes on five-year long non-stop run.

You can find where they have been fished out of fire-swept ruins or flooded mines and quickly put back into operation—where they have

operated under water and driven pumps to unwater mines.

Motors in correct sizes and with proper control equipments are available for every industrial requirement. They are stocked in all large cities near the offices of specialists in their application who are at your service.

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

## Obituary

### Colonel True

[FROM OUR REGULAR CORRESPONDENT.]

BOSTON, MASS., December 2, 1919.—Colonel True, senior partner of the firm of True & McClelland, died suddenly at his home at Hope, Me., on Thanksgiving Day. Colonel True was one of the oldest and best known men in the importing paper stock trade for many years. He was a man of sterling character, business integrity and a pleasing personality which endeared him to all with whom he came in contact.

Colonel True was born at Hope, Me., July 4, 1836, and served throughout the Civil War from 1861 to 1865. He commanded the Eighth Maine Regiment of Infantry and was present at Appomattox at the surrender of General Lee. He was a member of the Military Order of the Loyal Legion, a Mason and a Knight Templar. At the close of the war in 1865 he went to England and engaged in business at Liverpool, where he resided until 1890.

He returned to this country in 1890 and resided at Newton, Mass. until the death of Mrs. True, a few years ago, since which time he has made his home in Maine.

He was a senior partner in the firm of True & McClelland, which concern succeeded E. A. True & Co. about thirty years ago, the business being in continuous operation for more than fifty years. He leaves one son, Capt. Albert Otis True, of Eng. Corps, U. S. A., now stationed at Newport News, Va.

### Irving Isaacs

Irving Isaacs, for nineteen years connected with the Columbia Paper Company, 533 West Broadway, New York, died at his home, 356 West 145th street, after a long sickness. Mr. Isaacs, who was thirty-nine years old, had been with the company ever since he was a young man. He died November 24, and was buried November 26 at Union Fields. He left a wife and two children.

### Alling & Cory Century Old

ROCHESTER, N. Y., November 22, 1919.—One hundred persons seated at dinner in the ballroom of the Genesee Valley Club on the evening of November 14, occupying three tables so arranged that they combined to make the numerals "100," celebrated the 100th anniversary of the founding the house of the Alling & Cory Company, wholesale paper dealers and one of Rochester's oldest and most widely known business houses. Those at the tables were the employees of The Alling & Cory Company and a few invited guests.

To put the finishing touch to an already memorable event, Joseph T. Alling, president of the company, surprised his employees by announcing another benefit plan to add to the long list of mutual welfare institutions for which the Alling & Cory Company plan already is famous. It was the issuance of a series of employees' benefit certificates obligating the company to pay \$1,000 to the beneficiary of any employee who died in the service of the house, and a like sum to any employee who may become permanently incapacitated for further work while in the employ of the company. Every employee who has been with the company one year or more received one of the certificates.

The Alling & Cory Company represents the outgrowth of a business founded in Rochester in 1819 by a Quaker named Elihu F. Marshall, who was a cousin of Chief Justice Marshall of the United States Supreme Court. In the company's archives at present is a letter written by President John Adams in the winter of 1820 to Mr. Marshall, thanking him for a copy of a book published by the latter, which was sent to the President for review. Other interesting relics connected with

the first years of the business which are now in the possession of the company are copyrights for books published in 1819 and 1820, and the letters accompanying them, all signed in person by John Quincy Adams, who was then secretary of state.

William Alling, father of Joseph T. Alling, entered the employ of Mr. Marshall in 1831, and three years later the business was purchased by Mr. Alling. It is a remarkable fact that ever since that time the senior member of the business has been an Alling. Previous to William Alling's connection with the business the firm was known variously, first under the name of its founder, Elihu Marshall, and later as Marshall & Spaulding, Marshall, Spaulding & Hunt, and Marshall & Dean.

With the transfer of the proprietorship of William Alling, the firm name was changed to William Alling & Co. Samuel D. Porter was a member of the company. About 1855 David Cory, whose wife was one of the guests at the dinner, became identified with the company. For a time the firm was known as Allings & Cory, a brother of William Alling becoming a partner. Later it was changed to Alling & Cory, and as such was handed down to the two sons, Joseph T. Alling and Harvey E. Cory, who are the heads of the company at present.

### To Make Pulp Wood Investigation

[FROM OUR REGULAR CORRESPONDENT.]

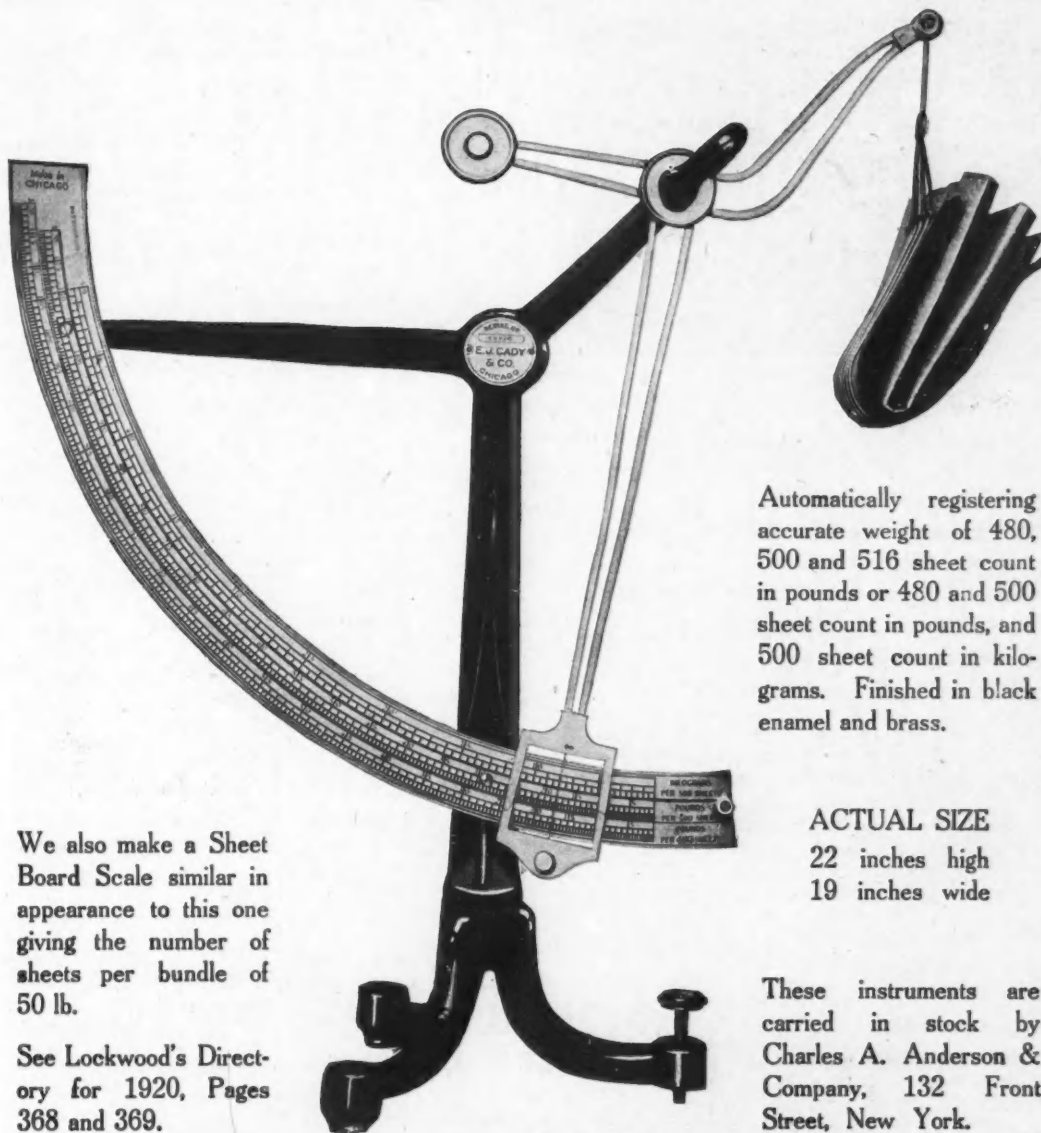
WASHINGTON, D. C., December 2, 1919.—Officials of the Forest Service are much interested in the statement which has been made by Senator Gronna, Chairman of the Senate Committee on Agriculture, to the effect that the Committee will carry on a pulp wood investigation in the near future. It is pointed out by officials of the Forest Service that no pulp wood survey has ever been made in the United States so that statements which are made from time to time as to the pulp wood available in this country are more or less unreliable. The Forest Service has made preliminary investigations of pulp wood in some of the national forests with an idea of selling the pulp wood to pulp and paper mills. On the other hand, it is understood that the Canadian government has a very good idea of the extent of its pulp wood lands and in this respect Canada has considerable advantage over the United States. An investigation and survey of the pulp wood lands of the country evidently would be welcomed by officials of the Forest Service who are interested in this subject.

### Niagara Falls Paper Co. Expands

[FROM OUR REGULAR CORRESPONDENT.]

NIAGARA FALLS, N. Y., December 1, 1919.—The Niagara Falls Paper Company has just installed a twelve-color high-speed Waldron printing machine and other equipment and is now turning out about 150,000 rolls of finished wall paper per month. When the United States entered the war the government focused its attention on Niagara Falls because of the available cheap electric power here. The exceptional resources and the vast block of power controlled by the Niagara Wall Paper Company were requisitioned by the government and turned to manufacturing war munitions, the manufacture of wall paper being entirely suspended.

When peace was declared the company immediately started an aggressive campaign to get back to pre-war footing. Remarkable rapidity was made and in a few months the company had not only gotten back to a peace-time basis, but found that its old facilities were entirely inadequate to meet the demand.



Automatically registering accurate weight of 480, 500 and 516 sheet count in pounds or 480 and 500 sheet count in pounds, and 500 sheet count in kilograms. Finished in black enamel and brass.

**ACTUAL SIZE**  
22 inches high  
19 inches wide

We also make a Sheet Board Scale similar in appearance to this one giving the number of sheets per bundle of 50 lb.

See Lockwood's Directory for 1920, Pages 368 and 369.

These instruments are carried in stock by Charles A. Anderson & Company, 132 Front Street, New York.

The peculiar construction of this scale, which makes for rigidity, accuracy and economy is covered by Patent issued to E. J. Cady, of the undersigned firm.

**Price \$35.00**

**Securely Packed, F. O. B. Our Factory**

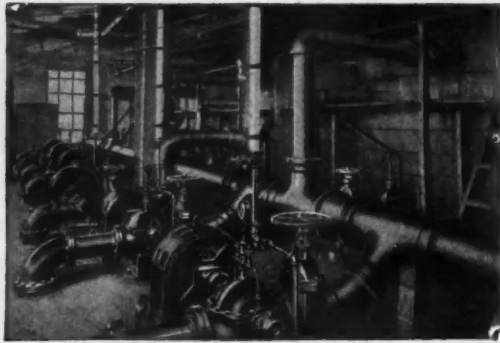
**Made in Chicago, U. S. A.**

**E. J. Cady & Company**

**326 West Madison Street**

**Chicago, Ill.**





## Pump Efficiency Is Worth Money

**A**LL De Laval Centrifugal Pumps are guaranteed as to efficiency and other characteristics and are tested before leaving the works, to insure that the guarantees are fulfilled.

**D**E LAVAL Centrifugal Pumps are ideally suited to motor drive. They have a power-limiting characteristic and no matter how much water is drawn from them, the power used does not exceed the power required at designed normal load. This makes it possible to use a motor operating at its most efficient load without fear of overloading and burning out.

**W**E also supply steam turbine-driven centrifugal pumps directly connected for small quantities and high heads and driven through De Laval Double-helical Speed Reducing Gears for large quantities of water against low heads. The gear makes it possible to operate both pump and turbine at their respectively best speeds for high efficiency. The turbine can be adapted to any steam conditions and the exhaust can be used in processes or for heating or drying, since it contains no oil.

**DE LAVAL  
STEAM TURBINE CO.**  
525 Johnson Avenue, Trenton, N. J.

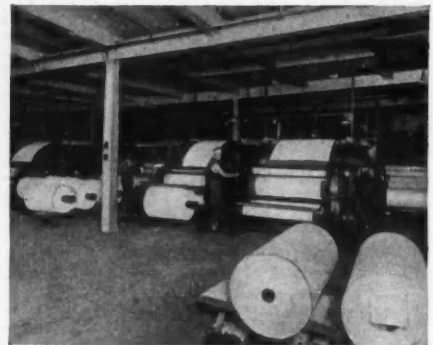
20

# DU PONT

## PULP COLORS

for

GLAZED AND COATED PAPER  
MANUFACTURERS



C. P. Chrome Yellow, L. M. & O.  
Steel Blue  
Glazing Blue  
Frankfort Blue  
Bremen Blue  
Eosine Lake  
Coral Lake  
Maroon Lake  
Granite Lake  
Yellow Lake  
Carmine Maroon  
Wood Black T  
C. P. Chrome Green, L. M. & D.

Made in our Cawley-Clark Plant

WHEN IN ATLANTIC CITY VISIT THE DU PONT PRODUCT  
STORE ON THE BOARDWALK

Sales Department,

**E. I. Du Pont de Nemours & Co., Inc.**

Lithopone, Dry Colors and Pigments Division  
Wilmington, Delaware

New York 21 East 40th St.	Philadelphia 3500 Grays Ferry Road	Chicago McCormack	Boston Harvey Bldg.
Columbus Gagle Bldg.	San Francisco	Los Angeles	Seattle
		L. H. Butcher Company	

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

---



## NOT FIXING PRICES

The Fourdrinier Wire Manufacturers are not “fixing prices” nor attempting to “fix prices.” Every Manufacturer follows his own individual judgment as to the prices at which he quotes or sells.



## BUT MAKING AN “OPEN MARKET”

Through the Bureau which directs its co-operative work, the industry has a board of trade—a medium by which the market becomes open through immediate publication of sales and quotations.

Questions are welcome.



**PAPER MACHINE WIRE MANUFACTURERS' INDUSTRIAL COUNCIL**

*Directed by Armstrong Bureau of Related Industries*

11 La Salle Street, South, Chicago, Illinois

Let us supply you

# NEWPORT SILICATE OF SODA

40° BAUME 42°  
1 DRUM or 100 TANKS

Prompt shipment from Carrollville, Wis.

**NEWPORT CHEMICAL WORKS, INC.**  
PASSAIC, N. J.

## "DRYDEN" KRAFT PULP

Extra Strong, Long Pure  
Sulphate Fibre

Daily Capacity 120,000 Pounds

## KRAFT WRAPPING SHEATHING PAPERS

Daily Capacity 45,000 Pounds.

The Dryden Pulp & Paper Co., Ltd.  
Dryden, Ontario, Canada



*Itinerant Trotskyists may  
as well troloffski*

The classy edition (who said "classic"?) of "A Further Palaver on Paper", just finished by the Roycrofters for us, shoots a lot of interesting dope on KVP—not full of holes either—including some observations of an "outsider" on labor conditions at the mill. Most of the boys and girls out here work with us and not for us, which helps put KVP quality into such of our paper as *you* use.

The book is democratically free!

**Kalamazoo Vegetable Parchment Company**  
KALAMAZOO, MICHIGAN  
*"World's Model Paper Mill"*

Makers of Vegetable Parchment, Bond and Waxed Paper

KVP




 A decorative horizontal banner with a repeating geometric pattern. In the center, the words "DU PONT AMERICAN INDUSTRIES" are written in a bold, sans-serif font. The banner is flanked by two small star-shaped icons.


**A** SELF-CONTAINED American dyestuff industry means, first of all, *protection* to America and American industries.

*Protection* to the nation in time of war in that it furnishes the plants, the technique and the intermediate products for the manufacture of high explosives and poisonous gases.

*Protection* to our one source of supply for the synthetic medicinals that are the chief reliance of medical science in relieving pain and in fighting disease.

*Protection* to the textile, leather, paper, printing ink, paint and other dyestuff consuming industries producing over two and a half billion dollars of manufactured goods a year, employing over one million people and representing upwards of two and one-half billion dollars in invested capital.

*Protection* to industries indirectly dependent on an uninterrupted supply of dyestuffs for their maintenance producing over three billion dollars of manufactured goods a year, employing over a million people and representing nearly two billion dollars in invested capital.

In developing and safeguarding, with every means at our disposal, a self-contained American dyestuff industry, American manufacturers are therefore laying and preserving the very keystone of our national and industrial independence.

E. I. du Pont de Nemours & Co.  
Dyestuffs Sales Dept.  
Wilmington                      Delaware

Branch Offices  
New York                      Boston                      Providence  
Philadelphia                      Chicago  
Charlotte, N. C.


 A decorative horizontal banner with a repeating geometric pattern. In the center, the words "DU PONT" are written in a bold, sans-serif font. The banner is flanked by two small star-shaped icons.

# Editorial

Vol. LXIX      New York, December 4, 1919      No. 23

FORTY-EIGHTH YEAR

## Foreign Trade in Paper

The figures for the exports and imports of paper and manufactures of paper which have just been issued by the Department of Commerce at Washington for the month of September, and which are the latest figures of the foreign trade in paper available, show some interesting comparisons.

The exports of paper and manufactures of paper showed a decrease of about three-quarter million dollars for September as compared with August, the figures for the former month being only \$5,667,733, as compared with \$6,300,399 for the latter. The exports of this commodity for September a year ago amounted to \$4,307,659. The exports of paper and manufactures of paper for the nine months ending with September amounted to \$70,701,359, as compared with \$37,727,717 for the same period in 1918, and \$30,960,125 in 1917.

The exports of news print for September amounted to \$491,359, which was only about half the quantity exported in August, when the foreign sales amounted to \$883,478. The exports of news print for September a year ago amounted to \$659,282, and the exports of this commodity for the nine months ending with September amounted to \$8,477,611, as compared with \$6,366,339 for the same period in 1918 and \$4,213,499 in 1917.

The exports of wrapping paper for September also showed a big decline as compared with August, the figures for the former month being \$371,043, as compared with \$479,253 for August and \$315,209 for September a year ago. The exports of wrapping paper for the nine months ending with September amounted to \$5,282,390, as compared with \$3,382,440 for the same period in 1918 and \$2,616,290 in 1917.

The exports of writing paper and envelopes were among the varieties of paper products to suffer a considerable decline in September, the figures for the month amounting to \$658,011, as compared with \$672,435 for August and \$431,588 for September a year ago. The foreign sales of writing paper and envelopes for the nine months ending with September amounted to \$11,665,698, as compared with only \$4,087,967 for the same period in 1918 and \$2,219,517 in 1917.

The exports of paper board and strawboard for September amounted to \$320,507, as compared with \$398,241 for August and \$294,050 for September a year ago. The foreign sales of this commodity for the nine months ending with September amounted to \$3,855,162, as compared with \$1,987,430 in 1918 and \$1,487,874 in 1917.

The exports of tissue and toilet paper totaled \$117,049 for the month of September, which was a considerable increase over the figures for August, when the foreign sales of this commodity amounted to \$173,556. The figures for September

a year ago amounted to \$162,478. The foreign sales of tissue and toilet paper for the nine months ending with September amounted to \$1,466,923, as compared with \$897,884 for the same period in 1918.

The imports of paper and manufactures of paper for September showed an increase of about half a million dollars for September, the figures for the month being \$4,494,319, as compared with \$4,009,874 for August and \$3,707,920 for September a year ago. The imports of paper and manufactures of paper for the nine months ending with September amounted to \$38,078,828, as compared with \$31,716,674 for the same period in 1918 and \$30,707,981 in 1917.

The imports of printing paper, valued not above 5 cents per pound for September, amounted to \$3,308,723, as compared with \$3,354,431 for the preceding month of August. The figures for September a year ago amounted to \$3,076,726. The imports of this commodity for the nine months ending with September amounted to \$31,184,170, as compared with \$25,821,589 in 1918 and \$22,191,945 in 1917.

The quantity of mechanical pulp imported for September was slightly less than that imported for August, the figures for the former month amounting to \$453,007, as compared with \$480,179 for the latter. The imports of mechanical pulp for the nine months ending with September amounted to \$3,118,472, as compared with \$3,418,054 for the same period in 1918 and \$6,354,653 in 1917.

The imports of chemical pulp for September considerably exceeded that for August, the figures for the first mentioned month being \$2,384,262 and for the latter \$2,006,758. The imports of chemical pulp for the nine months ending with September amounted to \$15,003,894, as compared with \$17,491,072 in 1918 and \$24,522,251 in 1917.

## Failures Below Year Ago

Business failures, according to Bradstreet's, show a tendency to increase as the fall season advances, but the enlargement is not very great; perhaps no larger than the expansion in business, which continues active, warrants. Compared with the low monthly levels of last summer and spring, the increases look larger, expressed in percentages, than does the actual numerical expansion. Compared with the totals for the month of October in other years, the decreases were very marked, especially so when compared with the like month of years of stress such as 1915 and 1914, or even with the so-called normal years such as 1912 and 1913. Liabilities continued small, and there was no reflection in the returns of business mortality of any change for the worse in general business conditions.

There were 475 failures reported to Bradstreet's for the month of October, an increase of 11.5 per cent over September, of 6.2 per cent over August, and of 13.8 per cent over July, the low-water-mark month for failures since they were compiled on that basis. Compared with October a year ago failures showed a decrease of 30 per cent, and the falling off from October, 1917, was 52.7 per cent, while the decrease from the like month of the four preceding years varied from

62 to 67 per cent, the largest percentage of decrease being when compared with 1914, when the great war had attained full dimensions. The decrease from October, 1913, it might be noted, was 62 per cent.

Liabilities for October totaled \$7,350,849, a sum of 12 per cent below those of September, 32 per cent below those of October a year ago, and about one-third those of October of either 1915, 1914 or 1913.

Failures for ten months of 1919 numbered 4,726, a decrease of 42 per cent from a year ago, while 70 per cent smaller than in the year 1915, and liabilities for the ten months' period were \$98,041,226.17, 17 per cent below a year ago, and 60 per cent below 1914.

Following will be found the failures, assets and liabilities in October for twenty-seven years past:

	Number	Assets	Liabilities
1919.....	475	\$2,744,544	\$7,350,849
1918.....	688	5,040,331	10,913,674
1917.....	1,005	6,131,632	13,023,219
1916.....	1,265	5,468,214	11,573,235
1915.....	1,349	8,001,238	16,685,764
1914.....	1,445	12,567,097	23,561,160
1913.....	1,252	10,619,571	21,057,844
1912.....	1,093	5,776,976	13,670,937
1911.....	971	7,573,211	14,907,445
1910.....	867	5,994,112	12,247,902
1909.....	941	4,330,764	10,088,535
1908.....	1,072	6,198,700	17,424,765
1907.....	968	146,916,180	172,675,890
1906.....	797	6,842,982	12,224,518
1905.....	810	6,325,372	12,833,779
1904.....	841	4,736,190	10,323,006
1903.....	910	25,176,067	34,999,716
1902.....	801	4,453,040	8,961,154
1901.....	895	4,236,040	9,501,634
1900.....	885	4,125,356	9,620,855
1899.....	823	2,689,473	6,713,760
1898.....	1,035	8,431,528	14,809,391
1897.....	1,011	5,841,877	10,598,730
1896.....	1,234	9,360,131	16,245,082
1895.....	1,320	10,051,682	19,093,873
1894.....	1,476	7,935,646	14,716,881
1893.....	1,753	36,119,509	54,948,748

The ten months' record for nineteen years past compare as follows:

	Number	Assets	Liabilities
1919.....	4,726	\$47,374,867	\$98,041,226
1918.....	8,261	59,088,210	118,373,638
1917.....	11,085	72,520,958	139,125,537
1916.....	13,884	72,162,251	148,026,931
1915.....	16,048	137,238,569	236,612,421
1914.....	12,981	165,353,622	298,639,077
1913.....	11,652	130,765,630	229,804,589
1912.....	11,399	83,949,503	166,581,396
1911.....	10,266	84,860,063	152,956,868
1910.....	9,428	71,317,666	149,074,273
1909.....	9,712	58,785,074	118,009,560
1908.....	11,763	149,524,735	262,260,259
1907.....	7,861	205,211,599	275,818,124
1906.....	7,669	51,105,799	101,276,480
1905.....	8,233	52,537,848	100,742,108
1904.....	8,559	66,803,980	125,128,838
1903.....	7,804	68,619,740	122,367,878
1902.....	8,262	41,111,871	85,870,278
1901.....	8,710	51,234,504	108,326,333

**National Paper Can Incorporates**

ROCHESTER, N. Y., December 2, 1919.—One hundred per-Corporation, 419 East Lombard street, has incorporated with capital stock 1,000 shares preferred stock, par value \$100 each, and 800 shares common stock of no par value. To manufacture and trade in all appliances for containers or holders of foodstuffs, chemicals and merchandise, etc.

**Greater New York Bag Men Organize**

The Greater New York Bag and Paper Association has just been organized among the dealers of New York and Brooklyn for social and business purposes. Aside from its social features it is considered an organization of this character will be of inestimable value in the disseminating of valuable ideas in the selling of paper products.

The association starts with a membership of sixty merchants and is to hold meetings every other Saturday at 667 Willoughby street, Brooklyn, where permanent headquarters have been established.

The following officers have been elected for the ensuing year: Max Schlauger, president; Morris Rosenfeld, vice-president; J. Jonas, secretary; Isaac Schrier, treasurer.

**Esty Paper Co. Expands**

WORCESTER, MASS., December 1, 1919.—The Charles A. Esty Paper Company has added another leader to its line of papers. The Scott Paper Company products, toilets and towels now heads the list of toilet and towels.

The Charles A. Esty Paper Company announces addition to its sales force of W. J. Reardon, who will represent it in the Worcester trade, handling coarse papers, bags, etc. Mr. Reardon was recently discharged from the U. S. N. R. F., in which organization he served as an ensign on board the U. S. S. Hisko. In addition to Mr. Reardon on the sales force, two men have been added to the shipping room and the firm is forced by increased business to seek more space for its stock.

**Adopt Plans to Save Paper**

PITTSBURGH, PA., December 1, 1919.—Radical increases in advertising and subscription rates and the adoption of plans for conservation of news print paper were subjects included in resolutions adopted here last week by the Western Pennsylvania Association of Dailies, composed of newspaper publishers.

In connection with the paper shortage, speakers presented many remedies, including rationing, reduction of sport and society news, elimination of daily and Sunday comic sections, combination of papers, refusal of all advertising for four or five days, and the publication of four-page daily papers only in Pittsburgh.

**Cascade Wood Products Co. Dissolves**

ALBANY, N. Y., December 1, 1919.—The Cascade Wood Products Company, St. Regis Falls, N. Y., has filed notice of its dissolution with the Secretary of State.

**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"**

**Felts-Jackets**

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.



PAPER AND PAPER STOCK IMPORTS AND EXPORTS OF THE UNITED STATES

For the Month Ending September 30, 1919, and for the Nine Months Ending September 30, 1919, as Compared with Corresponding Months of Three Previous Years.

IMPORTS—PAPER.

PAPER AND MANUFACTURES OF.	September				Nine Months Ended September 30—					
	1918.		1919.		1917.		1918.		1919.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Books, music, maps, engravings, etchings, photographs and other printed matter.....	Free	\$205,833	.....	\$5 3,807	.....	\$2,522,611	.....	\$1,511,011	.....	\$2,516,971
Dealcomania paper, not printed.....	Dut.	73,719	.....	165,127	.....	1,088,845	.....	677,554	.....	858,253
Lithographic labels and prints (except post cards).....	Free	14,576	.....	12,117	.....	112,294	.....	99,861	.....	100,789
Paper hangings.....	Dut.	19,671	21,607	25,500	33,910	244,698	.....	186,761	123,302	148,200
Photographic.....	Dut.	7,926	.....	9,091	.....	249,122	.....	136,252	.....	54,404
PRINTING PAPER FOR BOOKS AND NEWS-PAPERS—		60,930	20,139	3,410	5,154	526,466	.....	158,159	237,662	112,533
Valued at not above 5 cents per pound.										
All other.....	Free	105,636,677	3,076,728	93,147,032	3,308,723	813,546,935	22,191,945	896,021,897	25,821,589	908,280,183
Post cards, souvenir.....	Dut.	11,249	4,630	2,312	1,057	316,790	55,950	143,307	20,467	100,117
Pulp board, in rolls, not laminated.....	Dut.	1,556	.....	.....	4,788	.....	44,884	.....	18,076	.....
Surface-coated.....	Dut.	6,097,315	142,211	7,712,666	196,736	.....	16,594,240	373,275	63,289,268	1,588,668
Wrapping.....	Dut.	21,307	5,052	1,825	1,982	444,750	73,657	39,097	51,732	30,291
All other.....	Dut.	836,310	65,146	766,259	63,771	5,597,287	392,115	6,442,036	424,086	3,549,974
Total paper and manufactures of.....		8,578,527	\$295,397	33,440,700	\$1,088,776	.....	\$4,575,843	.....	\$2,156,934	121,248,847
										\$3,825,446

CRUDE PAPER STOCK.

	1918.	1919.	1917.	1918.	1919.
Paper stock other than woolen.....	307,526	\$19,330	18,815,605	\$552,944	33,361,815
All other kinds of paper stock.....	8,271,001	186,067	16,625,145	535,832	3,669,270
Total.....	8,578,527	\$295,397	33,440,700	\$1,088,776	.....

WOOD PULP.

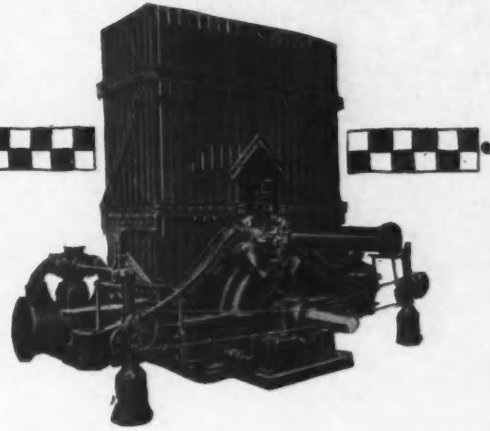
	1918.	1919.	1917.	1918.	1919.
Mechanically ground.....	18,445	\$445,878	16,601	\$453,007	197,463
Imported from—					
Canada.....	17,445	\$445,878	16,601	453,007	178,686
Other countries.....	.....	.....	.....	.....	18,777
Chemical—					
Unbleached—					
Sulphate.....	8,723	\$663,927	10,654	\$761,165	73,562
Sulphite.....	22,864	1,858,372	21,691	1,623,097	183,819
Total.....	31,407	\$2,322,299	32,345	\$2,384,262	257,381
Imported from—					
Norway.....	.....	.....	755	\$87,205	7,421
Sweden.....	.....	.....	1,388	148,879	112,718
Canada.....	31,407	2,322,299	26,916	1,896,014	136,818
Other countries.....	.....	.....	3,286	252,164	424
Bleached—					
Sulphate.....	949	\$7,701	618	\$6,422	933
Sulphite.....	1,131	103,204	6,290	724,848	33,522
Total.....	2,080	\$200,905	6,917	\$781,270	34,455
Imported from—					
Norway.....	.....	.....	880	\$132,425	13,758
Sweden.....	.....	.....	2,254	233,901	11,072
Canada.....	2,080	200,905	3,783	414,944	8,754
Other countries.....	.....	.....	.....	.....	871

CHEMICALS AND OTHER PAPER MAKERS' SUPPLIES.

	1918.	1919.	1917.	1918.	1919.
Colors or dyes, n.e.s.....	217,939	\$331,407	285,327	\$398,636	.....
Imported from—					
Germany.....	.....	.....	1,474	\$658	.....
Switzerland.....	148,352	237,683	81,412	145,084	1,432,914
United Kingdom.....	64,081	64,949	76,016	84,844	408,577
Other countries.....	5,506	8,775	126,425	168,550	72,528
Indigo, natural and synthetic—					
Natural.....	64,755	\$96,007	2,901	\$2,060	1,756,851
Synthetic.....	2,189	8,222	.....	.....	1,093,890
Alizarin and alizarin dyes.....	440	572	1,373	472	15,787
Lactarene or casein.....	58,240	8,154	1,251,408	159,488	10,540,862
Lime, chloride of.....	222,081	4,993	42,208	549	4,000
Magnesia, not purified.....	2,962	130,059	2,785	64,249	4,180,277
Potash, hydrate of.....	.....	.....	.....	.....	56,997
Sulphur or brimstone.....	.....	.....	.....	.....	833
China clay or kaolin.....	6,636	48,778	14,391	180,672	80,633

(Continued on page 42)

*Economize!*



INSTALLATION of the Voith Automatic Magazine Grinder effects certain economies that will be welcomed by every paper manufacturer. Being fully automatic the Voith makes it possible for you to cut down the pay roll. You will find that power costs on the Voith are almost nil compared with those of other grinders. The Voith is a decidedly compact machine—it needs less floor space but accomplishes more than many of the bulkier types of machines.

The Voith Automatic Machine Grinder produces a high quality pulp of just the right consistency at a decided reduction in labor costs, power costs, and floor space—three factors that play mighty important parts in today's manufacturing program. You will find the Voith Catalog extremely interesting—even if you are not on the market at present for a grinder the Voith Catalog will be a source of information, every paper manufacturer needs.

J. M. VOITH COMPANY, INC  
200 Fifth Ave., New York

**VOITH**  
**Automatic Grinder**

ES  
ing  
1,170  
2,748  
2,398  
4  
3,698  
10,291  
8,163  
1,301  
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8,472  
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27,067  
76,827  
38,894  
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18,692  
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71,819  
70,683  
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19,696  
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33,267  
00,004  
85,056  
16,302  
60,992  
00,792  
107,929  
62,506  
19,353  
17,225  
80,430  
6,502  
115,077  
132,558  
1,815  
124,886

PAPER AND PAPER STOCK IMPORTS AND EXPORTS OF THE UNITED STATES

(Continued from page 40)

PULP WOOD

PAPER AND MANUFACTURES OF	September				Nine Months Ended September 30					
	1918		1919		1917		1918		1919	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Rough.....cords. free..	43,879	\$436,856	24,682	\$247,743	162,813	\$1,150,922	230,089	\$2,083,423	200,591	\$1,906,248
Peeled.....cords. free..	67,814	662,990	29,405	290,385	511,588	3,842,598	809,651	7,820,102	592,525	5,776,527
Rosined.....cords. free..	15,929	193,505	12,910	167,136	109,465	1,118,378	78,287	904,390	77,915	1,019,940
Total pulp wood.....cords..	127,622	\$1,283,351	66,997	\$705,267	783,666	\$6,118,898	1,111,027	\$10,807,894	871,031	\$8,702,415

EXPORTS—PAPER.

Hags.....		55,331		75,359		809,727		653,275		1,106,468
Books, music, maps, engravings, etchings, photographs and other printed matter.....		1,010,778		1,992,395		7,564,769		8,082,290		13,331,846
Boxes and cartons.....		63,855		105,728		845,514		711,868		990,982
Carbon paper.....		46,304		55,566		398,447		350,522		755,482
Cash register and adding machine paper.....		14,347		8,389		21,168		90,206		118,268
Paper board and strawboard.....		294,050		320,507		1,487,874		1,987,430		3,855,162
Paper hangings.....		25,071		68,481		350,787		357,389		644,870
Playing cards.....		56,198		70,470		229,365		622,850		1,270,380
PRINTING PAPER— News print.....lbs.	16,089,981	\$658,282	9,463,866	\$491,539	109,518,089	\$4,213,499	155,447,321	\$6,366,339	186,955,453	\$8,477,811
Exported to—	4,575,752	\$159,386					35,255,067	\$1,401,995	36,934,525	\$1,554,436
United Kingdom.....			2,055,189	96,420	1,718,957	56,102	3,071,221	177,327	5,194,611	240,860
Canada.....	78,607	5,508	294,198	15,967	509,183	24,996	402,553	26,358	762,483	41,512
Mexico.....	469,585	21,607	56,598	3,043	10,185,247	459,961	4,581,716	171,936	2,881,250	142,530
Cuba.....	1,650,060	65,276	2,061,238	93,686	10,667,839	385,432	14,161,364	519,556	14,716,030	672,678
Argentina.....	2,728,268	105,594	1,801,291	85,846	27,285,254	928,644	29,053,402	1,102,787	44,894,888	1,835,276
Chile.....	823,477	32,607	81,465	5,683	7,739,493	239,007	8,242,254	349,032	4,649,729	192,368
Other South America.....	1,770,743	76,016	869,743	35,017	24,707,094	1,044,389	23,355,040	967,737	40,004,593	1,813,966
Australia.....	1,156,632	54,515	267,917	12,184	8,458,280	327,574	14,167,311	551,013	11,039,175	497,333
Other countries.....	2,826,797	187,803	2,176,227	143,693	18,247,842	717,344	23,157,093	1,098,548	25,888,160	1,479,664
All other.....lbs..	6,988,705	\$635,867	7,637,909	\$791,726	71,793,249	\$6,215,998	67,306,394	\$5,749,838	135,256,864	\$14,172,933
Exported to—										
United Kingdom.....	2,325	\$213	413,219	\$52,815	3,618,689	\$254,971	734,269	\$70,845	1,572,268	\$228,973
Canada.....	1,088,595	94,361	1,413,500	136,908	6,179,491	583,661	5,454,224	478,400	5,204,185	582,540
Mexico.....	66,089	6,156	210,572	26,308	3,504,119	309,088	981,633	51,208	3,993,661	376,622
Cuba.....	863,993	93,798	720,658	34,061	7,467,498	636,155	8,167,461	793,113	7,076,604	798,382
Argentina.....	190,545	22,473	1,460,818	148,962	7,801,229	737,838	6,470,447	550,660	25,275,309	2,596,262
Brazil.....	463,611	47,820	547,051	62,107	10,737,691	969,695	6,819,642	586,416	12,721,510	1,346,679
Chile.....	575,558	49,164	116,283	14,048	5,767,582	533,375	3,510,760	281,703	4,347,395	542,212
Other South America.....	385,203	35,796	498,201	44,208	6,942,201	608,748	2,622,218	250,681	4,115,371	398,320
Japan.....	1,342,082	115,878	381,867	35,939	2,524,550	232,134	9,638,573	798,543	10,522,346	2,187,661
Australia.....	1,213,856	93,792	432,952	39,138	7,324,743	517,484	10,246,560	766,471	22,018,358	2,096,981
Other countries.....	796,848	77,416	1,170,858	115,956	9,895,476	835,849	8,793,373	767,173	24,122,910	2,437,729
Tissue and toilet paper.....		\$162,478		\$117,049		\$140,614		\$897,884		\$1,465,923
Towels and napkins.....		5,354		12,359		21,055		62,444		131,013
Wax paper.....		17,004		9,526		26,354		136,959		492,109
Wrapping paper.....lbs.	4,137,088	315,209	4,348,558	371,043	35,337,929	2,616,290	44,117,245	3,382,450	57,769,710	5,282,590
Writing paper and envelopes.....		431,588		658,011		2,219,517		4,087,397		11,565,689
All other paper.....		514,043		519,614		3,799,117		4,171,015		6,939,810
Total paper and Manufactures of.....		\$4,307,659		5,667,733		\$30,960,125		\$37,727,717		\$70,701,300

WOOD PULP AND PAPER STOCK

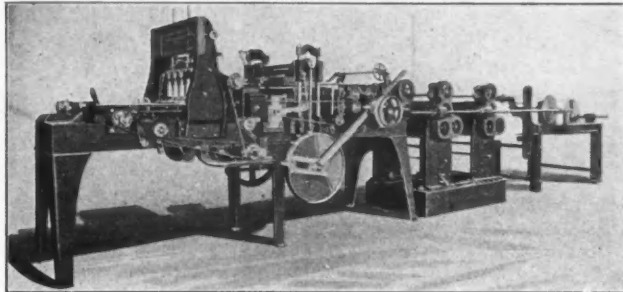
Paper stock, rags and other.....lbs...	2,579,282	\$62,731	5,870,144	\$195,895	22,251,843	\$547,280	25,707,615	\$504,954	34,520,194	\$954,910
Wood pulp.....tons...	1,918	107,230	3,882	325,222	20,800	1,962,469	16,885	1,452,633	26,524	2,246,721

MISCELLANEOUS ITEMS

Rosin.....bbls..	96,353	\$1,095,119	140,001	\$2,717,208	1,125,127	\$7,567,278	604,073	\$5,276,157	894,188	\$14,253,149
Exported to—										
Italy.....			10	\$500	36,554	\$217,802	26	\$184	18,460	\$269,177
Netherlands.....			1,301	26,041					22,832	366,539
Norway.....	10,528	102,288	155	3,200	3,015	21,622	11,146	108,027	6,686	103,755
Sweden.....			2,952	51,206	1,964	13,451			16,377	265,408
United Kingdom.....	39,439	479,771	78,442	1,553,547	475,979	3,197,061	127,029	1,227,534	450,288	7,358,861
Canada.....	10,828	115,903	7,916	164,969	127,928	833,156	112,015	886,739	42,496	663,850
Cuba.....	2,935	34,434	1,793	36,072	23,976	145,989	20,480	163,708	16,911	253,479
Argentina.....	3,104	35,700	2,928	48,699	135,613	917,794	52,165	460,834	83,891	1,300,739
Brazil.....	7,101	72,266	12,622	243,753	108,341	722,567	78,343	650,837	99,438	1,516,787
Uruguay.....	4,795	68,000	2,056	31,200	22,144	151,626	23,972	236,537	20,364	310,247
Dutch East Indies.....	902	6,142	701	8,508	39,924	293,108	14,489	119,076	12,293	199,794
Japan.....	7,096	79,953	13,711	246,905	49,366	371,204	68,867	606,305	36,246	635,361
Australia.....	3,222	25,709	999	17,374	41,526	290,554	40,565	328,799	8,686	106,582
Other countries.....	6,403	76,953	14,175	285,234	58,797	391,374	54,976	487,597	58,720	932,658
Dyes and dyestuffs.....						7,152,089				
Sulphur or brimstone.....tons.	8,116	229,564	26,717	763,346	108,782	2,365,375	97,280	2,777,962	114,644	3,683,042
Sulphuric.....lbs..	8,326,269	119,513	2,385,359	49,595	48,975,586	746,352	61,565,649	993,334	13,793,503	333,167
Paper and pulp mill machinery.....		131,143		357,254		1,480,669		1,248,535		3,242,315



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**T**AKES the paper board from the roll, prints, cut, creases, pastes, sets-up and delivers paper boxes complete with one operator. The most economical method in use for producing paper boxes.

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INMAN COLLAPSIBLE CORE (Patented)

**I**NDISPENSIBLE for use in winding an even, hard roll of paper or paper board.

Heavy board will not break and roll cannot crush flat.

Insure more satisfactory operation; larger production, and eliminates waste.

Practically indestructible. Collapsible for return shipment. Price reasonable.

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**Amsterdam, New York**

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

Metanil Yellow 1955  
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Basic Colors combine brightness of shade with good tinctorial power, but are not so impervious to light.

Auramine N A C  
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Methylene Blue 2 B  
Fuchsine P

## National Aniline & Chemical Company

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21 Burling Slip, New York

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with Leather Disc

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# PAPER BAGS

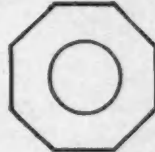
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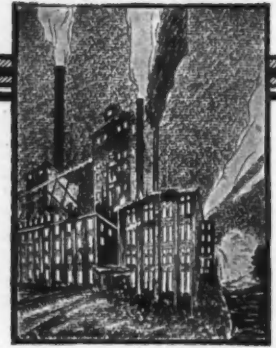
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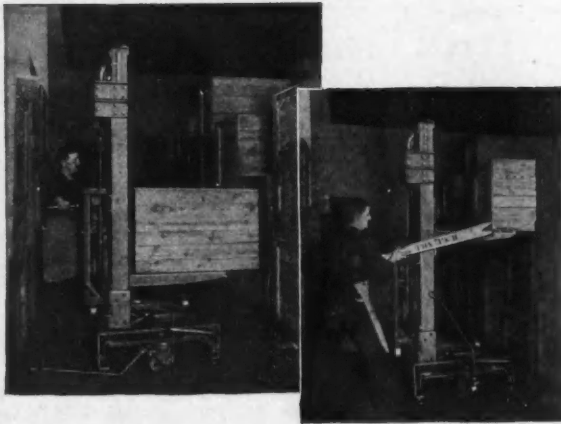
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ALL ARE GIVING SATISFACTION ON

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It's a hard job for a "gang" to pile them, let alone one man. But why not make it a one man job? Why not "hit the high spots" and pile to the ceiling? IT'S DONE—notice how one man with a REVOLVATOR "turns the trick."

A REVOLVATOR is a "Steel Giant" that piles to the top—made in six styles of revolving and non-revolving types, operated by hand, motor and combination hand and motor.

*Bulletin P. T.-60 tells more.*

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Sales Agents for New York Revolving Portable Elevator Co.  
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A sample of our new  
"X" type (soluble in  
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Established 1875

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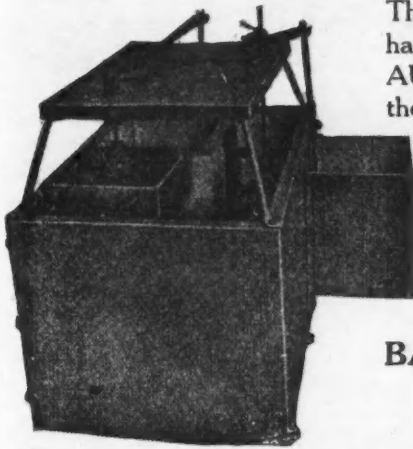
All Sizes, to Suit Locations  
No Proposition too Large or Small

**WRITE OR WIRE**

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**NORWOOD ENGINEERING COMPANY**  
FLORENCE, MASS.





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

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

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

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Why Enlarge Your Beater Room?

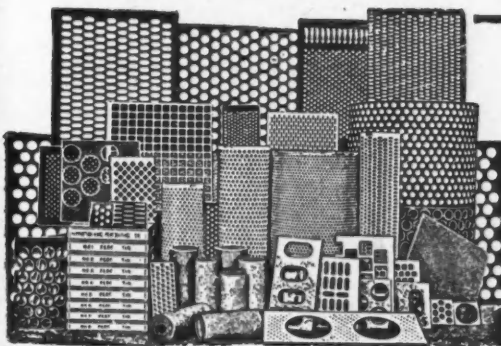


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This beater reduces stock to fibre of equal or better quality in half to one quarter of the time and with a saving of power which is remarkable. Do not take our word. Investigate. Manufactured by

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



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

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The Rag-Content Loft-dried  
Paper at the Reasonable Price

*Mills at Bangor and Lincoln, Maine*

**EASTERN MANUFACTURING COMPANY**  
501 FIFTH AVENUE NEW YORK

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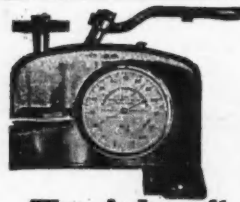
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Made in Kalamazoo, Michigan

**SUTHERLAND PAPER CO.**

*Inquiries from Jobbers solicited.*



**The Ashcroft  
Paper Tester**



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Thickness Gauge**

Actual necessities for all those who make, sell or purchase paper in any form. The thousands in daily use testify to their efficiency.

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ESTABLISHED 1942

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Our Boards and Papers lie flat, hang straight, and register because they are made right. Orders for regular or special sizes are given prompt attention. Quality guaranteed.

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**“DRAPER”  
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*For Any Grade of Paper or Pulp*

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*To Give Entire Satisfaction*

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**DRAPER BROS. CO., CANTON, MASS.**

**The Barrel Industry Revolutionized  
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Manufacturing and Territorial Rights Obtainable Under Liberal Contract

**STAVES**

Each Barrel is made with 12 uniform interchangeable fibre staves, making a package that can be shipped, knocked-down and used for repeated transportation.



**HEADS**

The heads are made in one piece, providing maximum strength and adding to the simplicity of assembling. Standard Steel or wooden hoops are used.

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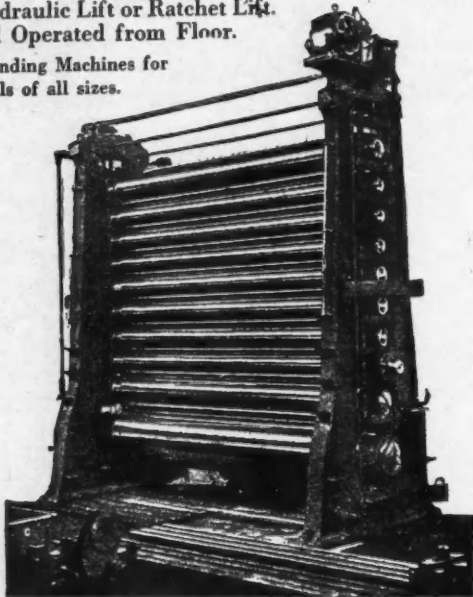
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Furnished Complete, with Electric Motor Lift,  
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All Operated from Floor.

Grinding Machines for  
Rolls of all sizes.

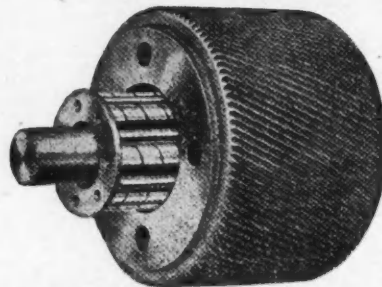


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For Redressing Pulp Mill Stones



WE MAKE ALL STYLES OF  
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Tare Ream  
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Dormant Platform Type

## Automatic Weighing

**SAVES TIME -- LABOR -- MONEY**

The Kron Scale performs automatically the whole weighing operation, weighing the material as fast as it can be handled. It eliminates all false motions. There's no waiting for the pointer to come to rest—no fussing with weights. There's no chance for errors or guesswork. The correct weight is shown at a glance.

*"Load and Look"*

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**AUTOMATIC**

(Made in U. S. A.)

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**There's a Kron for Every Weighing Purpose**

All Types. Any Capacity. *Dormant or Portable—Hanging Pan Types—Overhead Track Scales—Suspension Crane Scales, etc.*

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**Blotting Paper of the Best Quality**

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Manufacturers of Blotting, Matrix, Filter and all other grades of absorbent papers.

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Graders and  
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IMPORTERS OF

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**CHEMICAL and MECHANICAL  
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Chemicals of All Descriptions*

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**Van Noorden Skylights**

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**Indispensable**

To work by the Sun—  
Means twice the work done.



To a modern Paper Mill as its important inner equipment. "DAYLITE" means Nature's light without weather or condensation drip.

**E. VAN NOORDEN & CO.** 103 Magazine St. Boston, Mass.

## New York Market Review

OFFICE OF THE PAPER TRADE JOURNAL,

WEDNESDAY, December 3, 1919

There is a general boom in paper in New York. Demand for every grade of paper is stronger than it has been for some time. Now that the printers' strike is about settled, and most of the job printers are again in full operation, book paper as well as news print is on the ascendancy.

News print is still climbing up the price ladder this week. Spot rolls are selling around 7.75@8.50, while still higher prices are rumored.

Book paper has strengthened in price in the M. F. and S. and S. C. grades, and there is every probability of increased prices in the other grades. Demand for book is stronger this week than it has been since the strike began here.

Other grades of paper have also shown indications of strengthening in the market. While as yet there is no change in the price of tissue or wrapping papers, boards have strengthened materially, and writing and bonds are promising further increases shortly.

### Mechanical Pulp

The mechanical pulp situation does not seem to be alleviated in any way this week. Demand has been at high pitch for some time, and supply is considerably restricted. Spot wood pulp is selling at \$45 the ton, when available, but there has been very little activity in this line this week.

### Chemical Pulp

All grades of chemical pulp are showing a decidedly steady-tendency this week. Prices show a very slight upward trend, but have remained stationary for nearly a month. Trade, however, is very active, and shipments heavy.

### Rags

Keeping in line with the rest of the paper market, the rag market has been strengthening all week. Thirds and blues, as well as No. 1 whites have advanced in price, and several other grades indicate immediate increases. Demand for the better grades of rags is very strong, and apparently the cheaper grades will be somewhat higher in price within a week.

### Old Ropes and Bagging

Although the prices of all grades of old ropes and baggings are unchanged this week, the market is far more active than it was last, and the demand is brisk and normal. The general tendency seems to be upward, and if the market maintains its present activity very long, advances will undoubtedly result.

### Paper Stock

Due to the strike of the small paper stock sorters and dealers this week, all grades of paper stock are threatening sudden advances in New York. Mixed papers and common paper, as well as old Manilas have strengthened in price, while other grades are expected to go up shortly. Demand is nearly as brisk as that in the rag market, and shipments are proportionately heavy.

## BIDS AND SPECIFICATIONS

(Continued from page 26)

Mudge will furnish 10,000 pounds (5,000 sheets) of 22x26 No. 25 binders' board at \$74.50 per ton. Bids for all of these items were opened on November 24.

The following paper awards have been announced:

The Holyoke Card & Paper Company will furnish 8,000 pounds (40 reams) of 22½x28½—200 orange cardboard, at \$35.00 per 1,000. Carter, Rice & Co. will furnish 8,000 pounds

(40 reams) of the same size white Chania board at \$36.50. Bids for these items were opened on November 17.

The American Writing Paper Company will furnish 190,000 pounds (5,000 reams) of No. 1 white M. F. printing paper, 24x38—38, at \$1.075 per pound, and the Old Dominion Company will furnish an additional lot of 50,000 pounds of the same at \$1.0398. Bids for the original amount were opened on November 21.

250,000 pounds of white S. & S. C. printing paper in 38" rolls, basis 25x38—45, will be furnished by the American Writing Paper Company, at \$1.055 per pound, and the Kerr Paper Company will furnish 15,000 pounds (3,000 sheets) of 34x44—No. 10 trunk board at \$0.385 per pound. Bids for these items were opened on November 26.

### Panama Canal Awards

The Whitaker Paper Company has been awarded the contract by the Purchasing Officer of the Panama Canal for furnishing 20 reams (10,000 sheets) of 24x33, 95, shamrock green cover paper, at \$346.80, and the same firm will also furnish 20 reams (10,000 sheets) of 24x33, 95, cadet blue cover paper at \$308.80. Bids for these items were opened on November 21.

### Study Vibration in Structures

Four years ago the Alberthaw Construction Company started an investigation on the vibration of buildings, particularly manufacturing buildings. The study was intended to cover not only the causes of vibration, but also the effects on the structure, on the machinery installed, on the health and well being of the workers, and on the quantity and quality of production.

A preliminary report was published in the fall of 1916; but our entry into the war, and the many new problems which that brought, put a summary stop to the work. It is now being taken up again with the idea of following it through to a point where a complete report can be published. The Alberthaw Construction Company will therefore be glad to have engineers, manufacturers and others having knowledge of the subject, or having had specific experiences which would throw light on any of its phases, communicate with the company at 27 School street, Boston.

The previous work on this problem showed a wide diversity of opinion on some of its angles. It also developed that there is very little quantitative information extant which can be relied upon as giving authoritative data. It is particularly desired, therefore, that information of this character, however limited in its application, may be made available for the study.

### Beaver Board Companies to Expand

TONAWANDA, N. Y., December 1, 1919.—The recent announcement by the Beaver Board Companies of Buffalo, of which the Tonawanda Board and Paper Company is now a unit, that considerable effort will be expended in developing this plant, indicates that it will continue to be one of Tonawanda's leading industries.

The Tonawanda Board and Paper Company is very advantageously situated on the banks of the Niagara River and Tonawanda Creek, and has long been considered one of the best plants of its kind in the United States. Part of the program of the Beaver Board Companies is to greatly improve the dock facilities, so that cargoes of fibre can be brought here direct from other Beaver Board operations.

The plant will continue its manufacture of shipping containers, and will also be used for experimental development of Beaver Board products, and as an equalizing unit to convert fibre into Beaver Board, to balance production while other mills are being constructed.



Market Quotations

Paper Company Securities

New York Stock Exchange closing quotations, December 2, 1919.

Table with columns: Stocks, Bid, Asked. Includes American Writing Paper Company, International Paper Company, etc.

BONDS.

Table with columns: Bonds, Bid, Asked. Includes International Paper Co., Convertible S. F. 5s, 1935...

Paper

Table listing various paper products like Bonds, Ledgers, Writing, Extra Superfine, etc. with prices.

Table listing various paper products like Silesias, Washables, Cottons, Whites, etc. with prices.

Foreign Rags

Table listing foreign rags like New White Cuttings, Unbleached Cottons, etc. with prices.

Mechanical Pulp

Table listing mechanical pulp products like No. 1 f. o. b. Mill, etc. with prices.

Chemical Pulp

Table listing chemical pulp products like Sulphite (Foreign), Bleached, etc. with prices.

Domestic Rags

Table listing domestic rags like Shirt Cuttings, New White, etc. with prices.

Table listing various paper products like Finished Jute, Jute Wrapping, Tube Rope, etc. with prices.

Table listing Old Waste Papers like Shavings, Hard White, etc. with prices.

CHICAGO

[FROM OUR REGULAR CORRESPONDENT.]

Table listing Chicago paper products like Paper, Mill Price to Jobbers, Rag Bond, etc. with prices.

Table listing Chicago Old Papers like Shavings, No. 1 Hard, etc. with prices.

BOSTON

[FROM OUR REGULAR CORRESPONDENT.]

Table listing Boston paper products like Paper, Bonds, Ledgers, etc. with prices.

Table listing Boston Old Papers like Shavings, No. 1 Hard, etc. with prices.

(Continued on page 58)

## CONDITIONS OF THE PAPER TRADE IN GERMANY

BERLIN, October 5, 1919.—For the specific purpose of facilitating exports of paper products an organization of the whole paper, pulp and pasteboard industry is now being formed. All paper exports are to pass through the central office of this new organization, which is not to be under government control but autonomous, although the government is expected to pay part of the expenses.

The central organization is expected to overcome many of the difficulties caused by the rate of exchange, tight credit and other troubles, seemingly unsurmountable to the individual producer.

### Will Attempt to Regain Foreign Markets

German manufacturers will attempt to regain some of the foreign markets, although they know it will be a difficult task, not to repeat them in the future. The following self-criticism is published in the official journal of the National Paper Manufacturers Association:

"Every export, at bottom, is merely utilization of superfluous material, labor being considered the noblest form of material. The same as there are individuals who fail to properly utilize their exuberance of force there are also industries and trades who commit similar sins. Germans, for instance, have been charged by the British with underselling them in the markets of the world, with selling goods too cheap and unnecessarily so. This is what the English call 'dumping.' It is true the Germans did sell cheaper in foreign countries than at home. But we have not been the only transgressors in this respect. Of course, we expected, in accepting foreign orders at low prices, to reduce cost by increased production. Our competitive spirit, no doubt, was stimulated by national pride and a desire to beat the next cheapest producer. Then again the interest of the intermediary had its influence. The intermediary cared for his commission in the first place. These practices of underselling have given German producers a bad name in the markets of the world, which, in the long run, tended to injure our industries.

"To-day Germany is very poor. Public interest requires a complete utilization of all values. Whatever the nation owns and produces will have to be turned to profit. There is danger that the unscrupulous will turn to exporting merely for the purpose of speculating in the rate of exchange fluctuations. This is bound to discredit German exporters and would ruin all prospect of a permanent export trade on a sound basis. For this reason the whole export business of the paper industry should be controlled by a central office established by all the allied industries in combination. This combination alone will be able to put an end to mere speculation in money values."

### Economic Paper Group

In combining whole industries the German paper manufacturers already have some experience. The "Economic Group Paper" is a fact, although it was organized only a few weeks ago. This group takes in the manufacturer as well as the consumer. Constitution and by-laws of the new organization were adopted by representatives of both parties the other day. Producers and consumers have their respective separate organizations, both joining in forming the "Group."

The "Group" is organized after the pattern of the League of Nations, it would seem. Regular conventions or sessions are to be held, consumers and producers being entitled to 12 delegates each. All resolutions, to be valid, must be adopted unanimously. Officers are to be elected by unanimous vote only. Each half of the "Group" elects five members of a council which also can pass resolution only with the consent of all members.

"The Economic Group Paper" is a new experiment in the field of social progress. Its object is to interest both producer and

consumer in their mutual, independent benefit. Consumers, as the term is being used here, of course means large customers of paper manufacturers, such as publishers, manufacturers of paper goods, spinners of paper yarns and manufacturers of paper textiles. It is expected that other German industries will follow the paper men's lead and organize similar groups in other lines of industry.

The annual convention of German cellulose manufacturers adopted a resolution pointing out the national danger involved in crippling the cellulose industry by withholding coal from the plants. The association could well afford to emphasize the need of protecting home industries against foreign competition, the rate of exchange barring foreign materials. Without the home product Germany would have to go without cellulose.

### New Plant at Penig

At Penig, for years the seat of the largest paper manufacturing plant in Germany, if not in all Europe, a new large plant, costing two and a half million marks to build, has just been opened. It is called the Papyrolast Mills Penig and is to initiate an entirely new branch of the German paper industry. It is to manufacture containers, principally barrels. It is expected to turn out fifteen million barrels annually. The latest devices in the art of paper making are used in the new factory.

An echo of the paper shortage caused by the war: Fabulous prices are being offered for emergency postage stamps printed by the new republic of Esthonia. The only stocks of paper on hand in Esthonia were maps left behind by the general staff of the German army. So the new republic decided to cut up the German maps and use them as postage stamps. These franks are supposed to be the most unique in the history of the world since paper was manufactured.

### National Roof Paper Association

The German tar and roof paper manufacturers have formed a national organization for the purpose of buying their foreign materials in unison. Thus they expect to prevent profiteers from taking advantage of the situation and raising the price of raw materials to German buyers. A rise in the price of raw materials would cause some of the plants to cease operating, it is said. Germany would not be able to compete with foreign countries in the sale of the finished product. The object of the new organization is twofold: to keep down the price of raw materials and to keep up the price of the finished product.

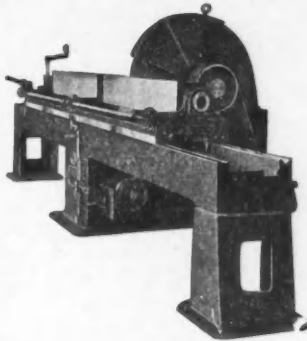
### Styles in Paper Shirts

German manufacturers of paper shirts have been complaining of modern habits deteriorating. Paper shirts are being worn too long to suit the manufacturers. Now an inventor has come to their rescue. He has invented the serial novel bosom shirt. Every wearer of this shirt is expected to tear off a sheet of the paper bosom and show a fresh clean front every day. To make sure that a sheet is torn off at least once every day, the inventor has printed on the back of each sheet an instalment of a soul-stirring novel written by a famous author.

### Grand Lake Bag Co. to Open Detroit Branch

DETROIT, MICH., December 3, 1919.—Silbar & Co., representing Grand Lake Paper Bag Company of New York City in the State of Michigan, with a stock at Grand Rapids, will open a selling branch at 66 Humboldt avenue, Detroit, Mich., in charge of H. W. Bartel, formerly connected with Beecher-Peck & Lewis. From this office the jobbing trade in Eastern Michigan and Northern Ohio will be covered.

**ACCURATE KNIFE GRINDING  
FULL AUTOMATIC MACHINES**



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

*Write for Latest General Catalog*

**MACHINERY COMPANY OF AMERICA**  
BIG RAPIDS, MICHIGAN, U. S. A.

Western Branch, 209 First Ave. So. Seattle, Wash.

*Specialist in Saw and Knife Fitting Machinery*

ESTABLISHED 1851

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FOREIGN and DOMESTIC  
Paper Stock  
New Cuttings  
and Rags  
Jute Stock  
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and Soda Pulps  
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**CASTLE, GOTTHEIL & OVERTON**

Our New Prices will interest you on  
**"TIPASAKI" "DANDY"**



The two reliable  
Toilet Paper Rolls  
for count and  
quality. 1000 and  
2000 sheets, re-  
spectively.

*Manufactured by*

**The Tissue Paper Syndicate, Inc.**

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*Write for Samples and Prices*

**WE SELL JOBBERS ONLY.**



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FOR EXPORT ONLY

Exclusive Representatives of the

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# The Mathieson Alkali Works, Inc.

WORKS AT

SALTVILLE, VIRGINIA and at  
NIAGARA FALLS, NEW YORK

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## “Eagle-Thistle” Brand BLEACHING POWDER

HIGH TEST

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

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## LIQUID CHLORINE

Pure, anhydrous, in improved and convenient packages.

### Soda Ash

48 per cent. and 58 per cent.

### Caustic Soda

60 per cent., 70 per cent., 72 per cent., 74 per cent., 76 per cent.; also 78 per cent. Our 78 per cent. Caustic Soda is an article of greater purity than has ever before been produced in a commercial way, analyzing 99.70 Hydrate of Soda

### Bicarbonate of Soda

Packed in Kegs Barrels or Bags; also Cases

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BOSTON: 88 Broad Street

PHILADELPHIA: Delaware Ave. and Green St.

CHARLOTTE, N. C.

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**WAX PAPER** and Glacine Salesman who knows and is acquainted with the consuming trade, is offered a solid opportunity by a concern specializing along these lines. Your letter held in strictest personal confidence, and will be returned to you. Address, Box 1774, care Paper Trade Journal. D-4

**WANTED**—Selling Agent for important Rag, Rope and Waste Paper Business. Must have occupied good position in Paper Mill and be able to appreciate qualities and sorting. Give references. No dealers. Address, Box 1775, care Paper Trade Journal. D-4

**WOOD PULP SALESMAN**, competent of doing extensive business in imported and domestic pulps. Must be thoroughly acquainted with paper trade. Apply in confidence to Box 1776, care Paper Trade Journal. D-4

**WANTED**—In Eastern New York Mill, experienced back tender on Cylinder Machine making Rope Papers; 48-hour week. Apply Box 1777, care Paper Trade Journal. D-4

**SALESMAN**—Experienced and nothing else, acquainted with buyers in the following territory: New York State, New Jersey, Maryland, Eastern Pennsylvania, District of Columbia and New England States, to sell an extensive line of Toilet Paper, Paper Bags and kindred products. Excellent opportunity for hard workers. Address, Box 1778, care Paper Trade Journal. D-4

**WANTED**—Man to run three-ply fibre pasting machine. Address, Box 1779, care Paper Trade Journal. D-11

**REPRESENTATIVE OF BUYING AGENT** wanted by old established British concern to sell their lubricating specialties (Solid Oils) for paper-making machinery. These lubricants have for many years been extensively used in the Paper Mills in Britain and advertisers wish to increase their trade in other markets. Good terms given to applicants who must be of sound financial standing and with good connection among the Paper Mills in U. S. A. Apply to Thomas Hinselwood & Co., Ltd., 130 Glenpark street, Glasgow, Britain. D-4

**BOSS MILLWRIGHT** for Paper and Pulp Mill repairs. Must be reliable, a hustler and understand all paper and pulp mill machinery; fine location. First-class mill. Good working and living conditions. Address, Box 1781, care Paper Trade Journal. D-11

**PAPER BAG**—Experienced adjuster on Smith and Winchester tubers and bottomers. One who can take charge and handle help. Vicinity of New York. Address, Box 1780, care Paper Trade Journal. D-4

**MACHINE TENDER AND BACK TENDER**—Positions open in modern mill on Yankee Fourdrinier; eight-hour shifts. Rates better than average. Excellent living conditions in centrally located city of 30,000 population. Give references, married, age and kinds of paper have run. Address, Box 1787, care Paper Trade Journal. D-25

**WANTED**—Machine and Back Tenders for 62-inch Cylinder Machines on Chip and News Board. Two-machine mill, practically new. Address, Box 1788, care Paper Trade Journal. D-18

**WANTED**—Experienced Mill Manager, one familiar with Fourdrinier and Cylinder specialties, also with ability to handle general sales. Address, Box 1577, care Paper Trade Journal. D-4

**WANTED**—Cylinder and Fourdrinier Tenders in Mill making rope and jute specialties. Eight-hour shift; steady work; good pay. Time and a half for overtime. Married men preferred. Address, Box 1711, care Paper Trade Journal. D-4

**MAN**—Thirty-seven years of age, twenty-one years in Paper Business, which includes three years salesman, six years Mill Order Desk for large manufacturer of High Grade Printing Papers, Coated and Uncoated; two years in Waste Paper Business. Wants executive position or good sales proposition. Address, Box 1768, care Paper Trade Journal. D-4

## HELP WANTED

**WANTED IMMEDIATELY**—Night Superintendent for waxed paper and printing establishment in Middle West; most modern and up-to-date factory. Immediate, permanent and well-paying position. Address answers, which will be treated absolutely confidential, stating age, experience and references. Address, Box 1765, care Paper Trade Journal. D-11

**WANTED**—Machine Tender and Back Tender for 86" Machine; speed 100 to 300. Must supply reference. Two tours. Light Weights. Address, Box 1766, care Paper Trade Journal. D-4

**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. D-4

**WOOD PULP**—Salesman thoroughly acquainted with imported and domestic pulps. Only men of high class and proven ability need apply. Address, in confidence, Box 1730, care Paper Trade Journal. D-4

**MIDDLE STATES MILL** has opening for a backtender on straight Fourdrinier Machine. Three-tour system. Good chance for advancement for reliable man. Furnish references when making application. Address, Box 1741, care Paper Trade Journal. D-4

**WANTED**—Millwright for a new Paper Mill. Must be first-class. Married man preferred. Mill located in New York State. Apply, giving full record of experience and references. Address, Box 1743, care Paper Trade Journal. D-11

**WANTED**—Rotary paper cutter operators on Clark, Hamblet, or Kidder Machines. Also on Cameron paper slitters and rewinders. Apply, Central Waxed Paper Co., Central avenue and Taylor street, Chicago, Ill. D-11

## SITUATIONS WANTED

**BOSS FINISHER**—Competent executive of proven ability, at present employed by large specialty mill. Will be open for engagement January 1st. Address, Box 1782, care Paper Trade Journal. D-18

**COATING MILL**—Experienced Boss finisher and calendar man of wide experience on friction and super calendered coated papers seeks connection with first-class mill requiring the services of a snappy, aggressive foreman and producing man. Address, Box 1783, care Paper Trade Journal. D-18

**TRAVELING SALESMAN**—Wood Pulp, seeks change. Familiar with foreign and Canadian qualities. Can furnish good references. Address, Box 1784, care Paper Trade Journal. D-11

**WANTED**—Position as Boss Beaterman or night boss, having long experience on Book, Envelope and all Sulphite Bonds and Ledgers. Also Kraft and Bag Papers; good colorman. References as to character and capabilities. Address, Box 1785, care Paper Trade Journal. D-18

**EXECUTIVE**—Practical man, General Superintendent, large plants last eight years. Desires to connect with progressive company or smaller concern where later interest could be arranged. Present position worth \$5,500 per year. Address, Box 1786, care Paper Trade Journal. D-18

**SUPERINTENDENT**—Capable young man, 10 years' experience, seeks permanent position with reliable manufacturers in the following lines: Waterproof and Colored Crepe Papers, Wax Papers, Carbon Papers, Embossed Lace Papers, Coated Papers, and Paper Novelties. Also well familiar with designing Paper-working machinery and all sorts of paper labor-saving devices. Best references. Address, Box 1790, care Paper Trade Journal. D-4

**ENGINEER** desires to make change. Competent man to take charge of proportioning, designing, construction, remodeling and maintenance of pulp and paper mills. Address, Box 1757, care Paper Trade Journal. D-4

## SITUATIONS WANTED

**TECHNICALLY EDUCATED MAN**, 37, married, desires position as Manager or Assistant Manager of mill, or would consider selling pulp, paper or both. Have had ten years' experience in the paper business both in the mill and office, including purchasing (accounting, and selling. Am familiar with nearly all grades of paper and raw material. Good personality and willing to go anywhere that there is a good opportunity. At present employed but can give satisfactory reasons for desiring change. Will furnish first-class references. Address, Box 1745, care Paper Trade Journal. D-4

**SUPERINTENDENT**, experience on container, chip and straw board, felt for saturating. Can make container board economically from any grade of pulp. Can get production and keep up repairs with minimum of help. Address, Box 1747, care Paper Trade Journal. D-4

**WANTED**—Beginning February 15, 1920, position in pulp and paper mill by Chemical Engineer, B. S. degree. Opportunity to advance beyond routine work essential. Address, Box 1769, care Paper Trade Journal. D-11

**WANTED**—Position as assistant superintendent in a mill making rope, jute and wood papers, such as sand pattern, insulating, tag and all specialties. Am considered A-No. 1 on rope and jute papers. At present employed but would like to make a change. Can refer to one of the largest rope and jute paper manufacturers. Address, Box 1770, care Paper Trade Journal. D-11

**ROOFING SUPERINTENDENT**, now employed, desires a change. Twenty-five years' experience and thoroughly understands the roofing business and blending of all asphalts and coatings. Through-the-mill-man. Know raw materials, rags to finished products. Flooring, roofing, slat shingles, and asbestos. I know my business and am qualified to build, equip or organize any existing plant. A personal interview will enable me to submit further details. Address, Box 1773, care Paper Trade Journal. D-4

**SALESMAN**, age 30, married, seeks connection preferably with mill or reputable jobbing house in selling or executive capacity. Will go anywhere. Nine years' mill experience covering all grades paper, paper board, specialties. Well posted qualities, grades, values and have wide acquaintance among trade. Best of credentials. Address, Box 1732, care Paper Trade Journal. D-11

**WOOD PULP SALESMAN**, age 29, seeking another connection. Eight years' sales and executive experience. Entirely conversant with all grades of Foreign and Domestic pulps. Thoroughly familiar with requirements of and well acquainted with paper mills throughout entire United States. Have excellent following. Will travel. Capable assuming entire charge of Pulp Department and producing results. Unquestionable references. Address, Box 1734, care Paper Trade Journal. D-11

**SUPERINTENDENT**, now employed, desires to make change. Well up-to-date on all grades of boards and specialties. Can furnish best of references. Address, Box 1724, care Paper Trade Journal. D-4

**MAN WITH TWELVE YEARS' EXPERIENCE** in both manufacturing and sales, seeks a position as salesmanager with a mill making book or writing. Now with a jobber, but would like to return to the manufacturing end of the industry. Correspondence solicited. Address, Box 1762, care Paper Trade Journal. D-4

## FOR SALE

**FOR SALE**—Valuable Waterpower with small groundwood mill. Engineers estimate, 1300 horsepower for 60 per cent. of the year, if fully developed. A good location for a Paper Mill. Address, Box 1749, care Paper Trade Journal. D-11

**FOR SALE**—One Large Mullen Tester (jumbo size) used about three months. As good as new. Address, Box 1760, care Paper Trade Journal. D-4



**FOR SALE**

**FOR SALE**—One Hudson-Sharp Roll Toilet Paper Machine, 72-inch. Inside measurement of mandrell, 1 1/2 inches. New machine, never used, in original case as received from factory. Also Hudson-Sharp Roll Tightener. Immediate delivery. Address, Box 1739, care Paper Trade Journal. **tf**

**FOR SALE**—Two sulphite beaters 12 x 40 feet, and one Vesuvius 1800-pound sulphur burner, all new. Address, Peshtigo Pulp and Paper Co., Green Bay, Wisconsin. **D-18**

**FOR SALE**—Complete paper folding box plant located in large city; Middle West. Will sell at 20 per cent. below 1917 appraised value. Address, Box 1750, care Paper Trade Journal. **D-4**

**FOR SALE**

One (1) 76-inch Downingtown duplex cutter with duplex slitting attachment.

Two (2) No. 2 Clafin Engines.

THE SHARTLE BROS. MACHINE CO.,  
Middletown, Ohio.

**FOR SALE**—Two absolutely new 17" x 22" Ohio Cultivator Balling presses equipped with friction clutches. Piermont Paper Company, Piermont, N. Y. **tf**

**FOR SALE**—One Ryther Pulp Shredder, in first-class condition; used about six months. Address, Box 516, Niagara Falls, N. Y. **tf**

**FOR SALE**—One No. 2 Daniels Rag Cutter, \$250.00. Astorial Paper Co., Portland, Oregon. **N-27**

**FOR SALE**—One 40-inch type S. L. Kidder Slitter in perfect running condition. Full equipment and large assortment of spacers. Address, Box 1764, care Paper Trade Journal. **N-20**

**FOR SALE**

**BOARD MACHINE**—Six cylinder 36" x 80", 5 baby presses, three presses, 61 dryers, two stacks calendars, 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", calendars, 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.

**SLITTERS 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" Beloit duplex, 1 62" Horne, 1 53" Finlay, 1 48" Finlay, 1 42" Finlay.

**REAM CUTTERS**—1 50" Dayton Seybold, 1 48" Acme, 1 46" 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" Umperston, 1 No. 1 Clafin.

**JORDANS**—1 Jones Wagg Majestic with base, 1 Emerson "Special," 1 Noble & Wood with base, 1 Emerson with base, 2 Smith & Winchesters without base.

**PUMPS**—1 Deane triplex power water pump 10" x 10", 2 Deane triplex stuff pumps, 8" x 8", 2 Pusey & Jones double stuff pumps 6" x 10", 1 10" Worthington centrifugal, 3 4" centrifugals, 3 3" centrifugals.

**SCREENS**—2 ten plate packers.

**WET MACHINE**—2 84" Sandy Hill Iron & Brass, 1 72" Bagley & Sewall hydraulic.

**BOARD CALENDER**—1 Horne two rolls, 48" x 48".

**FRANK H. DAVIS**

175 Richdale Ave., Cambridge, Mass.

**MISCELLANEOUS**

**REWINDER WANTED**—Must be in good condition, 90-inch to 108-inch face, belt driven. Give full particulars and price to Box 1789, care Paper Trade Journal. **D-11**

**FOR SALE**—Two second-hand cylinder molds, one 94 inches face by 36 inches diameter, suitable for water filter; one 74 inches by 30 inches diameter, suitable for tissue machine. We cover your cylinders in the mill on short notice and plan to put them on right. Clark Manufacturing Co., Holyoke, Mass. **tf**

**WANTED**—45-inch to 54-inch Ream E Cutter; 45-inch to 54-inch Sheet Cutter; 40-inch Fales Cutter. Address, Box 1752, care Paper Trade Journal. **D-4**

**WANTED**—One second-hand Fourdrinier paper machine, 90" to 100" wide, complete with Marshall driving train, 50 to 60 feet wide, 3 presses, 21 to 30 driers, 3 stacks of calendars, reel and winder. Machine with some modern improvements preferred. Address, Box 1771, care Paper Trade Journal. **D-4**

**YOUR OPPORTUNITY**

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

**FOR SALE**

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

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

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

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

**Architects and Engineers**

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

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

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

**MISCELLANEOUS**

**Rags, Paper Stock, Etc.**

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

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

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

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

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

**HILLS, GEO. F.**, 236 South street,  
Branch House, 276 W. 25th street, N. Y. C.

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

**ROSENBAUM, INC. L.**, 316 Lafayette street,  
New York City. Packers exclusively of new cuttings.

**SIMMONS, JOHN, SONS**, Paper and Paper Stock, 28 and 30 South Alarshall street, Philadelphia, Pa.

**FOR SALE**

**BEATERS**—One 61" x 48", five Jones, one Downingtown, two Horne, one 60" x 60", several 72" x 44", two Clafin Refining Engines.

**BED PLATES**—Circled to diameter of roll.  
**CALENDERS**—One 7" roll stack 72" face, two 9" roll stacks 72" face, one 9" roll 63" face, one 9" roll 84" face.

**COATERS**—Two 56" Waldron coaters.

**CUTTERS**—Two 45" Finlay cutters newly rebuilt with brand new Hamblet expansion pulley drive, 36" Sanborn cutter, 38" guillotine cutter.

**CYLINDER MOULDS**—One 30" x 54", one 30" x 64", both rebuilt, ready for quick shipment. One new 30" x 92".

**DRIVES**—One Reeves No. 4, Class E, one Reeves No. 9, Class E, one Moore & White No. 10.

**DRYERS**—4 36" x 54", 8 36" x 62", 7 48" x 108", 2 36" x 66", 1 36" x 76", 1 24" x 120", also twenty brand new shells 48" x 96", and ten new shells 48" x 102".

**EVERENERS**—Two Mellor eveners.

**JORDANS**—1 Mammoth Jr., several Emerson and Horne type Jordans.

**MACHINES**—One 2 cylinder machine for 56" trim, 23" dryers. One 72" Harper fourdrinier.

**PULLEYS**—One 17" dia. 34" face, double arm, modern pulley. One set cone pulleys, 40" x 31" x 83" face. One set cone pulleys, 40" x 31" x 78" 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, 12 x 22 x 18. Knowles, one 1,000 gallon Blake tank pump, several 7" and 8" Lawrence Machine Company, Class A, high duty pumps; fan pumps, new stock pumps, single and double.

**PRESS ROLLS**—Large number of different sizes on hand. Some suitable for rubber covering.

**ROTARIES**—One 14" Globe, one 84" x 22" 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 Daniels No. 2, 12 1/2" knife; one Rice, Barton & Fales with 12" knife, newly overhauled and ready for quick shipment.

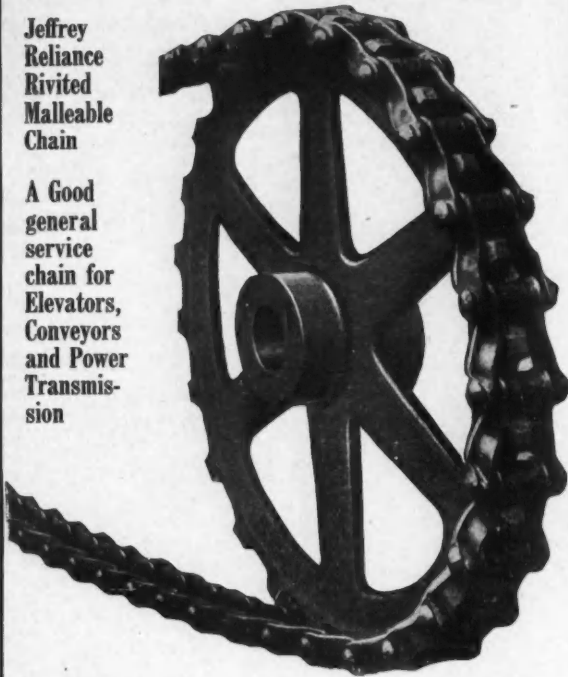
**SCREENS**—Two 6 plate Success, newly overhauled, 6 Ruth centrifugal, 6 Voith centrifugal.  
**WET MACHINES**—One 74", one 72" and one 84".

**WINDERS**—One 72" single drum, one Manning 74". Our stock is constantly changing. Advise us of your wants.

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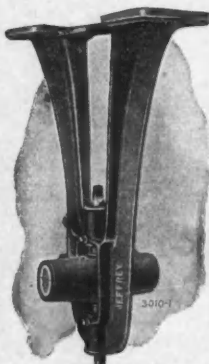


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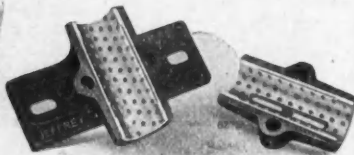
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#### Special Machinery

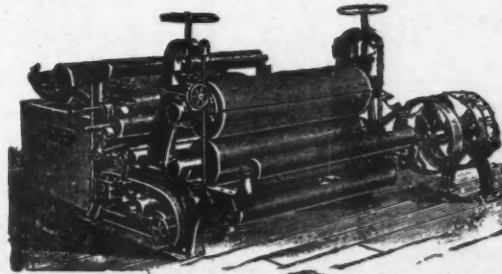
SWIFT, GEORGE W., JR., Designer and Manufacturer of Special Machinery for Manufacturing and Printing Paper Goods. Bordentown, N. J.

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

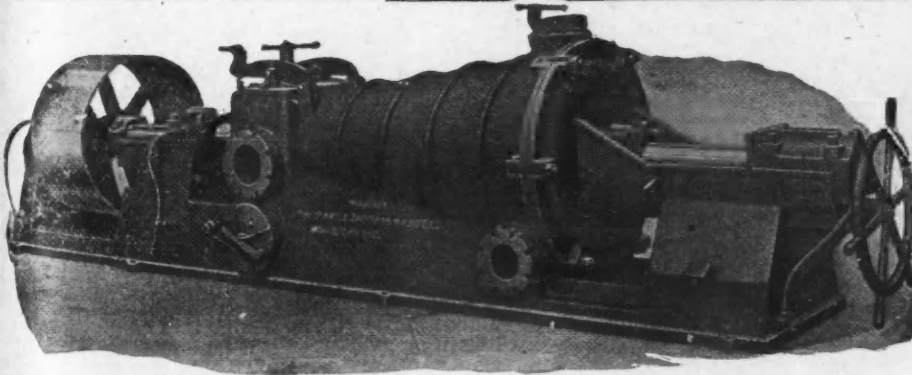
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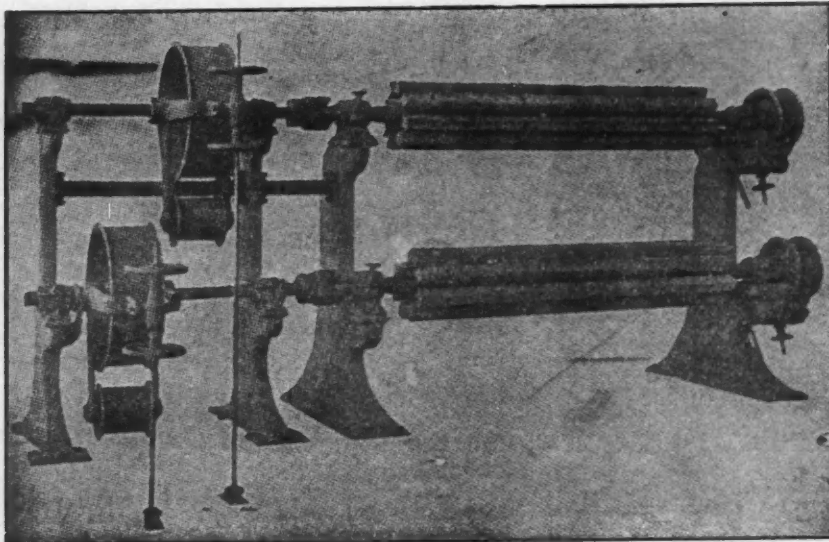
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**JOSEPH H. WALLACE & CO.**

**Consulting Industrial Engineers**

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71 Bay St.  
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**FOREST ENGINEERS**

527 Fifth Avenue New York, N. Y.

**WILLIAM T. FIELD**

Consulting Engineer

Watertown, N. Y.

DESIGNS

ESTIMATES

REPORTS

**FRANKLIN PAPER CO.** HOLYOKE MASS.

Manufacturers of

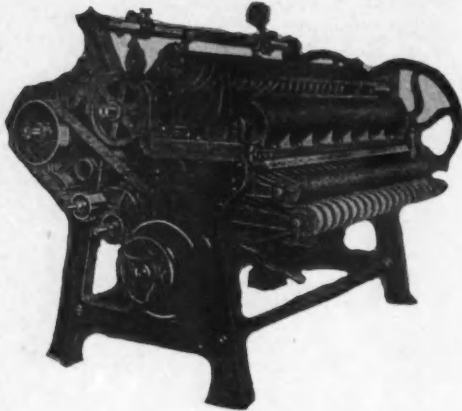
Index Bristols, White Bristol Blanks, Etc.

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

CAMERON MACHINE CO., BROOKLYN, N. Y.

# Paper Cutters

Single, Duplex and Diagonal



Cutter Knives      Patent Top Sitters  
**HAMBLET MACHINE CO.**  
 Lawrence, Mass.

## Farrel Foundry & Machine Co.

ANSONIA, CONN., U. S. A.      Largest Manufacturers  
 in the World of

### CHILLED ROLLS



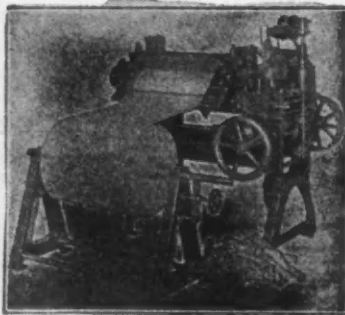
**CALENDERS**  
 with Patent Hydraulic Lift  
**ROLL GRINDING MACHINES**

## DIETZ

LATEST IMPROVED PATENTED

### Automatic Tube Machines

For Making Tubes for Toilet  
 Paper Rolls, Paper Towel Rolls



Patented

Capable of produc-  
 ing 3,600

#### Toilet Tubes

per hour direct from  
 roll or sheets cut to  
 proper size.

#### Towel Tubes

are made at rate of  
 1,800 per hour.

Substantially built  
 and fully guaran-  
 teed.

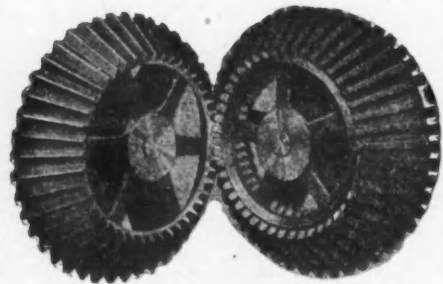
We also manufacture Toilet Paper Machines for making Toilet  
 Paper Rolls with or without perforations and machines for making  
 Sanitary Crêpe Paper Towels, Drop Roll Sitters, Slitting and  
 Rewinding Machines, Side and Center Seam Merchandise En-  
 velope Machines, Photo Mount Beveling Machines, Candy Bag  
 Machines, Punch Presses for Playing Cards, Rotary Card Cutting  
 and Collating Machines, Etc.

### DIETZ MACHINE WORKS

126-128 Fountain Street      PHILADELPHIA, PA.  
 Corner Waterloo St., Below Diamond St., Bet. Front and 2d Sts.

## MORTISE WHEELS

SPUR, BEVEL AND MITER



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

DESIGNERS AND BUILDERS  
 OF WATER WHEEL HARNESS

## H. W. Caldwell & Son Co.

CHICAGO, 17th Street and Western Avenue  
 NEW YORK, Fulton Bldg., Hudson Terminal, 59 Church St.  
 DALLAS, TEXAS, 711 Main St.



NORTHERN BRAND  
**BLEACHING POWDER** (HIGH TEST)  
**CAUSTIC SODA** 76-78% N. Y. & L.

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**MICHIGAN ELECTROCHEMICAL COMPANY**  
 OFFICE AND WORKS—MENOMINEE, MICHIGAN

## Bache Trading Co., Inc.

Importers and Dealers in

Wood Pulp  
and Paper

5 Beekman Street : New York

L. H. BOGART, Sec'y

H. L. BARGER, Treas

## W. M. PRINGLE & CO., INC.

Howard and Crosby Streets  
 NEW YORK

Manufacturers and Exporters of

**PAPER**

TO THE JOBBING TRADES ONLY

# PULP STONES

of absolutely the finest quality

**LOMBARD & CO.**

*Importers and Dealers*

236-238 A Street : BOSTON, MASS.

*Branch at Montreal, Canada*

## Missisquoi Pulp and Paper Company

SHELDON SPRINGS

VERMONT

White and Tinted Bristols — White  
 Blanks — Index Bristol and Special-  
 ties in Card Boards.

### Job Lots, Rejections, Side Rolls Wanted

SPOT CASH paid for jobs in bond paper, white or colors, any grade that will cut down to 11 x 17, any weight. Send samples, with lowest spot cash prices. No lot too small, and none too large.

MIDWEST PAPER CO., 712 Federal Street, Chicago, Ill.

## BLOOMER BROS. COMPANY

Newark, Wayne Co.,

New York State

*Paper Specialties Factory*

*Paper Board Mill*

Egg Cartons

Oyster Pails

Ice Cream Pails

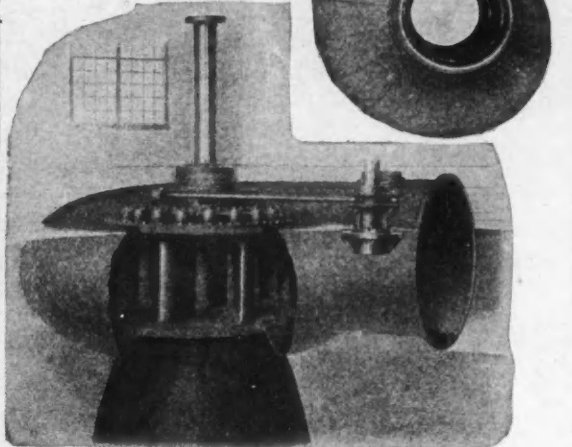
### Penn Paper and Stock Company

*Packers of All Grades of  
 Waste Paper*

206 N. DELAWARE AVENUE  
 PHILADELPHIA

## PRICES IN PHILADELPHIA

**92 $\frac{1}{4}$**   
**EFFICIENCY**  
 Under Actual  
 Operating Conditions



Single-Vertical Shaft "SMITH" Hydraulic Turbine installed in Niagara Mill of Kimberly & Clark Co. established the above performance record, developing 3,000 H P. at 240 R. P. M. under 60 feet head.

If interested, write Dept. "X" for Bulletin.

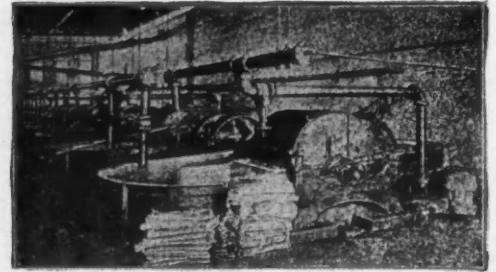
**S. MORGAN SMITH CO., York, Pa.**

176 Federal St.  
 BOSTON

76 W. Monroe St.  
 CHICAGO

405 Power Bldg.  
 MONTREAL

461 Market St.  
 SAN FRANCISCO



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

WE MAKE A SPECIALTY OF

**Beating Engines ALSO  
 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.

## Centrifugal Pumps for Fire Service

FOR DISCHARGING DIRECT INTO HOSE LINES OR FOR  
 SERVICE WITH AUTOMATIC SPRINKLER SYSTEMS

This is a type of

**GOULDS PUMPS**  
 FOR EVERY SERVICE

which has met with great favor for fire service in industrial plants, mills, municipal plants, office and hotel buildings. While the pump is heavily and strongly built, the design is extremely simple. There is nothing to get out of order and cause delay when the pump is needed. This type of pump, is built in accordance with the Fire Underwriters specifications and has been fully approved by them.

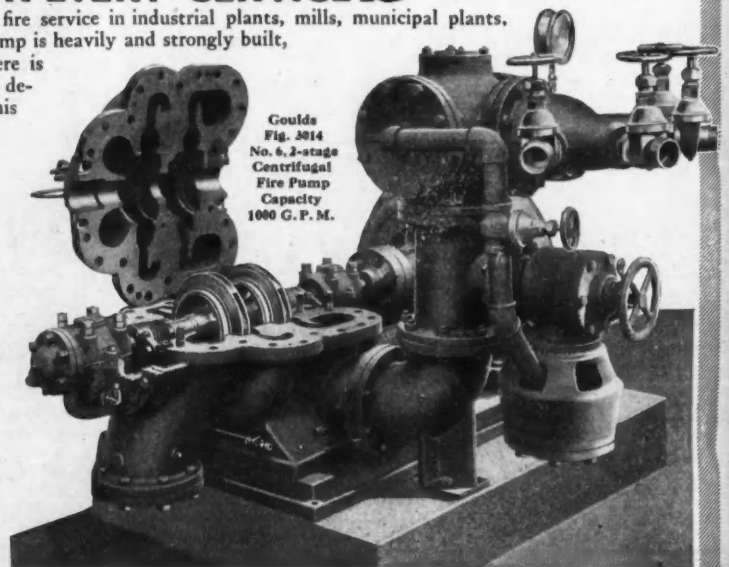
Furnished for capacities from 500 to 1500 G. P. M. for total heads up to 150 pounds. They can be supplied for direct connection to either electric motors or steam turbines.

Our Bulletin 118 contains complete data

**THE GOULDS MFG. CO.**

Main Office and Works

Branch Houses	<b>Seneca Falls, New York</b>	District Offices
Boston		Pittsburgh
New York		Atlanta
Philadelphia		Baltimore
Chicago		Houston



Goulds  
 Fig. 3014  
 No. 6, 2-stage  
 Centrifugal  
 Fire Pump  
 Capacity  
 1000 G. P. M.

That **IRON SPECK** or **RUST SPOT**  
can be removed  
with our extractor.



Sent on approval

**The Roland T. Oakes Co.**

Electrical Contractors and Engineers

Holyoke : Mass.

R. J. Marx, Agent for England and Europe



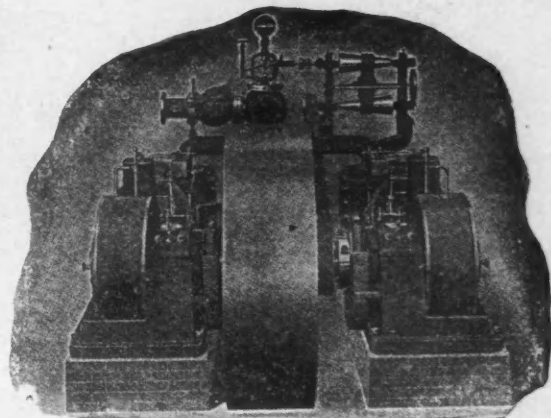
**C**UT down excessive wrapping paper investment. Why carry two wrapping paper lines for one wrapping paper purpose?

## MOSINEE

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.

## MOSINEE KRAFT

*"The Wrapper That Delivers the Goods"*



## Stop Wasting Money

The chances are that you're trying to turn out just as much paper as possible every 24 hours.

But perhaps you're tolerating an old form of machine drive that wastes time whenever you want to make a speed change. Or perhaps you have to stop now and again to make repairs to an antiquated transmission device.

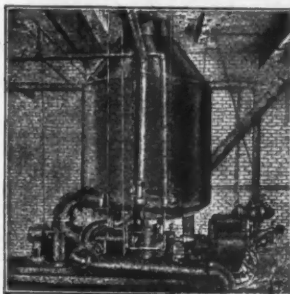
## The Ball Variable Speed Engine

increases production and decreases the worry. The real live paper manufacturers are using them, and they'll tell you that it pays.

*Write Us Now*

Get Our Variable Speed Bulletin

**BALL ENGINE CO., Erie, Pa.**



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.

**CASTLE, GOTTHEIL & OVERTON**

200 Fifth Ave. Building

SOLE SELLING AGENTS  
IN THE UNITED STATES

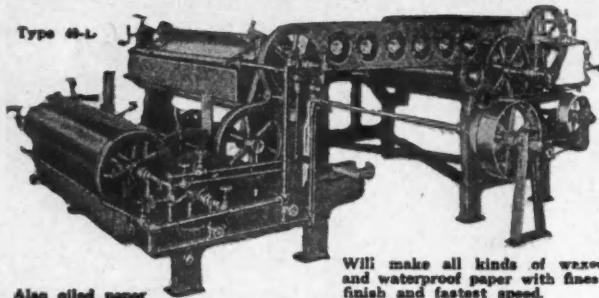
New York, N. Y.

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



**Wax Paper Coating Machines**  
Carbon Paper, Gumming, Gluing and Oiling Machines

Type 4-L



Will make all kinds of waxed and waterproof paper with finest finish and fastest speed.  
Also oiled paper  
**MAYER COATING MACHINES CO.** Rochester, N. Y.  
Sold Also by GIBBS, BROWER CO., 261 Broadway, New York

WILLIAM B. DILLON

**DILLON & BARNES**

Paper Mill Products and Supplies  
52 VANDERBILT AVENUE NEW YORK  
Telephone, 7353 Murray Hill



Special Shaped Carbon, Black Diamond POINTS FOR TURNING Paper, Cotton Chilled Iron and Hardened Steel Calender Rolls, Hard Rubber, Fibre, etc.

Manufactured by **THOS. L. DICKINSON,** 66 NASSAU STREET, NEW YORK

Successor to John Dickinson, Established 1796.

Agents for Great Britain, C. W. BURTON, GRIFFITHS & CO Ludgate Square, London

**EXPORT ONLY** All Grades of PAPER and BOARDS

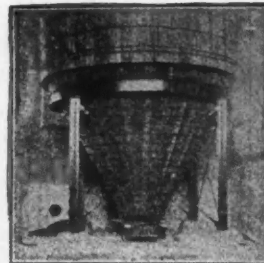
**A. M. Capen's Sons, Inc.**  
Established 1870  
60 Pearl Street, New York City

"SAFETY FIRST" "MADE RIGHT IN AMERICA"  
**"NATIONAL ROPE DUPLEX"**

made especially for wrapping Book Papers, etc., is the strongest Water proof Case Lining Paper in the world. Made in either sheets or rolls. Send for samples.

**NATIONAL WATERPROOFING COMPANY**  
1054-1056 Drexel Building, Philadelphia, Penna.

**NEW ENGLAND TANK & TOWER CO.**



**WOOD TANKS FOR ALL PURPOSES**

Everett Station, Boston, Mass.

**PAUL C. ZÜHLKE**  
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Manufacturers of All Special Small Roll Products



Adding Machine, Cash Register, Die Wiping, Hand Rolls, Etc., Etc.

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**TAGGARTS PAPER COMPANY**

MANUFACTURERS OF ROLL NEWSPRINT H. W. & W. PROCESS.  
ENTIRE PRODUCT FOR 1920 CONTRACTED  
Mills at Felts Mills, Great Bend and Lefebvre, N. Y.  
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**SLITTERS AND REWINDERS**

FOR EVERY PURPOSE  
**MEISEL PRESS MFG. CO.**  
944 DORCHESTER AVE., BOSTON  
40 YEARS' EXPERIENCE

**ALUM**

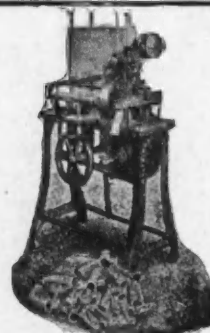
FOR THE PAPER MAKER  
Manufactured by

The Jarecki Chemical Co

QUALITY SERVICE

Sole Selling Agents

**ISAAC WINKLER & BRO.**  
CINCINNATI :: :: NEW YORK



**GRISSINGER**  
Patented

**AUTOMATIC TUBE MACHINE**

Wire Stitched Tube

TOILET PAPER MACHINERY

GRISSINGER MACHINE WORKS  
PHILADELPHIA PA

Patented June 24, 1913 August 10, 1915

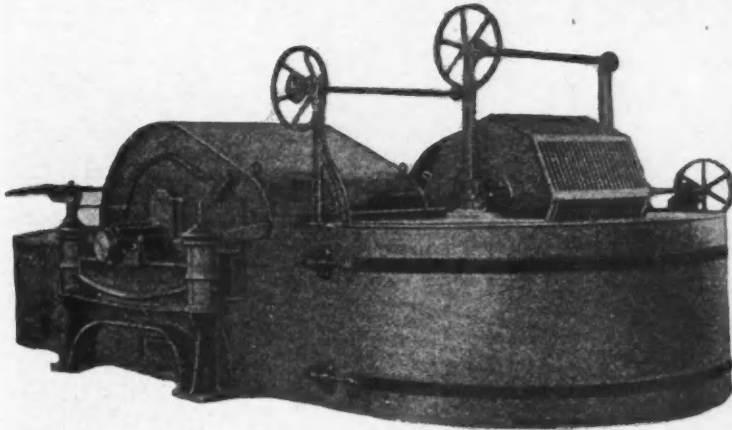
# Bleached Sulphite Pulp

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

Sell 140 tons per day of Bleached Sulphite Fibre made from choicest Quebec spruce wood, produced at Hawkesbury and at Merritton, Canada.

*Your patronage will be welcome.*

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



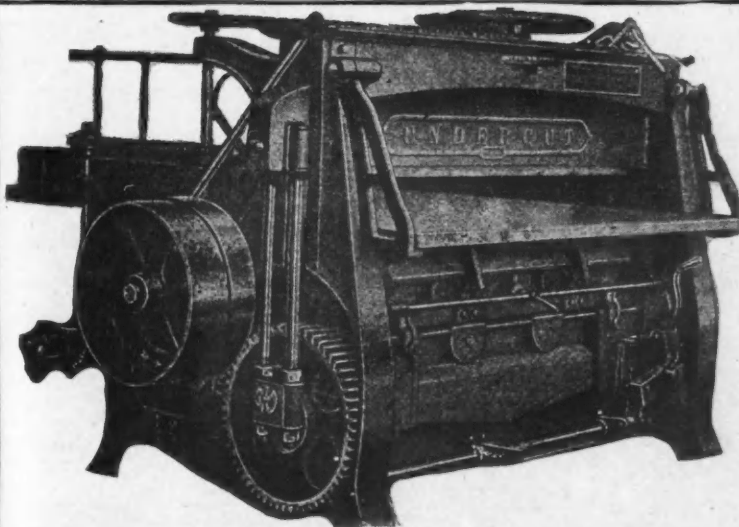
**WOOD AND IRON TUB BEATERS**

**Fourdrinier  
Machines**

**Cylinder  
Machines**

**Pulp Machinery**

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



## The Undercut Trimmer

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

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

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

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

For further and full information, call upon

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

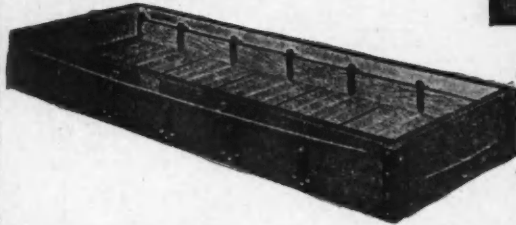
Builders of High Grade Paper Mill Machinery and Paper Bag Machinery  
South Windham, Conn.

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



## UNION SCREEN PLATE COMPANY

FITCHBURG, MASS., U. S. A.  
LENNOXVILLE, P. O. CANADA



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

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.

**The WITHAM SCREEN PLATE FASTENER, Patented**

THE ORIGINAL

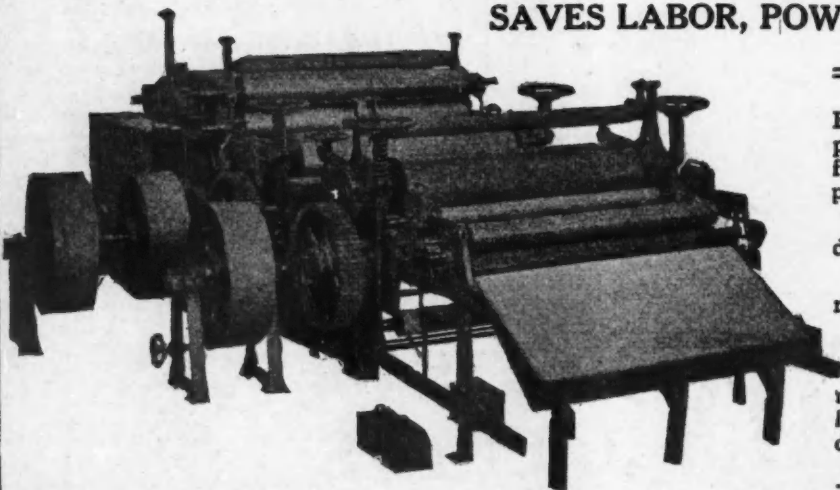
THE BEST

Over One Thousand in Successful Operation

Recommended by Screen Makers

## ROGERS WET MACHINE

SAVES LABOR, POWER AND FREIGHT



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

Felt cost is low considering dryness obtained.

Ball bearings for cylinder mould and couch roll.

Automatic felt guide

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.

**WORKMANSHIP AND MATERIAL GUARANTEED.**

**GLENS FALLS MACHINE WORKS : Glens Falls, N. Y.**

*Try Our Split Cams for Your Flat Screens*



# Specify "BIGGS" Rotaries

in "your" next installation!

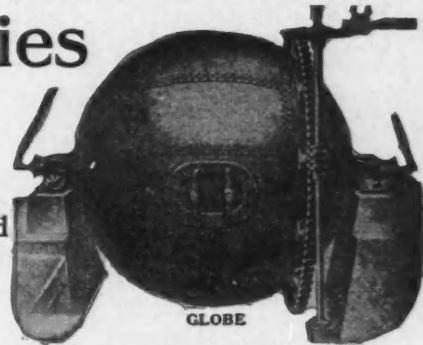
*There's a Reason*

Steel pressure and storage tanks for every purpose

WRITE FOR PRICES



CYLINDER



GLOBE

The Biggs Boiler Works Company : Akron, Ohio, U. S.

## EMERSON MANUFACTURING CO. LAWRENCE MASS.

See the Second-Hand Machinery ads and note the ABSENCE of

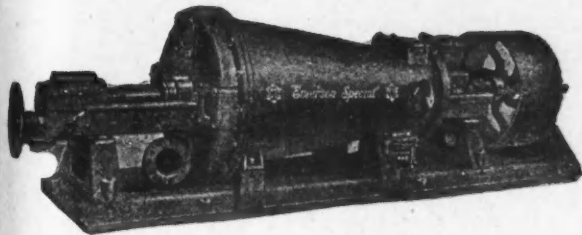
### EMERSON BEATING ENGINES

They seldom wear out and are never thrown out. PERFECT CIRCULATION NO "PADDLING."

### The "EMERSON" JORDAN

does its work with half the power required by others of no greater capacity.

WRITE FOR DETAILS.



WESTERN PAPER STOCK CO., 1452-1458 Indiana Ave. Chicago, Ill

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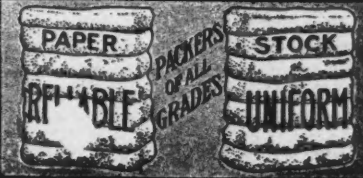
Or have you some machinery you would like to dispose of?

Try the Want Pages of the Paper Trade Journal

### PIONEER PAPER STOCK CO.

436-448 WEST OHIO ST. CHICAGO, ILL.

Oldest House in the West.



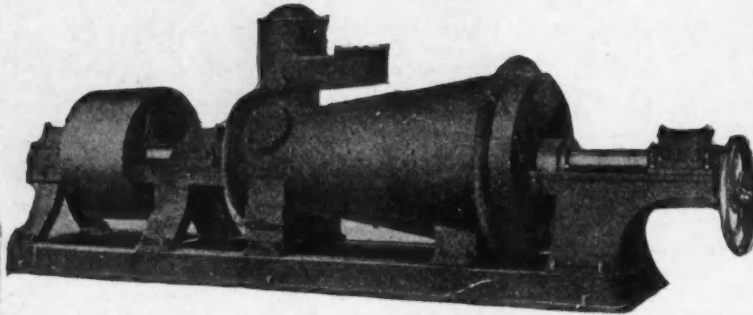
# APPLETON FELTS and JACKETS

Manufactured by

APPLETON WOOLEN MILLS, Appleton, Wis.



## THE DILLON JORDAN



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.

*For full particulars apply to*

**DILLON MACHINE CO., Inc.**  
Builders of Paper Mill Machinery  
Lawrence, Mass.

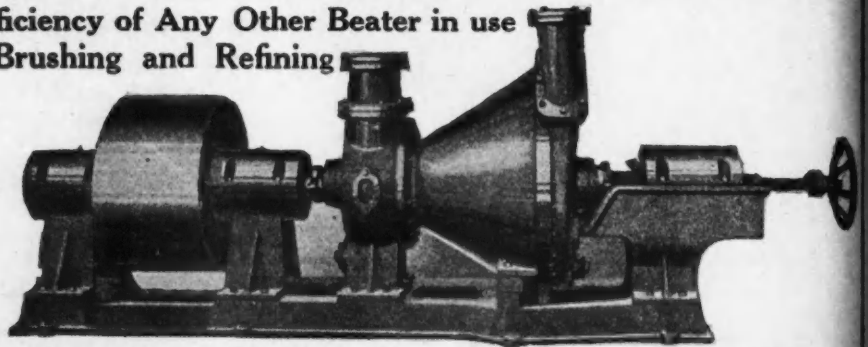
## The Claflin Continuous Beater

Has 3½ Times the Efficiency of Any Other Beater in use today, for Beating, Brushing and Refining Paper Stock.

*Has No Superior  
for Paper or Boards*

—250—

Claflin Continuous  
Beaters Now in Use

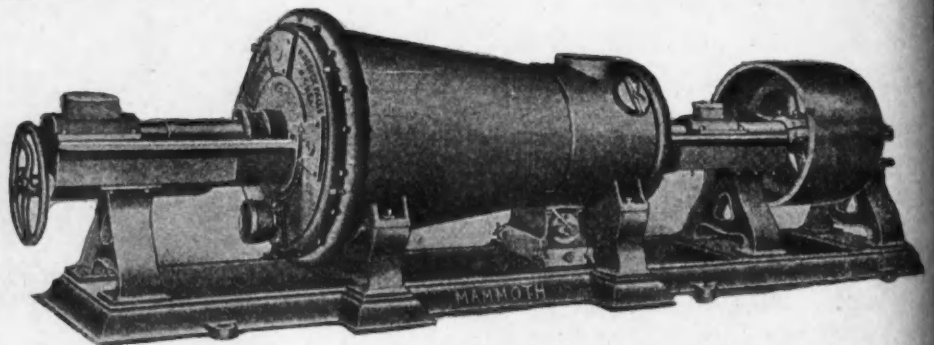


**THE CLAFLIN ENGINEERING COMPANY, - LANCASTER, OHIO**

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

**WE MAKE  
BEATERS AND  
JORDANS OF  
QUALITY**

**SIX SIZES OF  
JORDANS,  
BEATERS,  
FROM ¾ LBS.  
TO 3000 LBS.**



**The Noble & Wood Machine Co., Hoosick Falls, N. Y.**

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# J. L. & D. S. RIKER

(Incorporated)

Importers and Manufacturers' Agents

19 CEDAR ST. NEW YORK

All Tests  
SODA ASH  
and  
ALKALI

Sole Agents for the United States  
and Canada of THE UNITED  
ALKALI CO., LTD., of Great  
Britain, for the sale of their  
various brands of

**BLEACHING POWDER**

# POTDEVIN MACHINE CO.

ESTABLISHED 1893

1221 38th Street, Brooklyn, N. Y.

MANUFACTURERS OF

IMPROVED MACHINERY FOR MAKING

SELF OPENING BAGS SATCHEL BOTTOM BAGS  
FLAT AND SQUARE BAGS (All Lined or Unlined)  
PAPER BAG BUNDLING PRESSES

**WAX PAPER**

CORRUGATED PAPER ENVELOPES

Scallop Strips for Candy Boxes

**GUMMING MACHINES**

For COLD or HOT GLUES

## ENGINEERS PLANNING POWER TRANSMISSIONS

Secure Data and Estimates of "MORSE" DRIVES

SAVE Construction, Space, Light, Fuel Producing More with Less  
**MORSE CHAIN CO., - ITHACA, N. Y.**

Engineering Service, Assistance, Bulletins

Boston	Detroit	Pittsburgh	Montreal
Chicago	Greensboro, N. C.	San Francisco	Minneapolis
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# STEARNS TANKS

BLOW-PIPES, STORAGE  
TANKS, ACID TOWERS, ETC.,  
OF WOOD.

HEAVY PAPER MILL WORK  
IS OUR SPECIALTY.

70 YEARS EXPERIENCE.

Enquire for quotations  
Have you our catalogue?

**THE A. T. STEARNS LUMBER COMPANY**  
125 Taylor St., Neponset, Boston, Mass.



## TRANS-OCEANIC TRADING CO.,

90 WEST STREET, NEW YORK

Head Office: 17 Rosenkrantzgaten, Christiania (Norway)

**Paper and Pulp Exporters and Importers**

MILL CONNECTIONS SOLICITED

# Dry Rosin Size AGALITE FILLER



Brittle and easily soluble. Cheapest size out.  
Cheaper than mill made size. Also our hot and  
cold water sizes; standard quality. Cleaner, more  
uniform and economical than either mill made  
sizes or those offered by our competitors. Also  
Arabol Paper Size, Splicing Gums, Condensed  
Paste Powder, Paper Makers' Starches.

**Arabol Manufacturing Co.**  
100 William Street : NEW YORK

UNITED STATES TALC CO.  
GOUVERNEUR : NEW YORK

# VERA ROSIN SIZE

Guaranteed to Be Absolutely Clean and Pure

**SHIPPED IN BARRELS and TANK CARS**  
OUR VERA PAPER SIZE

is the purest, strongest and highest free rosin size made. We can furnish you with an ideal rosin size and patented apparatus to use same.

OUR VERA MILL SIZE

is the best soluble paper makers' rosin size made. Ready to use in cold or warm water in the ordinary way without apparatus. Gives better satisfaction and is more economical than mill made size.

OUR VERA BEATER SIZE

Especially prepared to be dumped direct from the barrels into the Beater, without first dissolving it.

**VERA CHEMICAL COMPANY**

North Milwaukee, Wis. Stoneham, Mass.  
Burlington, Ont., Canada

## Why Waste Good Stock?

When You Can Save It at a Small Expense by Using Our

# SCREENING GRINDER "SUCCESS"

Which we offer to the trade. It will successfully reclaim and grind sulphite and ground wood screenings into a marketable pulp, which can be sold at a profit.

The following leading mills are using the "Success" with success:

JONQUIERE PULP Co., Jonquiere, P. Q., Canada.  
SPANISH RIVER PULP & PAPER Co., Ltd., Espanola, Ont., Can.  
DELLS PAPER & PULP CO., Eau Claire, Wis.  
WOLF RIVER PAPER & FIBRE CO., Shawano, Wis.  
THE FALLS MFG. CO., Oconto Falls, Wis.

WRITE FOR INFORMATION

**APPLETON MACHINE CO., Appleton, Wis.**

# EASTWOOD WIRE MFG CO. FOURDRINIER WIRES BELLEVILLE, NEW JERSEY, U.S.A.

## THE WM. CABLE EXCELSIOR WIRE MFG. CO.



Established 1848  
Incorporated 1870-1896

Manufacturers of  
Superior Fourdrinier  
Wires  
Cylinder Wires  
Brass, Copper and  
Iron Wire Cloth of  
Every Description.  
Best Quality of  
Wire Rope



Write for Price List

74-90 Ainslie St. BROOKLYN, N. Y.

### Mill Cogs

ON SHORTEST POSSIBLE NOTICE

We make all kinds of Mill Cogs and have special facilities that will be of great service to you. We make a specialty of "ready dressed" cogs which are

**READY TO RUN**

the moment driven and keyed. Write at once for circular "G" and instruction sheets, free.

THE N. P. BOWSER CO., South Bend, Ind.  
Established 1882.

# NATRONA POROUS ALUM

MANUFACTURED BY  
PENNSYLVANIA SALT MFG. COMPANY  
PHILADELPHIA

## C. K. WILLIAMS & CO., EASTON PA.



Proprietors of the Peas, Dry Paint and Color Works and the Helios Dry Color, Chemical and Copperas Works of Allentown, Pa.

Manufacturers, Miners and Importers of Coloring Materials, such as Venetian Reds, Red, Brown, Black, Yellow, Oxides, Chrome and other Ochres, also Paper Fillers—as Agalites, Mineral Pulp, Talc, China and other Clays.

## COLORS FOR PAPER MANUFACTURERS' USE

## Facts About Gumbinsky Bros. Co.

Largest dealers in paper stock and rags  
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