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PAPER TRADE JOURNAL

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ESTABLISHED IN 1872

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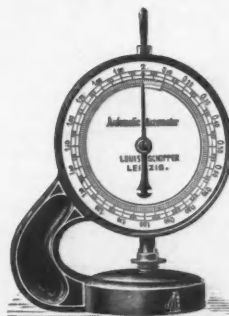
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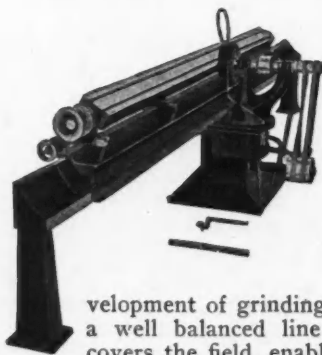
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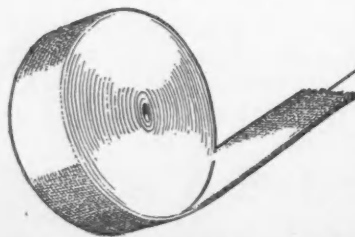
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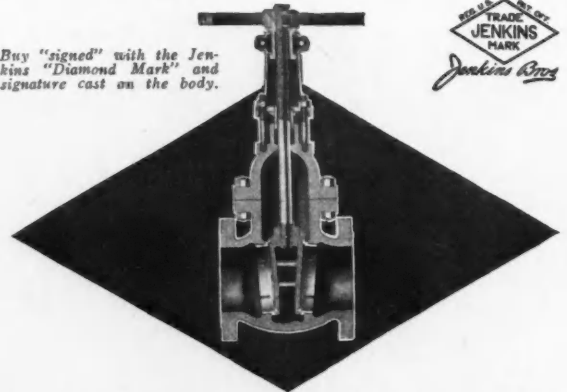
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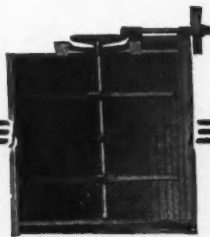
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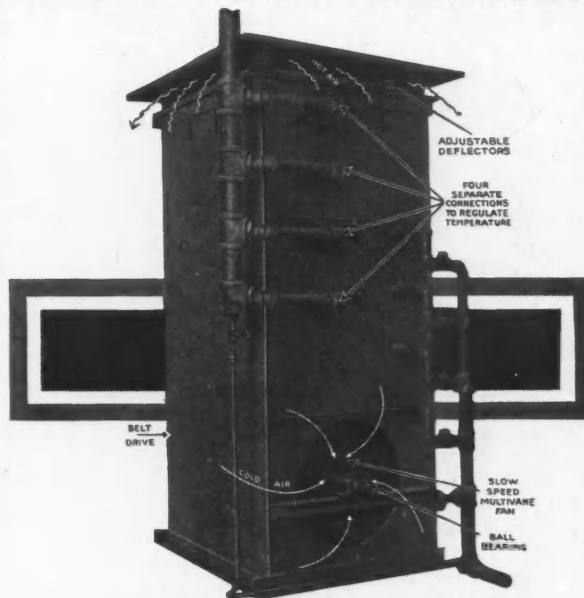
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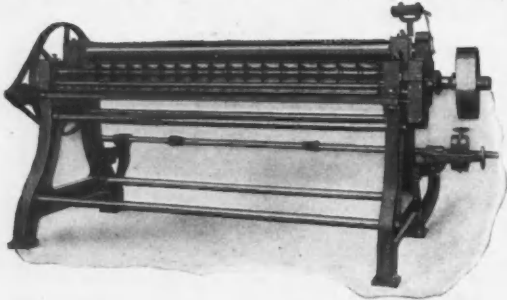
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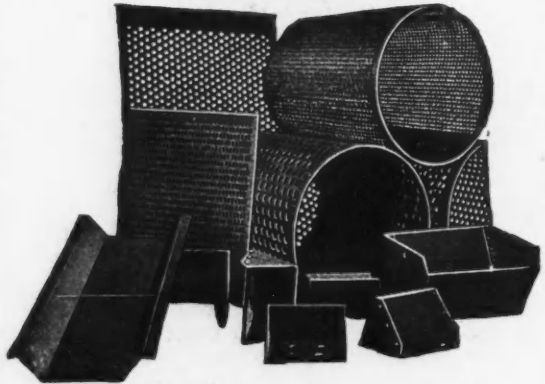
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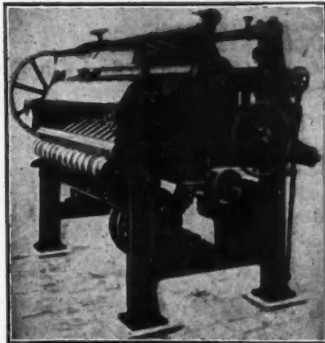
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NEW YORK AND CHICAGO

Thursday, November 3, 1921

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PRODUCTION OF ALL PAPERS FOR THE MONTH OF SEPTEMBER

According to Statistics Just Issued by the Federal Trade Commission, Mill Stocks at the End of September of News Print Equaled Seven Days' Average Output, Mill Stocks of Book Paper Equaled Eleven Days' Average Output, Mill Stocks of Paper Board Equaled Nine Days' Average Output and Mills Stocks of Wrapping Paper Equaled Twenty-three Days' Average Output.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., Nov. 2, 1921.—The attached tabulation is a summary of production, shipments and stocks of paper mills in the United States for the month of September, 1921, proposed by the Federal Trade Commission. This summary is compared with the month of September, 1920, 1919, and 1918, and the average production and stocks based upon the production and stocks for the years 1918, 1919 and 1920. The mills have been classified for convenience into 12 groups according to the grades of paper made. Some mills making several grades appear in more than one group which causes duplication in the body of the tonnage tables in the number of mills.

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

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

Tonnage Summary

Production, Shipments and Stocks of paper, by Grades, for the month of September, 1921, compared with September, 1920, 1919 and 1918, and with average production and stocks.

Grade	Number of mills	Stock on hand 1st of month Net tons	Production Net tons	Shipments Net tons	Stock on hand end of month Net tons
News Print (Standard and Special Grades of News):					
September, 1921.....	56	27,128	98,898	95,785	30,241
September, 1920.....	81	24,711	121,005	121,123	24,593
September, 1919.....	74	25,584	111,434	118,687	18,331
September, 1918.....	63	21,673	95,670	97,020	20,323
Average.....	..	.....	112,925	.....	23,763
Standard News:					
September, 1921.....	67	22,728	90,627	88,114	25,241
September, 1920.....	67	21,937	110,200	110,333	21,804
September, 1919.....	54	21,383	97,702	104,742	14,343
September, 1918.....	50	16,507	85,661	86,515	15,653
Average.....	..	.....	107,650	.....	19,528
Book (M. F., S. S. C and Coated):					
September, 1921.....	89	35,160	62,416	61,990	35,586
September, 1920.....	95	22,686	94,142	95,704	21,124
September, 1919.....	88	32,978	81,024	85,727	28,275
September, 1918.....	89	29,548	65,751	65,850	29,449
Average.....	..	.....	78,125	.....	28,328
Paper Board, tota, (Straw, Fiber, Leather, Chip, etc.):					
September, 1921.....	226	63,276	160,207	164,521	58,962
September, 1920.....	253	38,305	218,743	218,799	38,249
September, 1919.....	259	52,864	184,897	186,659	51,102
September, 1918.....	237	39,175	161,775	160,102	40,848
Average.....	..	.....	168,575	.....	45,530
Box Board:					
September, 1921.....	136	32,160	120,898	121,271	31,787
September, 1920.....	152	17,368	160,044	159,952	17,460
Average.....	..	.....	112,600	.....	19,303
Wrapping (Kraft, Manila, Fiber, etc.):					
September, 1921.....	139	62,811	59,095	65,593	56,313
September, 1920.....	149	23,341	70,917	74,688	18,570
September, 1919.....	155	51,675	63,353	70,816	44,212
September, 1918.....	155	33,354	58,891	58,357	33,888
Average.....	..	.....	61,000	.....	39,488

Grade	Number of mills	Stock on hand 1st of month Net tons	Production Net tons	Shipments Net tons	Stock on hand end of month Net tons
Bag (All Kinds):					
September, 1921.....	43	2,885	13,763	13,634	3,014
September, 1920.....	40	2,192	18,850	19,027	2,015
September, 1919.....	45	3,806	19,115	18,905	4,016
September, 1918.....	40	3,411	15,266	15,186	3,491
Average.....	..	.....	15,375	.....	3,365
Fine (Writing, Bonds, Ledgers, etc.):					
September, 1921.....	106	37,903	20,555	22,464	35,994
September, 1920.....	111	27,127	34,207	32,934	28,400
September, 1919.....	108	36,871	31,923	33,447	35,347
September, 1918.....	98	27,810	31,607	30,153	29,264
Average.....	..	.....	29,975	.....	31,835
Tissue (Toilet, Crepe, Fruit Wrappers, etc.):					
September, 1921.....	90	7,451	14,241	14,465	7,227
September, 1920.....	99	5,237	16,359	15,963	5,633
September, 1919.....	91	7,170	14,845	15,323	6,692
September, 1918.....	85	4,715	11,998	11,798	4,915
Average.....	..	.....	12,975	.....	6,453
Hanging (No. 2 Blank, Oatmeal, Tile, etc.):					
September, 1921.....	23	9,668	5,482	4,933	10,217
September, 1920.....	25	1,510	10,124	10,254	1,380
September, 1919.....	22	6,549	7,869	8,864	5,554
September, 1918.....	20	2,648	5,996	6,346	2,298
Average.....	..	.....	7,325	.....	3,296
Felts and Building (Roofing, Sheathing, etc.):					
September, 1921.....	44	8,954	27,130	28,306	7,778
September, 1920.....	53	11,119	31,430	31,794	10,755
September, 1919.....	52	6,851	31,158	30,018	7,991
September, 1918.....	49	8,729	22,394	22,775	8,348
Average.....	..	.....	25,425	.....	8,571
Other Grades (Specialties not Otherwise Classified):					
September, 1921.....	96	18,773	16,139	17,437	17,475
September, 1920.....	94	14,389	27,241	28,009	13,621
September, 1919.....	83	15,615	19,972	17,899	17,688
September, 1918.....	66	9,749	21,860	20,825	10,784
Average.....	..	.....	21,425	.....	12,784
Total, of all Grades:					
September, 1921.....	..	274,009	477,926	489,128	262,807
September, 1920.....	..	170,617	643,018	648,295	165,340
September, 1919.....	..	239,963	565,590	586,345	219,208
September, 1918.....	..	180,812	491,208	488,412	183,608
Average.....	..	.....	533,125	.....	203,373

Note—The average production and stocks are based upon the annual reports for 1918, 1919 and 1920.

The following stocks were reported on hand at terminal and delivery points on September 30 in addition to the mill stocks shown in the tabulation: News Print, 15 tons; Book Paper, 3,556 tons; Fine, 16 tons; Wrapping, 7 tons, and "Other Grades," 200 tons.

Stocks of News Print, Standard News, Book, Bag, and Hanging increased during the month. Stocks of all grades reported by manufacturers at the end of September amounted to 266,601 tons, including the stocks at terminal and delivery points. In addition to these stocks, jobbers and publishers reported news print in stock and in transit aggregating 243,429 tons.

Ratio of Stocks to Average Production

Comparing the stocks on hand at the domestic mills on September 30 with their average daily production based upon the combined production for 1918, 1919 and 1920, the figures show that:

- News print paper mill stocks equal 7 days' average output.
- Book paper mill stocks equal 11 days' average output.
- Paper board mill stocks equal 9 days' average output.
- Wrapping paper mill stock equal 23 days' average output.
- Bag paper mill stocks equal about 5 days' average output.
- Fine paper mill stocks equal 30 days' average output.
- Tissue paper mill stocks equal 14 days' average output.
- Hanging paper mill stocks equal 35 days' average output.
- Felts and building paper mill stocks equal 8 days' average output.
- Miscellaneous paper mill stocks equal 20 days' average output.
- Total paper mill stocks of all grades equal about 12 days' average output.

Imports and Exports

The imports and exports of all grades of paper for August, 1921, compared with August, 1920, as shown by the records of the Department of Commerce were as follows:

	August, 1921		August, 1920	
	Pounds	Value	Pounds	Value
Imports:				
News Print.....	148,422,772	\$6,707,612	147,026,095	\$7,236,614
Book Paper.....	10,971	4,782	182,400	34,038
Wrapping.....	980,620	40,187	541,418	58,126
Hanging.....		21,493		31,788
All other grades (a).....		249,403		270,084
Exports:				
News Print.....	2,521,145	\$144,784	8,809,248	\$688,663
Book Paper.....	1,991,070	205,838	5,770,615	911,485
Paper Board.....		80,471		404,106
Wrapping.....	2,116,299	135,968	4,245,697	523,413
Bag.....		44,089		157,696
Fine.....		146,519		492,990
Tissue.....		88,973		214,045
Hanging.....		12,286		102,773
All other grades (a).....		394,282		863,212
Total Imports.....		\$7,023,477		\$7,630,659
Total Exports.....		1,253,210		4,358,383

(a) Includes some paper already converted into commercial articles.

News print is the only grade of which the United States is a heavy importer. The bulk of this tonnage, the value of which amounted to \$6,707,612 for August, 1921, is imported from Canada. The value of the exports of News Print in August, 1921, amounted to \$144,784, which is about 2 per cent of the News Print imported.

Book Paper, News Print, Wrapping Paper, and Fine Paper were the principal grades exported, the combined value amounting to \$633,109 for August, 1921.

The value of the total imports of all grades was about 3 per cent more than for July, 1921. The value of the total exports for August, 1921, was \$3,105,173, less than the value of the exports for August, 1920, and \$5,770,267 less than the value of the imports for August, 1921.

Loss of Production

The idle machine time reported to the Commission is shown by grades in the tabulation attached. This tabulation does not include the machines in mills which are closed down completely. The reasons tabulated for lost time are lack of orders and repairs. "Other

reasons" include lack of coal, lack of water power, etc. The time lost in September, 1920, is given by grades and reasons for purposes of comparison.

St. Regis Paper Co. Opens New York Office

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., October 31, 1921.—Raymond J. Parham, who for several years has been at the head of the sales department of the St. Regis Paper Company, has been placed in charge of the New York office of the combined St. Regis and Hanna Paper Corporation which is being opened in New York City. He expects to go to New York to reside as soon as the new office is opened in the Central Union Trust Company building at the corner of Madison Avenue and 42nd Street. President F. L. Carlisle of the new concern said that members of the two accounting departments will accompany Mr. Parham to the Metropolitan office. The office there will be opened some time next week, and the mechanical end of the sales work will also be located in the New York office.

The combining of the purchasing and the sales departments of these two large paper companies under one head through the purchase of the controlling stock of Mark A. and Carl H. Hanna by stockholders of the St. Regis Paper Company is said by President Carlisle to make necessary the opening of the New York office, heretofore this part of the work has been conducted through the offices of the two companies in this city. The combined output of the two companies makes it the third largest paper concern in the country. It involves a daily output of 400 tons of news print, 50 tons of shipping fibre containers, 100 tons of sulphite, and 40 tons of various kinds of wrapping paper.

Just what other members of the local organization will be sent to the New York office is not known as yet, nor is it announced what others may be brought into the employ of the office in New York.

To Make Gummed Tape Paper

MILWAUKEE, Wis., November 1, 1921.—The Great Lakes Paper Products Company, 279 Park Street, has begun the manufacture of gummed tape paper.

Grade	Lack of Orders		Repairs		Other Reasons		Total	
	1921	1920	1921	1920	1921	1920	1921	1920
News Print:								
Number of machines.....	12	0	6	7	13	9	31	16
Total hours idle.....	2,334	0	1,111	344	2,099	919	5,544	1,263
Book Paper:								
Number of machines.....	155	2	4	17	24	19	183	38
Total hours idle.....	23,836	43	351	450	3,369	714	27,556	1,207
Paperboard:								
Number of machines.....	117	12	31	64	80	82	228	158
Total hours idle.....	25,934	4,236	2,664	5,895	19,825	16,002	48,423	26,133
Wrapping:								
Number of machines.....	65	1	20	46	28	43	113	90
Total hours idle.....	11,455	76	2,592	4,536	3,803	7,173	17,850	11,785
Bag:								
Number of machines.....	9	0	4	6	13	3	26	9
Total hours idle.....	1,245	0	265	159	1,489	186	2,999	345
Fine:								
Number of machines.....	112	18	6	35	59	20	177	73
Total hours idle.....	21,906	731	863	2,815	12,492	1,725	35,261	5,271
Tissue:								
Number of machines.....	34	8	44	43	24	27	102	78
Total hours idle.....	4,230	786	4,932	4,298	3,793	3,456	12,955	8,540
Hanging:								
Number of machines.....	8	0	0	3	4	2	12	5
Total hours idle.....	2,337	0	0	581	330	601	2,667	682
Felts and Building:								
Number of machines.....	19	2	10	11	9	12	38	25
Total hours idle.....	2,428	600	845	1,112	1,125	1,678	4,398	3,390
Other Grades:								
Number of machines.....	48	1	7	11	26	18	81	30
Total hours idle.....	9,080	496	544	785	4,014	1,739	13,638	3,020
Total number of machines.....	579	44	132	243	280	235	991	522
Total hours idle.....	104,785	6,968	14,167	20,975	52,339	34,193	171,291	62,136

CONTINENTAL PAPER MILLS PLANNING BIG EXPANSION

Issues \$2,000,000 in First Mortgage 7½ Per Cent Sinking Fund Gold Bonds—Among Other Improvements It Is Said that the Erection of a New Paper Mill at Oconto Falls and the Installation of a New Paper Machine in the Park Mill at Marinette Are Contemplated—Swedish Minister to the United States Says America Is Wasting Timber in Middlewestern States.

[FROM OUR REGULAR CORRESPONDENT.]

APPLETON, Wis., November 1, 1921.—The Continental Paper and Bag Mills last week announced the issuance of \$2,000,000 in first mortgage 7½ per cent sinking fund gold bonds for which the Marinette and Menominee Paper Company plant, the Falls Manufacturing Company and the Union Manufacturing Company plant will be pledged as security. It is said that the issuance of these bonds insures an immense expansion program in the western plants of the Continental Paper and Bag Mills.

It is reported that a new paper mill is to be built at Oconto Falls, the waterpower there is to be largely developed and a new paper machine is to be installed in the Park mills at Marinette. A new building is now being erected to house the new paper machine. Other extensive improvements, not yet ready for announcement, also are contemplated.

It also was announced that the Continental Paper and Bag Mills owns at least 500,000 cords of spruce and other pulp wood in the provinces of Quebec and Ontario, Canada.

After the new paper machine is installed in the Marinette and Menominee Paper Company plant that concern will have a daily capacity of 100 tons of fibre, kraft, bag, news and hanging papers. The raw material production will be 55 tons of sulphite and 40 tons of groundwood per day. Additional raw material required by the Marinette and Menominee Paper Company plant is supplied by the Falls Manufacturing Company at Oconto Falls. The Marinette and Menominee property, with the new machinery, is valued at more than \$2,000,000.

The Falls Manufacturing Company plant at Oconto Falls has a daily paper-making capacity of 30 tons and plans have been completed for the development of additional waterpower which will increase the paper capacity to 90 tons a day. The present output of raw material is 25 tons of sulphite pulp, 50 tons of sulphate pulp and 15 tons of groundwood daily. The Falls Manufacturing Company plant is appraised at approximately \$1,750,000.

Plans are perfected for increasing the hydro-electric power of the Union Manufacturing Company from 1,500 to 2,500 horsepower. The property is valued at about \$400,000.

Own Big Pulpwood Tracts

The Continental Western Realty Company, a subsidiary of the Continental Paper and Bag Mills, owns in fee 4,835 acres of pulpwood timber lands, 818 acres of cutover lands, 793 acres of timber and a half interest in fee of 1,880 acres of timber lands in Wisconsin and Michigan. The property is valued at more than \$350,000.

These properties have a total developed horsepower of in excess of 8,000 horsepower, and undeveloped waterpowers of approximately 6,000 horsepower.

The Continental Paper and Bag Mills, with a total daily output of 150 tons of paper bags and sacks, merchandise envelopes and paper specialties, over 250 tons of wrappings, specialties and tissue papers, and plants for the manufacture of sulphite, sulphate and groundwood, is one of the largest companies of its kind in the United States. The company operates mills at Rumford, Me.; Ashland, N. H.; Watertown, N. Y.; Greenwich, N. Y.; Brooklyn,

N. Y.; York Haven, Pa.; Oconto Falls, Marinette and Menominee.

Through the Continental Wood Products Company, Limited, of Montreal, Canada, the Continental company owns approximately 50,000 acres of freehold timber lands in the provinces of Quebec and Ontario, estimated to contain at least 500,000 cords of spruce and other pulp woods.

The net earnings of the Continental company and subsidiaries for the 4½ years ended June 30, 1921, averaged in excess of \$825,000 a year, or five and one-half times the annual interest requirements of the bonds, and approximately three and one-quarter times the total annual interest and sinking fund requirements.

Wasting Timber Resources

Destruction of America's timber resources was decried by Axel F. Wallenberg, Swedish Minister to the United States, after a tour of Middle West states. Mr. Wallenberg spent several days in Wisconsin visiting paper mills.

"I have just completed a tour of Minnesota, Wisconsin and the upper peninsula of Michigan, and it made me ill to see the destruction of vast timber lands by fire," said Mr. Wallenberg, in Detroit recently. "Great stretches of timber land have been made barren. In Sweden we would do everything in our power to prevent that.

"We regard our lumber as money—capital and interest," Mr. Wallenberg said. "We never encroach upon the capital, but use only the interest. At all times we are making efforts to increase our capital, for if that is depleted our industry is gone."

Visit Whiting-Plover Plant

W. E. Brooks, chief papermaker, and Mr. Harrigan, production manager of the American Writing Paper Company, spent a day in the plant of the Whiting-Plover Paper Company, at Stevens Point, inspecting new equipment in the plant. It is said that some of the machinery in the Whiting-Plover plant is superior to that in any other mill of its kind.

To Manage Neenah Paper Co.

D. K. Brown, treasurer of the Neenah Paper Company since 1920, was elected general manager to succeed the late W. Z. Stuart, who died a few weeks ago. Mr. Brown became connected with the Kimberly-Clark Company in 1908, and went with the Neenah Paper Company when that company went under separate management in 1912. He was appointed assistant treasurer in 1919, treasurer in 1920, and treasurer and general manager in 1921.

Join Americanization Classes

Fifty-three employees in the Kimberly mill of the Kimberly-Clark Company have joined Americanization classes at Kimberly. The classes meet every Tuesday and Thursday mornings and evenings so that men from all the shifts can attend twice every week. The Kimberly mill council is making an effort to have all its foreign workmen take steps toward receiving American citizenship.

News Print Service Bureau Meets

The regular quarterly meeting of the News Print Service Bureau was held Friday, October 28, at the Hotel Commodore. There was a large and representative attendance both at the business meeting and at the 12.30 o'clock luncheon. After transacting the routine business of the meeting three very interesting and pertinent addresses were given. Magnus W. Alexander, managing editor of the National Industrial Conference Board, spoke on "Business and Industrial Conditions in Europe." Richard B. Gardner, assistant secretary of the Association of National Advertisers, addressed the meeting on the "Prospects for National Advertising in 1923." And last, D. C. Seitz, of the New York World, spoke on forestry and its great importance to the United States.

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PAPER DEMAND IN TORONTO CONTINUES TO GROW BETTER

Jobbers State that October Has Been the Best Month this Year and They Are Looking for a Continued Improvement—Decided Improvement Also Has Been Noted in the Rag and Waste Paper Market—Considerably Better Demand for Boards With Prices Advancing—Tissue Mills Report Business Increasingly Good—Market for Wood Pulp Improving—Other News of the Trade.

[FROM OUR REGULAR CORRESPONDENT.]

TORONTO, Ont., November 1, 1921.—On Monday next the annual observance of Thanksgiving Day will be held in Canada and the paper trade will have a good deal to be thankful for. It has come through a period of general unsettlement with less loss and less disturbance than many other industries. The business all along the line is improving and this is particularly true in book, bond, writing and ledger papers. News print mills are also well employed. Jobbers report that October has been the best month so far this season and they are all looking for a good turnover from now until the end of the year. Price reductions seem to be a thing of the past and consumers are becoming convinced that values have touched bottom and are purchasing more freely, although big consignments are not yet to the front. The spirit of confidence is asserting itself, however, and things are on the mend although some branches of the trade such as manila wrapping and coated papers could stand a little more activity.

There has been a decided improvement in the rag and waste paper market during the past few weeks and prices have advanced on every line. Owing to renewed activity on the part of the mills there has been considerable buying and stocks of many kinds are rather scarce. The demand for new cotton cuttings and roofing rags is good with values ascending but as in waste paper, supplies seem to be low.

Board Prices Are in the Ascendancy

Paper box plants are quite busy at present and some of them are working overtime, which reminds one of the great rush over a year ago. The price of straw board, chip board and No. 3 jute board, which went up five dollars a ton last week, making the figure fifty-five dollars, is a sign of improvement in the business. Other lines of board remain at the same figure although the Canada Paper Board Company during the last few days advanced a number of the specialties from five to ten dollars.

Tissue Mills Are Kept on Move

Toilet and tissue mills are pretty busy at the present time and report orders for several weeks ahead. The new Harper-Four-drinier machine, 140-inch trim which was installed some time ago by the Interlake Tissue Mills at Merritton, is working satisfactorily and has resulted in increasing the capacity of the plant to twenty-five tons daily in tissues, light weight wrappings, white and colored drug wrap, fruit wrap, etc. Peter Rausch, who has been ten years with the company, has been appointed acting superintendent of the mill and W. J. Parks, former chief accountant, has been promoted to the post of acting mill manager.

Paper Trade Holds Weekly Luncheons

The Toronto members of the Canadian Paper Trade Association now hold luncheons every Tuesday at the Mossop hotel. These matters of general interest are talked over and the spirit of good fellowship cultivated. The meetings are proving of much profit and at the last session R. Earle Milligan, of the Seaman, Patrick Paper Company, Detroit, was the guest of honor. Mr. Milligan stated that he had never made a speech but invited the members to fire any questions at him which they liked and he

would do his best to answer. The result was one of the most instructive and pleasant gatherings yet held.

Coated Paper Industry Picks Up Slowly

Coated paper plants are getting busier although no great rush is reported as yet. P. L. Colbert, manager of the Valleyfield Coated Paper Mills, Valleyfield, Que., was in Toronto last week on a business trip and left for a visit to the Pacific Coast. It is understood that he will appoint a number of agents for the company in the western provinces where the demand for coated paper is rapidly increasing.

New Line Will Tap Pulpwood

Premier Drury turned the first sod on the extension of the Timiskaming and Northern Ontario Railway from Cochrane to James Bay and work will proceed with the addition. The new line will tap a country rich in pulpwood and water powers and will result in greater development of the timber and other resources of the North. Last year the Ontario government spent nearly six million dollars in the development of that portion of Ontario.

Finds Market for Pulp Improving

Hon. T. W. McGarry, of Toronto, President of the Whalen Pulp and Paper Mills, returned last week from Vancouver where he attended the annual meeting of the company. He says that things are going exceedingly well at the mills and he found that the market for pulp was improving.

Many Papermen Go Hunting for Game

The duck shooting and deer hunting season is at hand and many paper men are leaving this week to engage in their annual pastime. I. H. Weldon and S. F. Duncan, of the Provincial Paper Mills, Limited, Toronto, and N. L. Martin, Toronto, secretary of the Canadian Paper Trade Association are members of the Hartley Bay Hunt Club. They are on a moose hunting expedition in the French river district. Another party consisting of T. H. McDermott, of the Lincoln Paper Mills, Toronto; E. G. R. Clarke, of the Canadian Nashua Paper Company, Petersboro; Charles Martin, of National Paper Goods, Hamilton, and John T. Berhalter, of the Interlake Tissue Mills, Toronto, are duck shooting this week at Long Point on Lake Erie. Their headquarters are at Normandale.

Annual Revenue Shows Big Gain

It is expected that the annual revenue from the forests and Crown lands of Ontario will this year reach four million dollars which is double the amount of two years ago. The fiscal year of the government closes this week. The increase of one hundred per cent is mainly accounted for by reason of the raising of the dues on timber and pulpwood.

Plant at Dryden Is Busy

W. F. V. Atkinson, manager of the forestry and woods operation for the Dryden Pulp and Paper Company, Dryden, Ont., is spending a holiday in Toronto. He states that the company is now running nearly to capacity and has ample supply of pulpwood for the coming season. The kraft pulp mill is turning out about seventy tons daily and the paper mill about twenty tons of kraft sheathing and kraft wrapping papers. The financial statement of the operations of the company for the year ending October 1 will shortly be issued and it is stated the showing will be a most satisfactory one. The cash position of the company is reported to be very satisfactory.

Timber Dues Case Will Go to Court

The negotiations between the interests of Shevlin-Clarke, of Fort Frances, Ont., and the Ontario government looking to a

(Continued on page 22)

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CADY AUTOMATIC PAPER *and* BOARD SCALES

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Our Paper Scales gives the weight automatically of any sheet of Paper or Board weighing from one lb. up to 120 lbs. per ream of 480 sheets and 500 sheets and 500 sheets in kilograms.

Our Board Scales gives number of sheets of size of sheet you are weighing it takes to make a bundle of 50 lbs.

Our Tag Board Scale weighs 500 sheet count from 5 lbs. up to 1000 lbs. Our Felt Scale automatically gives the weight per 108 Square Feet graduated in tenths of a pound.

These machines are carried in stock by

C. B. HEWITT & BROS., 16-24 Ferry St., New York

E. J. CADY & COMPANY

326 W. Madison Street

Chicago, Ill.

BIDS AND SPECIFICATIONS FOR GOVERNMENT PAPER

Purchasing Officer of the Government Printing Office Receives Bids for Various Lots of Paper at Interesting Prices—Purchasing Officer of the Government Printing Office Makes Awards for Paper on Which Bids Were Opened Recently—Post Office Department Will Open Bids November 30 for Large Lot of Official Envelopes and Registered Package Jackets for the Postal Service.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., November 2, 1921.—The Purchasing Officer of the Government Printing Office has received the following paper bids:

3,300 pounds light pink writing paper 28 x 34—No. 13: The Aetna Paper Company, \$.1625 per pound; R. P. Andrews Paper Company, \$.1865; Mathers-Lamm Paper Company, \$.2725; Dobler & Mudge, \$.195; the Whitaker Paper Company, \$.165; Rainbow Paper Corporation, \$.1365; Coy, Hunt & Co., \$.21; George W. Millar & Co., Inc., \$.176; Whiting Paper Company, \$.18; Whiting-Patterson Company, Inc., \$.21; Old Dominion Paper Company, \$.197.

3,600 pounds blue writing paper 21 x 32—No. 20: Coy, Hunt & Co., \$.134 per pound; Maurice O'Meara Company, \$.0975; D. L. Ward Company, \$.105; Virginia Paper Company, Inc., \$.109; George W. Millar & Co., Inc., \$.1195 and \$.1645; Whiting Paper Company, \$.14; Whiting-Patterson Company, Inc., \$.105; Old Dominion Paper Company, \$.1049; R. P. Andrews Paper Company, \$.125; Whitaker Paper Company, \$.13; the Aetna Paper Company, \$.13; Dobler & Mudge, \$.09; Wilkinson Brothers & Co., Inc., \$.1165 and \$.1565.

620 sheets gray melton mount board 22 x 28—8 ply: National Card, Mat and Board Company, \$.0660 per pound; Whitaker Paper Company, \$.0566; Hurlock Brothers Company, Inc., \$.0625; Dobler & Mudge, \$.079; Old Dominion Paper Company, \$.0679; R. P. Andrews Paper Company, \$.0725; George W. Millar & Co., Inc., \$.075; Samuel S. Alcorn, \$.08.

1,150 pounds yellow writing paper 17 x 28—No. 9: R. P. Andrews Paper Company, \$.33 per pound; Rainbow Paper Corporation, \$.1785; Whiting Paper Company, \$.18.

1,000 pounds white stereotype molding paper 19 x 24—50: Dobler & Mudge, \$.114 per pound; Old Dominion Paper Company, \$.1099; R. P. Andrews Paper Company, \$.105; Mathers-Lamm Paper Company, \$.1122; George W. Millar & Co., Inc., \$.155; Virginia Paper Company, Inc., \$.122; Whitaker Paper Company, \$.1158; Reese & Reese, \$.1075; Coy, Hunt & Co., \$.117; Wilkinson Brothers & Co., \$.111.

5,000 pounds 25 x 38—50 M. F. salmon printing paper: R. P. Andrews Paper Company, at \$.0885 per pound; Whitaker Paper Company, at \$.0889; George W. Millar & Co., Inc., at \$.8825; Dill & Collins Company, at \$.0765; Maurice O'Meara Company, at \$.079; and Wilkinson Brothers & Co., at \$.082.

3,700 pounds 24 x 38—74 rope manila paper: Dobler & Mudge, at \$.0975 per pound, and Maurice O'Meara Company, at \$.102.

The Purchasing Officer of the Government Printing Office will open bids on November 7 for 500 pounds of red stereotype moulding paper.

Printing Office Awards

The Canfield Paper Company has been awarded the contract by the Government Printing Office for furnishing 75,400 pounds (1,300 reams) of 38 x 48—58 opaque printing paper at \$.077 per pound, bids for which were opened on October 19.

Post Office Bids

The Post Office Department announces that it will open bids on

November 30 for official envelopes and registered package jackets for the postal service. Bids will be received for the envelopes and jackets both for a six months' period beginning January 1, and for an 18 months' period beginning January 1. It is estimated that the department will need in the vicinity of 85,000,000 manila and craft envelopes for the six months, and approximately 4,000,000 registered package jackets for the six months' period. The quantity to be used in the 18 months' period is in proportion.

The Post Office Department has announced that it will open bids on November 22 for several million envelopes for the use of the Government departments for a period of six months beginning January 1.

The Dill & Collins Company has been awarded the contract by the Purchasing Officer of the Government Printing Office for furnishing 5,000 pounds (100 reams) of 25 x 38—50 of salmon M. F. printing paper at \$.0765 per pound.

The Mathers-Lamm Paper Company will furnish 3,700 pounds of 24 x 38—74 rope manila paper at \$.0975 per pound. Bids for these items were opened on October 26.

PAPER DEMAND IN TORONTO

(Continued from page 20)

settlement of the action of the government against the company for the payment of amounts claimed to be due on timber cut and not paid for in past years, have ended in failure. The matter will now be pressed in the courts as originally intended. It is said that the issue between the government and company was entirely one of amount. The company was prepared to admit that returns did not cover all the timber it had cut and was ready to pay for a certain amount, which, at the regular Crown dues, would have given the province somewhere around \$200,000, though no definite offer of settlement was made to the government. The claim of the government is much greater than this sum.

Notes and Jottings of the Trade

George H. Millen, President of the E. B. Eddy Company, Hull, Que., who last week celebrated his eighty-third birthday and has been identified with the company for some sixty years, was a recent visitor to the company's branch in Toronto and received a warm welcome.

Among the pulp and paper men visiting Toronto during the past week were: Percy B. Wilson, of Sault Ste. Marie, President of the Canadian Pulp and Paper Association; C. H. L. Jones, of Sault Ste. Marie, manager of the Spanish River Pulp and Paper Mills; George R. Gray, manager of woods operation for the same company; W. S. McClellan, of the Producers' Paper Company, Minneapolis; DeForest Coutts, of the Whiting Paper Company, Holyoke, Mass., and Mr. Falkenburg, Price Bros. & Company, Quebec.

Southern Cotton Paper Company To Build

[FROM OUR REGULAR CORRESPONDENT.]

CHATTANOOGA, Tenn., Oct. 31, 1921.—Construction work began the last week in October on the new plant and paper mill of the Southern Cotton and Paper Company, at Chattanooga, and it is expected that the building will be completed and the machinery installed in time for the plant to start operations by the early part of next Spring. The initial capacity of the plant will be fifteen tons of paper daily.

The Southern Cotton and Paper Company was organized and incorporated recently to manufacture paper and paper pulp out of cotton linters, using a process discovered and patented by Mercer Reynolds, a well known Chattanooga business man who heads the company. The capital stock is \$200,000 and several business men of Chattanooga are reported to be financially interested in the enterprise.

The new plant will be a one-story building, occupying a site 60 by 160 feet. The paper machine is of 72-inch type.



Would you like to put on a wire without danger of crimping it, or buckling the rolls?

You *can* do it on a BELOIT Fourdrinier and not remove a roll, suction box or save-all.

Ask Beloit!



Beloit, Wis., U. S. A.



PAPER MILLS IN MICHIGAN GROW INCREASINGLY BUSY

Bryant Paper Co., Largest Book Mill in the Middle West, Starts Its Entire Plant at Maximum Capacity—Other Paper and Allied Concerns in Michigan Also Are Constantly Growing More Busy—Eddy Paper Co. to Vote on Changes in Capital and Other Important Changes at Its Annual Meeting to Be Held Nov. 9—Other News in the Michigan District.

[FROM OUR REGULAR CORRESPONDENT.]

KALAMAZOO, Mich., October 31, 1921.—The Bryant Paper Company operating the largest book mill in the Middle West, starts its entire plant at maximum capacity this week. The tenth paper machine, one in the Bryant division, will be put in operation and the entire mill will be running 24 hours daily and giving employment to over 1,200 hands.

Two machines were started at the plant during the past two weeks. The last machine has been undergoing extensive repairs and could not be started until this week.

The recent slack period has been improved by the Bryant company in doing a lot of work at the plant. The machine room of the Bryant division has been entirely rebuilt. Timbers put in place in 1895, when the initial unit of the plant was erected, were removed and replaced by reinforced concrete supports. A new cement floor and a new fire proof roof were added to the apartment, while the sidewalls were reinforced. This division is now in splendid condition.

Sutherland Paper Co. Increasingly Busy

The Sutherland Paper Company has such a bulk of business on hand that it has been found necessary to operate the carton division 24 hours a day. The company is now advertising for skilled pressmen and other help in order to start at full capacity as soon as possible.

"Business is good with us," remarked L. W. Sutherland, president of the company, "in fact it has been for several months. Now it is improving rapidly. We have several very fine orders booked and it is likely we will run steadily from now on."

When the Sutherland Paper Company abandoned its parchmentizing division it turned that building into added space for the carton plant, nearly doubling its capacity for the production of butter cartons.

Other Concerns Busy

Officials of the Cleveland-Cliffs company announce that the Munising Paper Company's plant, also the Cleveland-Cliffs saw mill, both located in Munising, started on Monday with a full force of employees. The paper mill has been down for two weeks and before that ran for months with a greatly reduced force. It is the intention now to have 350 to 400 hands working immediately. The saw mill has started to run double shifts, with a total of 160 hands. The Pioneer Chemical plant, at Marquette, employing 525 men, is also running again. It is a Cleveland-Cliffs unit.

The Escanaba Paper Company, maker of news, reports an unusually heavy trade during the past thirty days. Many customers were frightened at prospects of a railroad strike and ordered immediate deliveries to stave off possible shortage.

Eddy Paper Co. To Meet

Changes in the authorized capital of the company and a change in the date of the annual meeting of stockholders and directors are matters to come at a special meeting of the stockholders of the Eddy Paper Company, called for Wednesday, November 9, at 10.30 o'clock in the morning, in the company's offices, Three Rivers.

It is desired to amend the by-laws to read so that the annual

meetings of stockholders and directors will be held on the third Wednesday in June, each year, also that special meetings can be called by the president, vice-president, or by a majority of the directors or by stockholders, holding at least one-third of the subscribed stock of this corporation.

The statement of authorized capital now reads: "The capital stock of the corporation hereby organized is the sum of \$15,000,000, of which \$12,000,000 shall be common stock, and \$3,000,000 shall be preferred stock. The number of shares into which capital stock is divided is 1,500,000, of the par value of \$10 each."

If amended, the articles of association would read as above to the last clause, which is to be changed to: "The number of shares into which the capital stock is divided is 2,130,000 shares, of which 300,000 is preferred stock, of \$10 par value each and 1,130,000 shares of common stock, of the par value of \$10 each and 700,000 shares of no-par value stock.

"The value placed upon the no-par stock by the corporation for purpose of sale to the subscribers, shall be \$1.00 per share, provided that directors shall not have the right to sell any of said stock without first offering it pro-rata to the present common stockholders."

The notice of the meeting is signed by A. B. Thomas, secretary. If the above provisions prevail, present common stockholders will be entitled to purchase seven shares of no-par stock for each 11.3 shares on common stock now held.

In addition to the above outstanding securities, the company has also sold seven and a half per cent first mortgage bonds to the amount of \$1,250,000. Half the bonds must be retired before dividends will be available for the common stock. The Eddy Paper Company passed its last preferred stock dividend of 1¼ per cent for the third quarter of the ensuing year.

General News of the Trade

The Rex, Monarch and Bryant Paper companies united in donating the Central High School News with 1,500 pounds of paper, enough to print the 1921-22 edition complete.

Bailey Ayers Wright, of C. H. Wright & Co., has gone to Kansas City to attend conventions of the American Legion, also as delegate to the "Box Car" organization, a special division of the legion. He is an accredited "Box Car" delegate. From Kansas City he goes to Omaha to take in the National aero meetings.

Peter Roeland, employed at the King Paper Company's plant, recently uncovered a package of bond coupons, calling for interest on \$40,000 in bonds. After cashing coupons to the value of \$631.00, interest due, Mr. Roeland voluntarily handed back the money to the bank, also the uncashed coupons, the belief being expressed by officers that the bonds were stolen. Detectives are now tracing the bonds back to Lauderdale county, Miss., where they were issued.

Kalamazoo Vegetable Parchment Community workers are setting the stage for a monster Christmas party to be held in the community house now under construction in that thriving suburb. The gathering will be designed to serve a double purpose and it is the intention of the committees to make the affair one of the most elaborate and extensive of the kind ever held in Kalamazoo. None of the details are sufficiently completed to be announced as yet.

Terre Haute Paper Co. to Start New Machine

TERRE HAUTE, Ind., October 31, 1921.—Work is progressing rapidly on the erection of an additional paper machine at Mill No. 2 of the Terre Haute Paper company at Voorhees street and Prairieton avenue and when ready for service in November, the company contemplates operating the entire mill at full capacity and will employ 125 men. Mill No. 1, located at Nineteenth street and the Vandalia railroad, is already in operation and at present is employing 100 men.

J. Andersen & Co.

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

A-1 Bleached Sulphite

Agents for

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

WAYAGAMACK

KRAFT PULP

*Uniform in Quality
Essential for Strength Requirement*

The Pulp and Paper Trading Company

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

Sole Agents for United States for

CANADIAN KRAFT, Ltd.

Three Rivers, Canada

DEMAND IN PHILADELPHIA IS CONSTANTLY IMPROVING

While Conditions as Yet Are Not All That Could Be Desired There Seems Every Probability That Normalcy Soon Will Return—No Recessions in Prices Have Been Noted But on the Other Hand There Have Been Slight Advances in Some Varieties of Paper—Forestry Department of Pennsylvania Issues Interesting Report on the Wood Pulp Industry of the State—V. B. Schroff Enters Business.

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, November 1, 1921.—In its issue of the official journal, "Business and Financial Conditions," the Federal Reserve Bank for the Philadelphia or Third District will say: "September is said to have been the last month of the year for the paper industry and substantial increases that have occurred in sales are proof of this statement. Local distributors report that October sales in all lines will equal, if not excel, those of September."

This diagnosis of conditions in the paper trade made by an authority peculiarly competent to secure inside information, particularly as these deal with finances and credits, confirms the statements made week by week in these columns regarding the experiences of both the fine and the wrapping paper distributors. It is admitted that the October business was not quite up to what the trade calls the standard of the month. October usually is the best month of the year, and although of this October the same may be said, applying, of course, to 1921, it must be remembered that this year has by no means equaled the average of its three or four immediate predecessors. But even though there has been a loss from that average, there is steady and continuous gain, and there is ahead every prospect of continued improvement and every probability that in a short time normal conditions will return.

Business Growing Better

The week's experiences were uneventful but entirely satisfying in that the promise of better things held forth by the week before was realized. Both branches of the trade reported a gain. In both prices have steadied themselves and there have been fractional advances. No recessions of any kind were reported and none are expected for this month. Some grades of No. 1 kraft were advanced a quarter cent, as also were the leading brands of drab express. A well-known book mill which, it is believed, is about to develop its business directly with the consumer and without the intervention of the jobber, declined during the week to give quotations, and it is anticipated that when they do appear, they will be advanced. Cheap writings strengthened in price during the week, and in one or two brands fractional advances were recorded. Box board prices were firmly maintained. The paper stock dealers report a slightly increased mill consumption of the better grades of stock, but not a sufficiently active market to advance prices. They tended, however, to become firmer. There continues to be a fairly good market for all kinds of commons and mixed papers and these frequently can be disposed of at the outside quotations. Out-of-town mills have sent in many inquiries and quite a few orders. This has, of course, tended to decrease the supply available for the local consumers, and since there is comparatively little waste being gathered up the market is cleaned up and the necessity for larger local supplies will mean that prices must be advanced.

Interesting Announcement to Be Made Soon

One of the largest of the local distributors shortly will make an announcement of tremendous trade interest and import. Rather sensational rumors have been put into circulation, but investigation

shows these to be unwarranted. A formal statement is in course of preparation and this will set forth the true conditions and the real reasons why one of the most interesting changes in the Philadelphia paper trade in the last decade or more is to be made. Announcement is withheld only because the final details have not been completed.

Pennsylvania Pulpwood Industry

Professor Joseph S. Illick, chief of the Research Bureau of the Pennsylvania State Department of Forestry, issued during the week a preliminary report on the wood pulp industry of the Commonwealth. He reports in the State thirteen pulp mills which last year consumed 489,211 cords of wood and thus attained the rank of fourth place in the pulp production of the United States, Maine, New York and Wisconsin exceeding. The total cord wood consumption for last year he reported as 6,114,072. He estimates that in Pennsylvania the pulp mill investment aggregates \$50,000,000, giving employment to 7,144 persons, paying salaries and wages of \$12,461,948, and producing pulp valued at more than \$60,000,000, 75 per cent of the raw materials being imported from other States. Four of the Pennsylvania mills thus imported all the cord wood used, while eight imported more than 75 per cent. Spruce, beech, birch, maple, pitch pine, poplar, gum, hemlock and sycamore were used.

Vernon B. Schroff Opens Office

Widespread interest is taken in the announcement that Vernon R. Schroff, for many years head of the book paper department of the Whiting-Patterson Company, retired during the week to enter business for himself. Mr. Schroff has taken an office at 920 Drexel building, where he will do a brokerage business in book papers, handling a number of important accounts. He is widely known in the trade. Before associating himself with the Whiting-Patterson Company he was connected with the Martin Cantine Company, the Charles H. Clinton Company and other organizations. Mr. Schroff will trade as the Read Paper Company.

Continental Paper and Bag Mills Move

In order to be more centrally located the Continental Paper and Bag Mills during the week removed their offices from the Land Title building, Broad and Chestnut streets, to room 374 The Bourse, Fifth and Market streets. Louis T. Condon is in charge. The company recently has been conducting an aggressive sales policy and has as a result been enjoying a very active business.

E. D. Epes Joins Ward Co.

E. D. Epes, until recently a member of the firm of the Epes-Fitzgerald Paper Company, Richmond, Va., during the week joined the sales service department, and as assistant to Thomas J. Cyrry, in charge, will give his undivided attention to sales promotion in the Baltimore, Washington, Richmond district, in which the Ward company has branch warehouses and offices. Mr. Epes was at headquarters during the week, developing a promotion campaign. His function will be to visit large paper consumers, pointing out the advantages of the brands which the Ward company carries and advising purchases through the regular printer or supply house. Mr. Epes's connection with the trade began a decade ago, when he entered the employ of the Richmond Paper Manufacturing Company, first as shipping clerk, but soon thereafter as salesman in the city of Richmond. After six years of service he established with T. H. Epes, a distant relative, and J. M. H. Fitzgerald the Epes-Fitzgerald Company, paper distributors, of which he was secretary and treasurer. He disposed of his interests in the firm on July 1, continuing on the sales force, however, until October 1, when he retired. During the week he entered the Ward organization. Frederick Balch, for a short period with the D. L. Ward

(Continued on page 28)

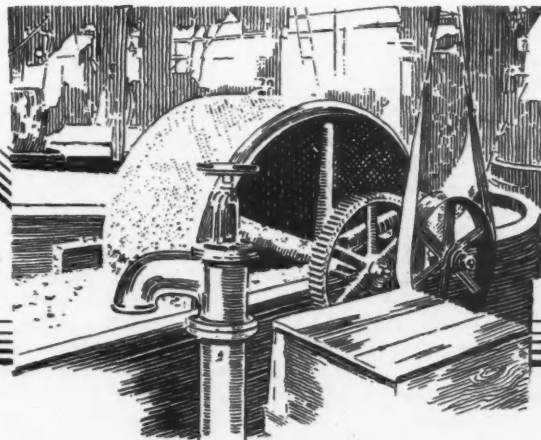
DO YOU KNOW

that the Bird Continuous Beater Attachment will reduce the number of beaters in operation usually by half?

BIRD MACHINE CO.
South Walpole, Mass. U.S.A.

Western Representative
T. H. Severy, Jr., 1718 Republic Bldg.,
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Canadian Builders of Bird Machinery,
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James St., Montreal, Canada.



88-187

The
**BIRD CONTINUOUS
BEATER ATTACHMENT**

DEMAND IN PHILADELPHIA IS CONSTANTLY IMPROVING

(Continued from page 26)

Company, resigned during the week to take charge of the fine paper department of E. Latimer, Jr.

General News of the Trade

The Garrett-Buchanan Company sales organization was further increased during the past week. William Long, formerly of the Frank W. Farrell Company, Real Estate Trust Company building, joined it and was assigned to the specialty department. Preston S. Benner, better known as "Arch," left a joint sales arrangement with the Richards Company and the Whiting-Patterson Company to join the general sales force of the Garrett-Buchanan Company.

The recently organized social organization of the Whiting-Patterson Company has adopted the name The World's Cities Club, and during the week it conducted a masquerade dance in the company's headquarters, 13th and Wood streets, the desks being shoved to the side walls and a large dance floor thus provided. The room was decorated with paper festoons.

William A. Whiting, of the Sheldon School for Salesmanship, spoke of the Whiting-Patterson sales organization on Thursday morning of last week on "Business Building."

Edward Emigh, superintendent of the Amboy Paper Company plant at Bridgeport, Pa., was seriously scalded during the week while at work tightening a steam trap on a boiler when it blew out. His face and shoulder were scalded. His condition is not critical.

An award of \$5,000 damages against the Garrett-Buchanan Company was rendered during the week in the Camden Circuit Court in the suit brought by Dorothy Cline, 14 years old, for injuries received near her home at Lansdowne and Mount Ephraim avenues, by being struck on March 24, last, by a truck owned by the defendant company. An award of \$500 additional was made to the child's father. The child was walking on the sidewalk when the truck careened and struck her, causing injuries to the leg.

The new office of the New York and Pennsylvania Company, room 209 Lafayette building, 5th and Chestnut streets, formally was opened today. Quite a number of callers were entertained.

Directors of the Pennsylvania Salt Manufacturing Company were re-elected at the meeting of stockholders held during the week. At the subsequent meeting of the board of directors the officers of the company were unanimously re-elected.

Sparks from an emery wheel in the carpenter shop of the Barrett Manufacturing Company, 36th street and Gray's Ferry Road, caused a fire which threatened destruction of the plant, but which was extinguished, with loss of about \$10,000. The flames spread from the carpenter shop to an adjoining building in which roofing papers, just saturated, were stored and these burned fiercely.

W. Allen Lindsay, of Lindsay Brothers, during the week bested Harry G. Coladay in a stirring clay target duel in the clubshoot of the Quaker City Gun Club over the Maple Grove Traps. These were the stars. There were, however, thirty-four shooters.

President J. L. N. Smythe, of the company bearing his name, returned to the city last week from a visit to North Carolina, during the course of which he was guest at a "possum" hunt. Mr. Smythe didn't tree a "possum," but did come back with a scratched shin, caused by a misstep.

The Philadelphia Felt Company, Frankford, reports a decided improvement in paper mill demand for its products.

Harry G. Gaither, sales manager of the Garrett-Buchanan Company, has entered into the twenty-fifth lap of his services with the company, his twenty-fourth anniversary having been quietly celebrated on October 12. He is now the only Garrett-Buchanan Company employee at the time of his association with the company still in its employ. When he took a position with it, headquarters were in the small buildings, 3 and 5 South Marshall street, now only a part of the company's shipping quarters. It

occupies today buildings which in the olden days successively were headquarters for the Whiting Paper Company, Irwin N. Megargee & Co., Riegel & Co., the Megargee Paper Company, Dill & Collins Company, Alexander Balfour, and the Megargee-Hare Company.

The office force of Sylvester S. Garrett, wrapping papers, 3rd and Spruce streets, have established their own cafeteria in the building. Warm lunches are served every work day noonday to the office force.

Chicago Situation Improving

[FROM OUR REGULAR CORRESPONDENT.]

CHICAGO, November 1, 1921.—The consensus of opinion in the paper trade circle during the week just past was to the effect that the month of October, has marked the beginning of a new era of business for the industry. During the past month the jobbers and wholesalers say they did better business than they have done for several months. Paper buying began to show a resumption during October, they say, and they expect that this better tendency will continue throughout November with possibly a more definite recovery and turning toward normalcy in the coming Spring.

The averting, if for only a temporary period, of the railroad strike, last week here, has added a great deal more confidence to members of the trade, and their outlook is much brighter. They are getting orders, and some of them say that their business is such that they have again returned to a place where they are forced to make rather indefinite promises concerning delivery.

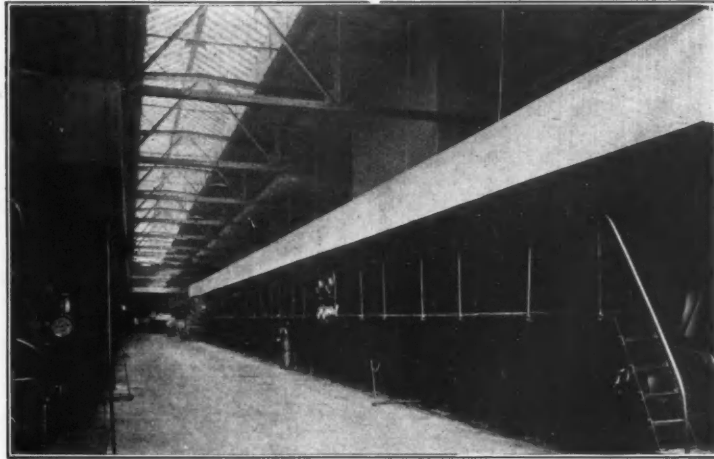
Beginning during the middle of September, the paper business here has been showing better signs. Buying has been easier, and while orders have not been for large volumes, and the buyers are still governing purchases by their immediate requirements, there has been a greater feeling of better business and more prosperous times ahead, and this feeling has given a lot of faith in the future to the members of the Chicago trade.

Kraft wrappings showed a stiffer time during the past week. The \$10 advance in the price of this grade registered here last week by one of the larger houses, makes the second increase this paper has shown during the past two months. On September 1, an advance of \$10 a ton was made on Kraft wrappings and the recent increase like the first, is accredited to the greater demand evidenced lately, with low stocks predominating. It is said here that two houses put up their price almost simultaneously. One of these was a large dealer and the other was a smaller house. Other houses are expected to fall in line later. Kraft here now is selling from \$140 a ton up.

This is but a sign of the better market conditions which have been gradually making themselves evident during the past several weeks. Two or three weeks ago, several mill representatives here indicated that advances due to low stocks, increased raw material costs, and heavier demand, would shortly be effected. Some of the representatives were notified by their mills not to accept orders on a price before getting the latest prices from their mills. In one mill letter notifying its Chicago representative of the changing conditions prevailing, the mill said that its Chicago agent should handle orders very carefully, and at all times, until otherwise notified, confirm its price lists by wire to the mill before actually closing the sale.

The dominating feeling here among members of the trade is that the late Fall and Winter months of this year will bring about a change for the better in the industry and that by next Spring the paper industry, especially in the middle western territory will again be showing some of its old time zest and vigor.

ROBERT GAIR'S LATEST



ROBERT GAIR CO., MONTVILLE, CONN.

PHOTOGRAPH SHOWS TWO MACHINE MILL FORMERLY KNOWN AS THAMES RIVER SPECIALTIES CO.

THESE TWO MACHINES WERE EQUIPPED WITH VAPOR ABSORPTION SYSTEMS. THIS YEAR THEY ADDED 14 DRYERS ON ONE MACHINE AND 26 DRYERS ON THE OTHER.

WE REMODELED THE VAPOR ABSORPTION SYSTEM TO TAKE CARE OF THE INCREASED OUTPUT. NEW DRYERS ARE IN FOREGROUND AND ADDITIONAL AIR DUCTS CAN BE SEEN IN TRUSSES. NO ADDITIONAL FANS WERE REQUIRED.

THIS MILL ALSO EQUIPPED WITH STURTEVANT SYSTEM IN BEATER ROOM.

OTHER GAIR MILLS EQUIPPED BY US AT PIERMONT, N. Y., AND HAVERHILL, MASS.

J. O. Ross Engineering Corporation

549 W. Washington St.
Chicago, Ill.

30 E. 42nd St.
New York City

79 Milk St.
Boston, Mass.

OUTLOOK FOR PULP AND PAPER IS MUCH BRIGHTER IN CANADA

Improvement Has Been Reflected in a Marked Revival of Confidence on the Part of the Public Toward the Pulp and Paper Securities Listed on the Montreal Stock Exchange—Almost all the Pulp and Paper Shares, Led by the Laurentide, Have Advanced in Price and Many Think that a Definite Upward Movement Has Begun—Spanish River Mills Working Full Capacity.

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, Que., October 31, 1921.—The outlook in the pulp and paper industry has been appreciably brighter during the past week and the effect has been noticed in a marked revival of confidence on the part of the public towards the pulp and paper securities listed on the Montreal Stock Exchange. Practically all the pulp and paper shares, led by Laurentide, have advanced in price and there are many who think that a definite upward movement has begun.

Spanish River Mills Working Full Capacity

Word has been received here to the effect that the plants of the Spanish River Pulp and Paper mills are now producing to their full capacity. Some weeks ago, the president, George H. Mead, in a statement made for publication, said that the mills were then operating between 80 and 90 per cent of capacity. This bears out recent reports of a notable change in the temperament of the market. Consumers are not reported to be more anxious to sign up for supplies than they were a short time ago.

The St. Maurice Paper Co.

H. W. Cressy has been appointed sales manager of the St. Maurice Paper Company, Montreal. Mr. Cressy was in charge of various departments in the Canadian Export Paper Company, Montreal, for four years, and he learned the paper business, in which he is well posted, with the Great Northern Paper Company, Millinocket. It is reported here that the reason why the St. Maurice Paper Company has signified its withdrawal from the Canadian Export Paper Company is that it has made a contract for all its output for a period of five years. This report is not authoritative and is given for what it is worth.

It is also reported that American consumers of Canadian news print are now more favorably disposed to talk contracts for the ensuing year than they were a few weeks ago. Cessation of operations by a number of mills which went into the news print line temporarily and the restriction of output by other mills have prevented a surplus and other factors have contributed to a stronger tone in the news print market.

Mortality Among Newspapers

Some discussion is taking place in the papers here as to the number of publications which went out of existence during the period of high-priced paper. A statement has gone around the press to the effect that more than 4,000 publications went out of existence in the United States in the period and a corresponding number in Canada. Edward Beck, of the Canadian Pulp and Paper Association, in a letter to the *Montreal Herald*, says: "I am curious to know just where the information to substantiate this statement can be obtained, since the best available records do not disclose any. The *Canadian Newspaper Directory*, issued by A. McKim, Limited, shows a total of 1,150 newspapers of all kinds published in Canada at the beginning of this year compared with 1,158 in 1920, a net loss of 8. The *American Newspaper Annual and Directory*, which covers both the United States and Canada,

shows a decrease of only 55 publications in both countries for the year 1920, which is a long distance from the "four thousand" stated by *The Herald*.

"Even if the enquiry is carried back to pre-war times it does not show anything like the figures given by *The Herald* as applying to a single year. Canada had 1,337 newspapers of all kinds in 1913 against 1,150 this year, or a reduction of 184, while taking the United States and Canada as a whole the figures show a net decrease of 2,495 publications, big and little. In 1920, 1,086 new publications were started in the two countries and this year has witnessed another large accession to the number, so that it is probable that within a year or two the pre-war figures will be equaled if not surpassed."

Dryden Pulp and Paper Position Improving

The annual financial report of the Dryden Pulp and Paper Company, covering the fiscal year ended October 1, last, will be in the hands of shareholders within a few weeks' time. It is understood that the report, while dealing with a period of general unsettlement in the industry, while the plants of the company were practically at a standstill, will be encouraging. The cash position of the company is said to be especially strong, while the working position will be shown as entirely satisfactory. Current assets will be well in excess of \$1,000,000. Since October 1, the company has been in receipt of some good orders for its products, which has resulted in capacity operations. The sulphate mill is now turning out 70 tons per day, while the kraft mill is producing 13 tons of paper, the board mill also being active. It is stated that orders received are sufficiently large to keep the plants running for some time to come.

Lumbering Improving

Lumbering in Northern Ontario and Quebec will be carried on during the coming Winter on a much larger scale than was indicated two months ago. The cause of the revival is the big decrease in wages. Skilled workers are being employed for \$30.00 a month. This means that the lumbering companies will be able to cut, haul and drive logs to their mills for approximately forty per cent of the amount paid a year ago.

New Power Development

A contract for the construction work on the \$10,000,000 power development scheme at Great Falls, on the Winnipeg River, sixty miles from Winnipeg by the Manitoba Power Company, Limited, has been awarded to Fraser, Brace & Co., contracting engineers, of Montreal. Development work is already under way, with about 200 men employed. Ultimately 1,000 to 2,500 men will be required to push work as rapidly as possible.

Standard Paper Co. Buys Seattle House

SEATTLE, Wash., October 27, 1921.—Purchase of the stock, fixtures and furnishings of the defunct Washington Paper Company at a receiver's sale is announced by officials of the Standard Paper Company of Tacoma. The former Seattle wholesale paper house will be operated as the Seattle branch of the Tacoma concern and will deal in standard paper manufactures.

The premises of the former Washington Paper Company are at 311 Occidental avenue and will be operated as in the past, the only change being in ownership and change of name. H. V. Davies, connected with the Standard Paper Company for several years in an executive capacity, will be manager of the Seattle branch. L. B. Cooper, formerly with the Washington Paper Company, will be sales manager for the Seattle house.

The Washington Paper Company was placed in the hands of Sol Friedenthal as receiver August 25 at the instance of the creditors. The Standard Paper Company had long sought an opening in the Seattle district, Manager Davies stated.

Established 1886

A Point of Honor

A CONTRACT with this company is more than a signed instrument—it is a guarantee that both the spirit and the letter of our agreements will be complied with.

IN a word, we believe that financial resources alone are not adequate; they must be backed by high moral responsibility and an intimate knowledge of all problems involved.

THIS business creed has been safeguarding the interests of our customers for more than thirty-five years.

M. GOTTESMAN & COMPANY

INCORPORATED

**18 East 41st Street
New York, N. Y.**

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**Holyoke, Mass.
Kalamazoo, Mich.**

MAINE SUPERINTENDENTS HOLD MEETING AT ORONO

Northeastern Division of the American Pulp and Paper Mill Superintendents' Association and Northeastern Division of the Cost Association of the Paper Industry Are Entertained at the University of Maine—Next Meet Is to Be Held at Rumford at Some Time to Be Announced Later—Resolutions Are Passed Endorsing the Snell Forestry Bill—Those Who Attended the Meeting.

[FROM OUR REGULAR CORRESPONDENT.]

ORONO, Me., October 29, 1921.—Twenty-eight superintendents and cost accountants of pulp and paper mills from various parts of New England gathered at the University of Maine Friday morning for an all-day joint meeting of the Northeastern Division of the Ameri-

passed strongly endorsing the Snell Forestry Bill, H. R. 15,327, and asking that every effort be directed towards its passage. The Snell Bill is designed to effect an adequate and continuous supply of timber for all uses.

Following is the resolution affecting the Snell Forestry Bill:

1. Whereas, the United States, during the last decade, has become more and more dependent upon foreign forests for its supply of pulp-making woods;
2. Whereas, an increased amount of our domestic wood is being used annually and no attempt, or at least, no organized effort, is at present being made to replace the growth cut;
3. Whereas, the future and even the very existence of the pulp and paper industry is threatened by the rapid depletion of our forests;
4. Whereas, the Snell Forestry Bill, as introduced before the 66th Congress, provides for a definite forest policy which will effect an adequate and continuous supply of timber for our uses;

Therefore, be it resolved, that we, the Northeastern Division of the American Pulp and Paper Mill Superintendents' Association,



H. H. HACKETT,
Eastern Mfg. Co.



F. P. HALL,
Pejepscot Paper Co.



B. T. LARRABEE,
S. D. Warren Co.

ARTISTS' IMPRESSIONS OF PROMINENT MAINE MILL SUPERINTENDENTS

can Pulp and Paper Mill Superintendents' Association and the Northeastern Division of the Cost Association of the Paper Industry.

The Superintendents' Association was well represented, there being 24 of their number present, but only four cost accountants were present, one of whom was F. L. Bush, of Holyoke, Mass., president of the Cost Association. Mr. Bush gave the Cost Association address at the evening meeting in Aubert Hall.

Prof. Charles A. Brautlecht, head of the department of chemistry at the University and a member of the Superintendents' Association, was the chairman of the entertainment and program committee and acted as the host. In showing the visitors about the University campus and around the Orono and Great Works paper mills, he was assisted by members of his teaching staff and members of the association from Orono and Old Town.

Owing to the absence of many members of the Cost Association, the semi-annual business meeting of that group was omitted and the time was spent in viewing points of interest on the college campus.

Endorse Snell Forestry Bill

The business meeting of the Superintendents' Association was held, however, and a resolution was submitted and unanimously

go on record as approving the Snell Forestry Bill, H. R. 15,327, and ask that every effort be directed towards its passage.

Committees Appointed

The following served as the committee on resolutions: B. T. Larrabee, of the S. D. Warren Company Cumberland Mills; Oscar Ingalls and Fred P. Hall, of the Pejepscot Paper Company, Brunswick; C. F. True, of the Forest Paper Company, Yarmouth; William Foley, of the Nekonegan Paper Company, Old Town.

Hebron H. Hackett, of the Eastern Manufacturing Company, chairman of the Northeastern Division, appointed L. P. Parkman, of the S. D. Warren Company, Cumberland Mills; W. T. Libby, of the Dupont Company, Boston; and Oscar Ingalls, of the Pejepscot Paper Company, Brunswick, as the entertainment and program committee for the next meeting, with power to name the date and place. In short committee meeting, it was voted to hold the next meeting at Rumford Falls, in May, the time to be announced later.

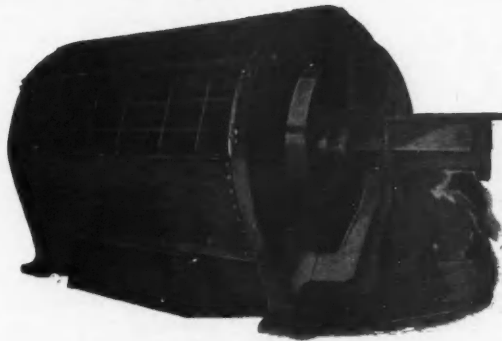
Excellent Entertainment

Lunch was served in the Balentine Hall dining room at 1 o'clock, after which the visitors formed small groups and, guided by Orono-

(Continued on page 34)

"IMPCO" TAILING SCREENER FOR SCREENING GROUND WOOD TAILINGS

Very Low
Power
and
Upkeep Expense



Delivers
Rejections Free
from Good
Stock

ANOTHER UNIT OF OUR CLOSED SYSTEM FOR PULP SCREENING
WRITE FOR FULL DETAILS *CORRESPONDENCE A PLEASURE*

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SHERBROOKE MACHINERY CO., LIMITED, SHERBROOKE, CANADA

WHALEN SULPHITE PULPS

Made from the SITKA SPRUCE of BRITISH COLUMBIA
Noted for Fibre, Color and Strength

**SNOWHITE
BLEACHED
SULPHITE**

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EASY BLEACHING
SULPHITE**

**SWAN
STRONG
SULPHITE**

As exclusive Sales Agents for all of the products of the WHALEN PULP & PAPER MILLS, LTD., in addition to stocks at the mills, we will carry large stocks of the above well-known brands in New York, thus insuring prompt deliveries.

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Pekin, China; Kobe,
Japan; Calcutta, India;
Manila, P. I.; Singapore,
S. S.

New York Trade Jottings

The National Wax and Paper Manufacturing Company, formerly located at 203 27th Street, Brooklyn, has moved its office to 140 Cedar Street, New York City.

* * *

C. P. Robinson, sales manager of The Borregaard Company, Inc., returned Monday from a western trip. Mr. Robinson reports that conditions in the west are picking up and that the feeling is decidedly optimistic.

* * *

The Ulster Tissue Mills, Inc., with offices at 45 Cedar Street and a plant at Nopanoch, Ulster County, N. Y., has assigned to Samuel C. Duberstein, of 63 Park Row. The firm was incorporated in 1916. L. L. Gilbert is President.

* * *

The Royce Paper Company formerly located at 388 Broadway, Brooklyn, has moved to larger quarters at the foot of the Williamsburg Bridge at 141 Broadway, Brooklyn. This move was made necessary by the continual increase of business handled by the company in the past two years.

* * *

H. F. Harrison, sales manager of the West Virginia Pulp and Paper Company, returned Monday from a business trip through some of the western States, bringing word that confidence reigns in that section that the next months will show a marked improvement in the paper industry.

* * *

A petition in bankruptcy was filed Monday against the Hamilton Paper Box Company, Inc., of 69 Greene Street, by these creditors—Louis Schulman, \$156; Charles W. Williams & Co., Inc., \$87; Box Board and Lining Company, \$501. It is stated that the liabilities are about \$12,000 and assets about \$3,000.

* * *

The Continental Paper and Bag Mills, 18 East 40th Street, New York, declared a quarterly dividend of one and one-half per cent. on the Common and Preferred Stock on October 26, 1921, payable November 15, 1921, to stockholders of record at the close of business on November 8, 1921.

* * *

H. H. Condit, 200 Fifth Avenue, in connection with his waxed paper products and carton accounts has recently been appointed sole selling agent in greater New York and New Jersey for the Eastern Paper Can and Tube Company, of Boston, Mass., manufacturer of plain and moisture-proof cylindrical cartons.

* * *

A protest of the Maurice O'Meara Company covering printing paper was last week sustained by the Board of United States General Appraisers. The paper was assessed at the rate of 25 per cent under Paragraph 332, while it was claimed it was entitled to free entry as provided in Paragraph 567 of the Act of 1913. As the importer proved by testimony that this paper was what is generally known as book paper, the protest is therefore sustained.

* * *

Among prominent paper men visiting New York last week are listed: Harry P. Gould, of the Gould Paper Company; Maurice Hoopes, of the Finch, Pruyn Company; C. A. Babcock, of the Wisconsin Paper Company; Percy R. Wilson, of the Spanish Pulp and Paper Mills, Ltd., Sault Saint Marie, Canada; G. B. Wardwell and E. B. Sterling, of the West End Paper Company, Carthage, N. Y.; George M. McKee and L. W. Michael, of the Donnacona Paper Company, Quebec; Louis Black, of the Crown Williamette Company, San Francisco, and A. B. Martin, president of the Pacific Mills, Ltd., San Francisco.

MAINE SUPERINTENDENTS MEET

(Continued from page 32)

residents, visited the mills of that town, Great Works and Old Town. The majority of the superintendents visited the mill of the Orono Pulp and Paper Company.

Following an excellent dinner which was served at 6.30 in Balentine Hall, entertainment was furnished by Al Johnson's student orchestra and Harry Belyea's quartet.

Sidney Osborne, a student at the University, entertained by drawing cartoons.

W. W. Cronkhite Speaks

At the evening session, W. W. Cronkhite, of Schenectady, N. Y., who is connected with the General Electric Company, gave a long and interesting lecture on Power in Pulp and Paper Mills, bringing out forcibly the part played by electrical engineers in the efficient operation of paper mills. Mr. Cronkhite illustrated his lecture with a series of stereopticon slides showing various types of electrical devices used in the paper industry. Mr. Cronkhite mentioned, in closing, the fact that many alumni of the University of Maine, who are now connected with pulp and paper mills throughout the country, are doing excellent work perfecting electrical devices used in paper plants.

F. L. Bush Speaks

F. L. Bush, representing the Coast Association, gave a short speech following Mr. Cronkhite's lengthy address in which he deplored the absence of Maine cost accountants and told in detail the work now being done by the national association in the standardizing of cost accounting. Mr. Bush emphasized the importance of efficient and accurate cost accounting, especially during the present period of depression, and urged the superintendents and the few accountants present to impress other Maine accountants with the importance of such an organization.

In formal discussion of the present industrial situation as it affects the paper industry, the consensus of opinion was that times are "looking up," and that the present depression is gradually drifting away. Most of the pulp mills have on hand at the present time an extra large supply of pulpwood, superintendents say, and consequently there will be little pulpwood cut this winter. But they believed that the usual amount will be cut next winter and that the demand will be the same.

Among Those Present

The following members of the two associations were registered: Hebron H. Hackett, of the Eastern Manufacturing Company, South Brewer; Prof. Charles A. Brautlecht and Prof. J. L. Merrill, University of Maine; G. H. Gleason, of the Nash Engineering Company, Newtonville, Mass.; Eugene Sullivan, Orono Pulp and Paper Company, Orono; J. J. Sullivan, Eastern Manufacturing Company, South Brewer; A. R. Larcher, of the Penobscot Chemical Fiber Company, Great Works; B. T. Larrabee, of the S. D. Warren Company, Cumberland Mills; W. W. Cronkhite, of the General Electric Company, Schenectady, N. Y.; F. L. Bush, of Holyoke, Mass.; L. P. Parkman, of the S. D. Warren Company, Cumberland Mills; J. A. Harlow, of the Penobscot Chemical Fiber Company, Great Works; W. V. Wentworth, Penobscot Chemical Fiber Company, Great Works; William Kane, of the Eastern Manufacturing Company, South Brewer; F. A. Sullivan, of the Orono Pulp and Paper Company, Orono; F. Kirk and Fred Shirley, of the Eastern Manufacturing Company, Lincoln; A. B. Pomeroy, R. R. Knott and J. Hobson, of the Eastern Manufacturing Company, South Brewer; P. B. Palmer, of the Orono Pulp and Paper Company, Orono; W. T. Libby, of the Dupont Company, Boston; H. H. Melcher, A. C. Cloudman and K. E. Terry, S. D. Warren Company, Cumberland Mills; E. Lucas, of the S. D. Warren Company, Gardner; K. R. Fox, of the Allan Electron Company, Portland, and William Foley, of the Nekonegan Paper Company, Old Town.



More Power

Lion Paw Belting has an extremely high coefficient of friction resulting in maximum power transmission.*

A Patent Process keeps every strand and fibre of Lion Paw *permanently pliable and lubricated*. It makes Lion Paw the most economical belting you can install—it never requires dressing.

*The proof, "Efficiency Tests on Various Types of Belts" will be sent to you on request. Write for details and a copy of our booklet "*Cutting the Unreckoned Costs*"

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To meet this requirement, artisans alone do the work, only the best materials are used and every instrument is assembled with care and tested many times for accuracy and durability.

\$41.00 F. O. B. FACTORY

That is the price of the Standard 10-inch Foxboro Recording Steam Gauge, illustrated above, finished in bright, baked, black enamel. Price varies with size, finish, and application; but it is never high considering the quality of the instrument and its worth to you.

Foxboro Recorders stand up under the hardest kind of service. They work for you 24 hours a day, 365 days a year for years to come.

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New York Chicago Tulsa San Francisco
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FOXBORO
TRADE MARK

Obituary

Charles Cohn

[FROM OUR REGULAR CORRESPONDENT.]

CHICAGO, November 1, 1921.—Charles Cohn, president of the Lanzit Corrugated Box Company, 2039 South Morgan street, died Thursday, October 27, following an operation. Mr. Cohn had been ill only a week before his death. He had been chief executive of the Lanzit company since its inception nine years ago. He is survived by his widow and a daughter. The business of the company which he headed will be operated as it has been, with no change in the official personnel at the present time, it is said. M. Gidwitz, secretary and treasurer of the company and also one of its organizers, will assume full charge until a change is made to fill the vacancy left by the late president.

John Lauricelli

John Lauricelli, senior member of the firm of J. Lauricelli & Paino Bros., and member of the Metropolitan Bag and Paper Jobbers' Assn., Inc., with offices at 220 West 14th St., died suddenly at his residence, 1784 Stillwell Avenue, Brooklyn, early Sunday morning, October 16, from heart failure, aged 63. He had been ill and confined to his home for the past three months. He is survived by a widow, two sons and one daughter. He was born in Italy and came to this country when a boy, when he started in the paper and paper bag business on the lower East Side. The business will still be continued under the same name.

George E. Dudley

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, Mass., October 31, 1921.—Word has been received in this city of the death at Dayton, Ohio, of George E. Dudley, formerly of this city. Mr. Dudley for 16 years was treasurer of the former Syms & Dudley Paper Company of this city, and at one time was paymaster for the Crocker Paper Company. When the local Syms & Dudley plant was sold another plant under the same name was built at Watervliet, Mich. Mr. Dudley was considered as one of the foremost men in the paper manufacturing industry and a keen financier.

Paper Makers Re-elect J. T. Carey as President

ALBANY, N. Y., November 1, 1921.—Jeremiah T. Carey of Albany, president of the International Brotherhood of Paper Makers for the last sixteen years, was re-elected for a two-year term, it was announced at brotherhood headquarters. Mr. Carey took a leading part in the recent strike of the brotherhood against the International Paper Company.

Other officers elected are: First vice-president, M. H. Parker, Richmond, Va.; second vice-president, Frank Barry, Albany; third vice-president, Frank McLeod, Espanola, Ont.; fourth vice-president, George J. Schneider, Appleton, Wis.; secretary, Matthew Burns, Kaukauna, Wis.; treasurer, Dominic McDermott, Bellows Falls, Vt.; auditor, Clinton Gagnon, Livermore Falls, Me.

No candidate for fifth and sixth vice-president received a majority vote, and a special election to fill these offices will be conducted between November 12 and November 28.

Two hundred and sixteen locals participated in the voting.

Buffalo Paper Stock Men Organize

[FROM OUR REGULAR CORRESPONDENT.]

BUFFALO, N. Y., Oct. 31, 1921.—Buffalo dealers in Rags and Paper stock have formed an association as a part of the Buffalo

Chamber of Commerce. The principal object of the association is to maintain a high standard of packing in rags and paper stock.

A booklet has been issued containing specifications for packing, also trade customs. This publication follows substantially the specifications and trade customs of the National Association of Waste Material Dealers, The Felt Makers' Association and the National Association of Writing Paper Manufacturers, besides providing rules to meet local conditions.

The association has also issued a circular to printers, stores, etc., asking for co-operation in the packing and handling of waste paper for the interest of all concerned.

The membership comprises the following: American Mill supply Company, Bison Waste Paper Company, Buffalo Waste Paper Company, M. Fox & Sons, Great Lakes Paper Stock Company, Nathan Kultz, Lavin & Rosenberg, S. Lichtman & Sons, The W. L. Loeser Company, Shapiro Sorenson Company, Mirza D. Short, Inc., D. Ullman Sons.

Business in Boston Less Active

[FROM OUR REGULAR CORRESPONDENT.]

BOSTON, Mass., November 3, 1921.—Trading in the Boston market took a decided slump this week—rather general in all lines. Once again the trade is "marking time," waiting for the last spurt of orders before the actual holiday season sets in.

The box business is especially quiet, prices remaining about the same, but very few orders being placed. Future business in the line, however, appears very bright.

One veteran buyer in the Hub expressed himself on the general situation as follows: "Once more we have a dull period with us—quite a change from the last of September, but this present quiet spell is a forerunner of another spurt. Things, however, will not be themselves again until some of the nation's weighty matters are decided. For instance, the settlement of the proposed railroad strike was a great load off our minds. Now if the disarmament conference is concluded amicably and the question of taxes is adjusted after the first of the year, the whole situation will take on a brighter aspect. All these things play a vital part. The business man wants to see many of these matters settled and until they are his mind will not be fully at rest."

Fine papers, including announcements, invitations and holiday material are in demand, also typewriting paper. Printers, however, are buying in small lots but more frequently.

News of the Holyoke Trade

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, Mass., October 31, 1921.—George A. Galliver, president of the American Writing Paper Company, has been elected one of the three vice-presidents of the Associated Industries of Massachusetts.

E. A. Carl, for the past four and one-half years head of the finance department of the Chemical Paper Manufacturing Company, has resigned, to take up similar work outside of the city.

John J. White, of the Whitmore Manufacturing Company, and J. B. Weis, of the Perfect Safety Paper Company, both of this city, have been appointed members of the emergency committee of this city by the Massachusetts Emergency committee.

Lawrence A. Dudley, advertising manager of the Hampshire Paper Company, of South Hadley Falls, was awarded first prize of the Direct Mail Advertising Association convention held in Springfield during the past week, for drafting the most unique program booklet.

About 75 delegates to the Direct Mail Advertising Association convention inspected the Linden and Gill divisions mills of the American Writing Paper Company here on Friday. Luncheon was served at the Nonotuck hotel and the laboratory of the company was then inspected.

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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

ALVAH MILLER, Pres. TOM T. WALLER, Vice-Pres.
NATH'L L. MILLER, Secy-Treas.

Craig-Becker Company INC.

Domestic and Foreign
Ground Wood and
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Mills at
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CREPE ABSORBO NAPKINS

Soft—pure white—perfectly absorbent
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Manufacturers of

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E d i t o r i a l

Vol. LXXIII New York, November 3, 1921 No. 18
FIFTIETH YEAR

Conference Number Next Week

The annual fall conference of the American Paper and Pulp associations and the meetings of the affiliated organizations in the pulp and paper industry as well as the fall meeting of the National Paper Trade Association are taking place in Chicago as this edition of the PAPER TRADE JOURNAL is being put to press. Because of the distance from the office of publication to the meetings it has been impossible to report the conference in this issue, but a full report will be printed in the PAPER TRADE JOURNAL next week. Owing to the fact that timely notice was had that the railroad strike, scheduled for the early part of this month, was averted, a large attendance was expected to be present in Chicago during paper week and all of the meetings promised to be of unusual importance.

Outlook for Firmer News Print

The Canadian Pulp and Paper Association has just sent an interesting statement to Mr. L. B. Palmer, manager of the American Newspaper Publishers' Association in reply to a statement regarding news print recently sent out by the chairmen of the Paper Committee of the A. N. P. A. The statement which follows in part should be carefully considered by the publishers as it may prevent them from repeating some serious mistakes in providing for their supplies of news print in the near future:

In discussing the reasonableness or otherwise of the present price of news print (other than that dependent for its cheapness on debased European exchange), Mr. E. P. Adler, chairman of the American Newspaper Publishers' Association Paper Committee, in Bulletin No. 4487, intimates that the paper manufacturers should themselves be willing to suffer whatever loss may be involved in writing off their inventories in order to conform to the current cost of raw materials and to bring news print down to the price at which, in Mr. Adler's opinion, it ought to be sold.

"It is true that some mills have on hand a large supply of high-priced wood and under contract some high-priced coal," he says. It seems to him, he adds, that "they must take their losses on those high-priced materials the same as other business institutions have had to do, in order to get back to normal."

Conceivably there might be some reason in Mr. Adler's contention if the news print manufacturers, or the great majority of them, had been permitted to conduct their business in their own way throughout the period of abnormal prices the same as the manufacturers of other commodities. Unhappily such was not the case. For the greater part of this period the price of news print in the United States and in Canada was under control—in the former country through the Federal Trade Commission and in the latter through the Government Paper Controller. In both countries price-fixing was prefaced by prolonged proceedings. In both the principal bone of contention was as to whether manufacturing costs and rate of return should be predicated upon the current cost of

investments and of raw materials or upon their actual cost at the time of purchase. It was in evidence that pulpwood had to be harvested from one to three years prior to its absorption in the manufacture of paper. It was shown that wood costs had advanced very materially since the wood under consideration had been gathered. The manufacturers contended for the right to take in their inventories at current market prices or replacement value. The newspaper publishers as strenuously opposed this view "in favor of charging them in at their actual cost. The records are filled with page after page of evidence and arguments on this point..

The publishers introduced in both proceedings numerous "expert" witnesses in support of their views. "These witnesses," says Mr. Guthrie B. Plante, the American publishers' chief counsel, in summing up in his brief, "each and all repudiated the basing of returns upon inflated values obtained through appraisals upon the basis of replacement costs in periods of war or other great financial disturbance."

Mr. W. N. Tilley, K. C., the Canadian publishers' lawyer, in his brief, summarizes the manufacturers' contention thus: "The main argument advanced in support of the replacement theory was that if effect were not given to it the manufacturers would be left with large stocks of high cost wood at a time when the selling price of paper might be falling," whereupon he proceeds to show the "absurdity," as he characterizes it, of any such claim.

The publishers' views prevailed. The manufacturers, who foresaw the time when their position would be reversed, were denied the right to protect themselves against it. They were not allowed to increase their selling price with the rise in the cost of their raw materials or to prepare for the inevitable fall in prices which they knew must follow. They find themselves with high-cost inventories on hand which the publishers now coolly say should be liquidated at the manufacturers' sole expense. Naturally the manufacturers can't see it that way. The circumstances afford an additional illustration of the folly of interfering with the laws of trade. Had the publishers been willing to allow the paper manufacturers to adjust their selling price to the rising value of their raw materials, the manufacturers would now be in a position to adjust their selling price downward, to meet the publishers' demands. They didn't do it and no blame can now be attached to the manufacturers for seeking to incorporate the actual cost of their wood in the selling price of their paper as they were forced to do when it was to the consumers' interest.

It is also pertinent to point out that in assuming to advise newspaper publishers against entering into contracts for their next year's requirements of news print in the expectation of much lower prices the American Newspaper Publishers' Association Paper Committee is taking on a grave responsibility, since it is quite possible that their advice may turn out just as disastrously for the publishers as did similar advice tendered by the Paper Committee in 1917-18. That committee, it will be recalled, began in August, 1917, to instruct the publishers not to contract for the following year's paper at the then prevailing prices, arguing that lower prices were inevitable. In November, 1917, the Committee then, as now, reported an excess of news print in sight for the next year with greatly increased production certain. In a bulletin issued November 22 of that year they urged publishers to refrain from making contracts, and on December 13, repeated the advice still more in-

sistently and predicted that the "enormous surplus" then available "will operate to make a slump market in 1918." All through the early months of 1918 this advice was repeated and repeated until the early part of June when the Committee, suddenly reversing itself, issued a bulletin telling publishers to "buy paper heavily" and to maintain a six months' reserve supply whenever possible—advice that came too late to benefit those publishers who had heeded that given during the preceding six months' period.

Publishers would do well to read their old files of American Newspaper Publishers' Association "B" bulletins and to check up the predictions made therein with their own subsequent experience in buying paper. With no desire to cast discredit upon the judgment or good faith of the Paper Committee, it is doubtful if their advice in the present instance is any more sound than that given by the Committee in 1917-18. Publishers who follow it, without looking into conditions for themselves, may have as much cause for regret as did those who followed the old committee's advice three years ago. There were numerous newspaper publishers who disregarded the advice of their committee at that time and entered upon firm contracts at the then prevailing prices, very much to their subsequent peace of mind and financial profit. It is quite possible that their experience, too, may be repeated. The indications, despite all that is said to the contrary, are for a firmer news print market in the near future.

Empire State Forest Products Ass'n To Meet

Plans are maturing for the sixteenth annual meeting of the Empire State Forest Products' Association at the Hotel Utica, Utica, N. Y., on Thursday, November 10. The forenoon will be devoted to a business meeting which will include the customary reports of officers and standing committees and the election of a president, vice-president and six directors. The president has appointed the following to constitute a nominating committee. Nominations should be sent to the chairman of this Committee: Geo. W. Sisson, Chairman, Potsdam, N. Y.; W. C. Hull, Tipper Lake, N. Y.; Dr. J. E. Campbell, Dexter, N. Y.

The present Board of Directors consist of Ernest A. Sterling, chairman, W. L. Sykes, T. J. Wilber (deceased), W. C. Hull, E. J. West and Clarence L. Fisher.

The afternoon will be given over to a program of addresses and discussions. The general topic of "Forest Fire Protection" will be presented by Mr. Howard, the Assistant Superintendent of State Forests and Ferris J. Meigs will speak on "Standing Timber Insurance." There will be an exhibit of the Fairbanks, Morse gasoline fire pump; also various charts and other material bearing on fire protection.

Professor Spring, of Cornell University, will present some original data on "How the Forest comes Back after Cutting," and Professor Nelson Brown, who has recently returned to the College of Forestry at Syracuse, will speak on "Use of Tractors in Logging" presenting data which he has collected on the subject. This will be followed by a discussion in which prominent lumbermen will participate, including Messrs. Sisson, Sykes, Jacobs and Hull. There will be an exhibition in connection with this part of the program, of tractors, trucks and trailers, together with literature bearing on this subject. By special arrangement there will be exhibited also a new type of direct connected saw mill manufactured by the Richardson Scale Company, of Passaic, N. J.

The usual banquet will come at 7 o'clock in the evening and President Ostrander will be the toastmaster. The speaker of the evening is Ellis J. Staley, Conservation Commissioner of the State

of New York, who will speak on "Regulation of Cutting on Private Lands."

A large attendance is expected, as the meeting promises to be one of unusual interest to all concerned in the forests of New York State.

Buying Paper for Government Printing Office

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., November 2.—A conflict of authority has grown up between the Public Printer and General Dawes, director of the budget, in connection with the purchase of paper and other commodities by the Government Printing Office. General Dawes a short time ago issued a circular to the Government Departments in which he asked that their purchasing officers should co-ordinate with the officials of the budget office, in the purchase of Government supplies. On the other hand, the Public Printer purchases his supplies under the direct supervision of the Joint Congressional Committee on Printing. While the Joint Committee has taken no official action in the matter, it has inserted in the resolution which was passed at its meeting on Friday for the organization of the Paper Specifications Committee, a clause calling upon the Public Printer to purchase paper "as required by Section 2 of the Printing Act approved January 12, 1895." This makes it virtually impossible for the Public Printer to purchase in conjunction with the Director of the Budget. The resolution which was passed by the Joint Committee on Friday calling for the appointment of the Paper Specifications Committee is as follows:

"Resolved, That a committee of one representative each of the Bureau of Chemistry, and the Bureau of Standards, two representatives of the Government Printing Office, of whom one shall be a paper expert, and the clerk and inspector of the Joint Committee be requested to prepare standard specifications and samples of paper which it deems suitable for the public printing and binding, having due regard for economy, and submit same, together with a proposal form and recommendations as to the standardizing, testing, and use of paper by the Government, to the Joint Committee on Printing on or before December 6, 1921, for its consideration in fixing upon standards of paper for the different descriptions of the public printing and binding for the term of six months or one year beginning March 1, 1922, as required by Section 3 of the Printing Act approved January 12, 1895."

New Members of T. A. P. P. I

New members of the Technical Association of the Pulp and Paper Industry, include the following whose applications have been approved by the Executive Committee since the last meeting:

James G. Bullard, chemist, Crocker-McElwain Company, Holyoke, Mass.

C. E. Curran, chemist, Forest Products Laboratory, Madison, Wis.

Gosta P. Genberg, chemist, Nekoosa-Edwards Paper Company, Fort Edwards, Wis.

Chester L. Higgins, engineer, Finch, Pruyn & Co., Glen Falls, N. Y.

John Kepke, Jr., sales engineer, S. K. F. Industries, New York, N. Y.

Alfred F. McCoy, chemist, Tidewater Paper Mills, Brooklyn, N. Y.

Newspapers Show Big Gain

CHICAGO, October, 31, 1921.—American newspapers have gained 100 per cent in circulation and the volume of advertising has increased proportionately within the last seven years, Stanley Claque, managing director of the Audit Bureau of Circulation, said today at the annual convention of the organization.

UTILIZATION OF OAT HULLS FOR STRAWBOARD AND PAPER PULP

By S. D. WELLS, ENGINEER IN FOREST PRODUCTS, FOREST PRODUCTS LABORATORY, MADISON, WIS.

In the preparation of oats for oat meal, rolled oats, and other cereal products it is necessary to remove the outer shell or hull. The meat or groat of the oat is then carried on to the next step, but the hull is largely a waste product, and it has only been found possible to utilize but a small part of the quantity available as roughage in prepared feeds and similar products. Large amounts have been used for fuel with rather unsatisfactory results. The tonnage of oat hulls that must be disposed of is considerable and has been estimated by persons acquainted with the situation to amount to over 1,500 tons daily. Of this amount certain mills contribute a very large portion, amounting in certain instances to over 200 tons daily. In considering means for the utilization of this material the paper industry offers a most promising outlet, especially when it is considered that the problem of collection has already been taken care of by the miller, and the Forest Products Laboratory undertook a series of paper-making studies on the material early in the year with the financial assistance of the Quaker Oats Company.

Raw Materials

The material worked on consisted of the oat hulls removed from the groat by a special milling process which has practically no grinding action. Some were obtained without any additional treatment, while a portion of the material was screened to remove dust, particles of the fine filaments from the groat, and other material obtained in the process. Screening the material is advisable on account of the food value of the fine material removed, its utter worthlessness for paper-making purposes, and the trouble occasioned in washing the cooked hulls later on in the process if much fine material is present.

Ground oat hulls were also tried, but found to be entirely unsuitable on account of the difficulty of obtaining uniform circulation of the cooking liquors during digestion and in the subsequent washing of the pulp.

Cooking Tests

Rotary autoclaves heated with burners were used in the preliminary cooks. The larger cooks, however, were made in the tumbling digester used for alkaline cooks, which has a capacity of

from 75 pounds to 100 pounds of oat hulls. The following cooking processes or liquors were used:

Lime—(60 per cent CaO—40 per cent MgO).

Lime—(over 95 per cent CaO).

Lime—sulphur.

"Sulphate"—(caustic soda and sodium sulphide).

Local Wisconsin lime was used for the first series of lime cooks, comprising cooks 1, 2, 4, 5, 6, 7, 8, 9, 10 and 11. This lime is "dolomitic" in character and contained two parts of magnesium oxide for every three parts of calcium oxide. The magnesium oxide present was believed to be inert, and a high calcium chemical lime, such as is used in causticizing and cooking rags or straw, was used for cooks 12, 13, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25 and 26. This lime tested over 98 per cent CaO and was found to be from 20 to 30 per cent more active than the Wisconsin lime.

The lime sulphur cook was suggested by the Drewsen patents and was made by using a mixture of quick lime and sulphur. The results were very unsatisfactory and the work was confined to one autoclave cook.

The sulphate process was tried in making cooks 3, 14, 17, 24 and 27, in which a total of 12 per cent of caustic soda and sodium sulphide per 100 pounds of hulls was found to be sufficient to reduce the material to a bleachable pulp. The fibers were extremely fine and short and great difficulty was experienced in washing the pulp on account of its slimy, water-holding qualities. After the alkali was washed out, however, it resembled the imported straw pulps and could be used for the same purposes.

Cook 17 was tried to determine the character of the pulp obtained under mild cooking conditions. A high yield of 55 per cent was obtained, but the pulp was unevenly cooked and unsuitable for bleaching. Difficulty was also experienced in washing. Two cooks were made in which the straw was mixed with cotton linters with the object of counteracting the extreme softness and fluffiness of cotton linters with the hard dense nature of the straw pulp. Cook 24 was made using 46 pounds of oat hulls and 31.9 pounds of second cut cotton linters, and a yield of 63 per cent was obtained.

(Continued on page 42)

TABLE I—COOKING DATA.

Cook No.	Fibrous Material Charged (B. D. W.)			Chemical Used Per 100 Lbs. Material			Volume Cooking Liquor Per 100 Lbs. Gals.	Alkali Consumed Ratio of Combined to Total %	Temperature. °C.	Maximum Steam Pressure. #/Sq. In.	Pressure Attainment Period. Minutes	Maximum Pressure Maintained. Minutes.	Yield. %
	Oat Hulls. Lbs.	Straw. Lbs.	Cotton Linters. Lbs.	Lime. Lbs.	NaOH. Lbs.	Na ₂ S. Lbs.							
3	2.4	.....	.....	.....	9.2	10.9	40	.....	160	74	120	145	25
14	75.0	.....	.....	.....	11.25	3.75	50	.....	144	44	90	300	.....
17	76.0	.....	.....	.....	8.9	2.96	50	83.5	135	31	120	300	55.3
24	46.0	.....	31.9	.....	9.0	3.0	50	81.4	135	31	105	390	63.0
27	74.0	.....	27.5	.....	9.0	3.0	30	86.7	140	38	300	1,035	58.3
2	2.35	.....	.....	16.0	{ CaO 60% } Sulphur	31.9	48.8	.....	150	54	210	210	53.6
1	2.63	.....	.....	15.0	{ MgO 40% }	.....	47.5	.....	150	54	195	240	53.7
4	2.00	.....	.....	15.0	"	.....	53.4	.....	135	31	120	135	65.7
5	2.00	.....	.....	15.0	"	.....	53.4	.....	134	29	135	120	.....
6	84.0	.....	.....	15.0	"	.....	50.0	.....	136	32	120	225	.....
7	81.5	.....	.....	15.0	"	.....	50	.....	135	31	90	315	.....
8	86.2	Ground hulls	.....	15.0	"	.....	50	.....	135	31	120	330	.....
9	79.0	.....	.....	15.0	"	.....	50	.....	136	32	90	360	.....
10	80.0	.....	.....	12.8	"	.....	50	.....	135	31	60	360	.....
11	77.5	.....	.....	10.0	"	.....	50	.....	135	31	90	420	.....
12	82.5	.....	.....	10.5	High calcium lime	.....	50	.....	135	31	60	420	.....
13	79.0	.....	.....	7.5	"	.....	50	.....	135	31	45	420	.....
15	75.3	.....	.....	12.5	"	.....	50.3	.....	136	32	70	480	.....
16	76.0	Screened hulls	.....	12.5	"	.....	50	.....	138	35	45	480	.....
18	67.4	.....	.....	12.5	"	.....	50	.....	135	31	120	480	.....
19	75.0	.....	.....	10.6	"	.....	50	.....	135	31	120	480	.....
20	47.0	.....	.....	10.6	"	.....	50	.....	135	31	120	480	.....
21	64.0	.....	.....	12.5	"	.....	50	.....	160	75	105	240	.....
22	70.0	.....	.....	12.5	"	.....	50	.....	118	12	120	144	.....
23	69.0	.....	5.0	12.5	"	.....	50	.....	135	31	120	480	.....
25	15.4	15.4	2.6	11.8	"	.....	48	.....	135	31	120	480	.....
26	78.4	.....	6.3	11.6	"	.....	50	.....	136	32	150	480	.....

Yields not determined on account of presence of considerable lime residue in pulp from blow pit. Indications point to 70 per cent as a fair average.

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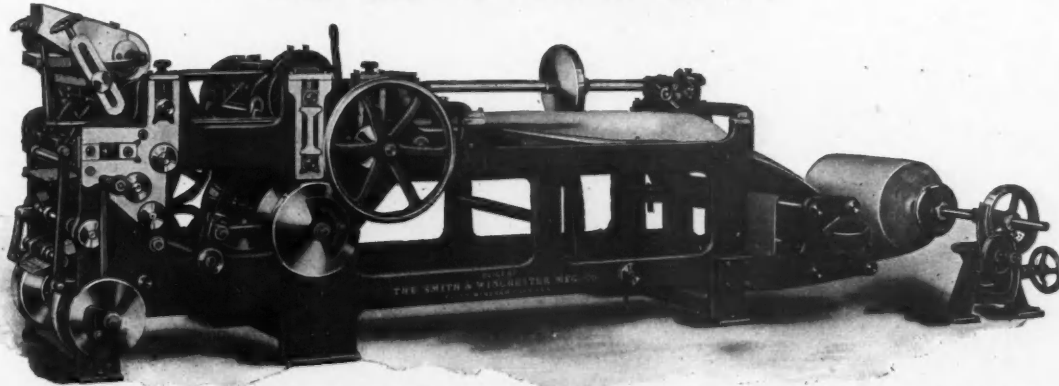
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UTILIZATION OF OAT HULLS FOR PAPER PULP

(Continued from page 40)

The grade of cotton linters used would give a yield of about 80 per cent under the cooking conditions, leaving a yield of 51 per cent for the oat hulls. Cook 27 was made using 74 pounds of oat hulls, and 27.5 pounds of cotton hull fiber obtained by the Segundo process of delinting the cotton seed. A yield of 58.3 per cent was obtained. Segundo fiber cooked under the conditions would give a yield of 75 per cent, leaving a yield of 52 per cent for the oat hulls. The products obtained bleached very readily. Eight per cent of bleaching powder was used to bleach cook 24 and 5 per cent with cook 27. The softness of the cotton fiber in the mixture made it possible to wash without difficulty, and it seems probable that an outlet for the material might be found in the manufacture of book, magazine and similar papers. The cooking conditions in greater detail are given in Table I.

Paper Making Tests

The material obtained from the various cooks was washed and beaten to what was thought to be the proper amount and then run over the combination cylinder-fourdrinier paper machine. The furnishes of the various runs are indicated in Table II. In general the lime cooks were washed one hour in the beaters and then brushed lightly for a second hour. When run over the paper machine the stock was passed through a Jordan, which gave it a stiff brushing, and by varying the degree to which the plug was screwed a considerable variation in the fineness of the stock was obtained. In the runs in which the cylinder machine was used it was found that the stock tended to settle in the bottom of the cylinder vat. This trouble was remedied, however, by placing a small shower pipe in the vat, and with a small amount of water sufficient agitation was secured to prevent settling. Cooks 6 to 22 were run over the cylinder portion of the paper machine, while cooks 23 to 26, inclusive, were run over the Fourdrinier portion. Considerable difficulty was experienced in running the sheet on account of the fact that the machine was not equipped to run straw board, and it was found necessary to add 10 per cent of sulphate or kraft pulp to the furnish to be able to run over the machine. Cooks 7, 8, 9, 10, 11, 12, 13, 15, 16 and 21 were run with 10 per cent kraft pulp. In cook 20 old newspapers were used instead of kraft and in the same proportion. The sheet, however, was unsatisfactory. In cooks 18, 19 and 22, 10 per cent raw second cut cotton linters were used with promising results, and in cooks 23, 25 and 26, 7 per cent second cut cotton linters were mixed with the hulls before cooking and given the same

treatment, with the result that the linters were hardened and a stronger sheet was obtained than with the raw linters. The appearance of the sheets obtained are indicated in Table II, in the column headed "Condition of Sheet."

Strength Tests

Strength tests on the more promising sheets obtained are given in Table III. The results obtained indicate that the greatest factor to be considered in utilizing oat hulls for board is the beater treatment. The optimum cooking conditions seem to be between 11.6 and 12.5 per cent of CaO, with a temperature of not over 136 degrees C. for at least six hours. There were numerous cooks made under these conditions, however, which were weak and unsatisfactory on account of unfavorable beater treatment.

The run made from cooks 25 and 26 showed the maximum strength. The furnish of this run when analyzed consisted of 65 per cent oat hull pulp, 25 rye straw pulp and 10 per cent cotton linter pulp. The straw blended well with the oat hulls and seemed to give results superior to what can be obtained from either alone.

Corrugating Tests

The sheets obtained in the trial runs indicated that satisfactory results could be expected in using oat hulls to replace straw, either partially or wholly, in the manufacture of straw board. Samples were corrugated by the Mid-West Box Company and the American Can Company, and while they did not possess all the stiffness of the regular stock the conditions under which they were run through the corrugating machines was not equally advantageous, and the opinion seemed to be general that it was only a matter of adjusting a few details in the manufacture of the material to give satisfactory results. Samples were also lined with sulphite paper and tried for cap stock at the Cedar Rapids plant of the Quaker Oats Company with very satisfactory results as to strength and grip on shrinking on to the tubular fiber containers.

Mill Runs

In view of the results of the laboratory runs it was decided to make a trial of oat hulls at the straw board mill of the Quaker Oats Company at Pekin, Ill., and about 30 tons were run into boards of various types during the week of June 15 to 18, 1921.

The mill is equipped with several spherical rotary boilers 14 feet
(Continued on page 44)

TABLE II—FURNISH

Cook No.	Stock from Digester			Stock Added				Condition of Beaten Stock	Condition of Sheet
	Oat Hulls, %	Rye Straw, %	Cotton Linters, %	Kraft, %	Sulphite, %	Old Paper, %	Raw Cotton Linter, %		
17	90	..	..	..	10	..	..	Slow	Shivey.
24	48	..	52	..	..	..	..	Free	Slightly shivey—good color.
27	65	..	35	..	..	..	..	Free	Slightly shivey—good color.
7	90	..	..	10	..	..	..	Coarse—full of lime	..
8	90	..	..	10	..	..	..	Very coarse	Foam marks.
9	90	..	..	10	..	..	..	Fine	Foam spots.
10	90	..	..	10	..	..	..	Medium	Foam marks—crushing.
11	90	..	..	10	..	..	..	Coarse	Foam marks—wild.
12	90	..	..	10	..	..	..	Fine	Crushing.
13	90	..	..	10	..	..	..	Fine	Slightly crushing.
15	90	..	..	10	..	..	..	Fine	Slightly crushing.
16	90	..	..	..	..	..	..	Medium	Slightly crushing.
18	90	..	..	..	..	..	10	Fine	Crushing.
19	90	..	..	..	..	..	..	Fine	Crushing.
20	90	..	..	..	..	10	..	Very coarse	Foam spots.
21	90	..	..	10	..	..	..	Coarse	Foam marks.
22	90	..	..	..	..	..	10	Very fine	Crushing.
23	92	..	8	..	..	..	..	Fine	Good formation.
25 and 26	66	25	9	Medium	Only passable formation.
26	91.5	..	8.5	Coarse	Only passable formation.



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CORDAGE

UTILIZATION OF OAT HULLS FOR PAPER PULP

(Continued from page 42)

in diameter, Hollander type beating engines with drum washers, Jordan refining engines capable of being used either in tandem or parallel, and a 68-inch four-cylinder board machine, with forty dryers fitted with a hot-air drying system.

Cooking Treatment

The hulls were given the same cooking treatment used on the straw, which was as follows:

Lime per 100 pounds bone dry hulls (testing 99 per cent CaO), 15.4 pounds.

Volume of cooking liquor at start per 100 pounds dry hulls, 24 gallons.

The rotaries were loaded in the forenoon and heated with exhaust steam, indicating 11 pounds per square inch, until 3 o'clock in the afternoon, when the exhaust steam was shut off and live steam turned on, and, by means of a regulator, a pressure at the rotaries of 21 pounds per square inch was maintained. These conditions were maintained until 6 o'clock in the morning, when the steam was shut off and the rotaries emptied as soon as space was provided for their contents some time in the forenoon.

The rotaries held a charge of 6½ tons of straw, but it was found that from 10 to 20 per cent more oat hulls could be charged, and a charge of a mixture of 6,860 pounds of air dry straw and 8,800 pounds of air dry oat hulls was charged without overloading. With straw it is necessary to rotate the boiler to pack the straw and take off the cover and recharge three or four times to make a complete charge, while with oat hulls it could all be loaded with one filling, and with oat hull straw mixtures only one refilling was necessary. Two rotaries of oat hulls, four rotaries of oat hull straw mixtures, and one rotary of 15,100 pounds of oat hulls and 1,000 pounds of second cut cotton linters air dry weight were cooked.

Washing Treatment

The cooked oat hulls and oat hull and straw mixtures were allowed to stand in a pile as long as possible, but on account of lack of time the average time in the pile was not more than 24 hours. They were then given a washing treatment of 3½ hours at the end of which period the lime residues were practically removed. During the washing the beater roll did not touch the bed plate, but, nevertheless, the stock was reduced to a considerable extent. One interesting feature was the fact that oat hull stock swells under the treatment, while with straw stock there is a decrease in volume.

Paper Machine Trials

The following runs were made on the paper machine:

1. Single manila lined strawboard: 50 per cent straw—50 per cent oat hull.
2. Double manila lined strawboard: 50 per cent straw—50 per cent oat hull.
3. Double manila lined strawboard: 100 per cent oat hull.
4. Egg case board: 100 per cent oat hull.
5. Egg case board: 50 per cent straw—50 per cent oat hull.

Run No. 1. Single Manila Lined Strawboard

In running from the straw furnish to be 50 per cent straw and 50 per cent oat hull furnish on single manila lined strawboard the only difficulty experienced was the greater ease with which the oat hull stock dried on account of the larger proportion of water removed by the presses. This change necessitated the altering of the steam pressure in the dryers, and until it was properly adjusted considerable broke was made. After running several hours it was also observed that the oat hull stock is heavier and settled to a slight extent in the cylinder vats. This trouble did not prevent the run, however, and since connections were provided in the vats for water jets it would not be difficult to equip the machine for the new stock.

On the calenders the new furnish was found to take a very satisfactory finish, and with water boxes on the calenders the appearance of the sheet was equal to the straight straw sheet usually run.

Run No. 2. Double Manila Lined Strawboard

The change from single manila lined to double manila lined strawboard, using 50 per cent straw and 50 per cent oat hull, in each case was made without any trouble or break. In the double lined board the finish obtained does not reflect the stock, since it is taken entirely by the liner, and the internal layers of straw and oat hull stock are not directly responsible. The product, however, was quite satisfactory as to finish, strength, adhesion of the layers and stiffness.

Run No. 3. Double Manila Lined Strawboard—100 Per Cent Oat Hull

In trying a furnish of 100 per cent oat hull, which followed a run of straw egg case board, trouble was experienced in adjusting
(Continued on page 46)

TABLE III—STRENGTH DATA

Cook Used No.	Furnish Pulp Used	Weight Per Ream 500 Sheets, 24" x 36" Pounds	Thick-ness, Inches	Weight Per Cubic Foot, Pounds	Mullen Test, #/ Sq. In.	Mullen Test Divided by Ream Weight	Schopper Tests								
							Breaking Length			Stretch			Folding Tests		
							In Machine Direction, Meters	Across Machine Direction, Meters	Average, Meters	In Machine Direction, %	Across Machine Direction, %	Stretch Average, %	In Machine Direction, %	Across Machine Direction, %	Average, %
17	10% sulphite	110	.0111	39.6	27.3	.249	3,020	1,550	2,285	1.5	2.2	1.8	2.8	1.8	2.3
24	"	48	.0036	54.0	17.3	.360	3,240	2,170	2,705	2.4	6.1	4.2	35.4	27.0	31.2
24	"	37	.0029	51.3	17.3	.467	4,140	2,400	3,270	2.3	3.5	2.9	57.6	25.6	41.6
7	10% kraft	108	.0100	43.2	12.3	.114	1,415	750	1,083	0.6	0.8	0.7	1.0	1.0	1.0
9	"	110	.0134	32.9	14.3	.131	1,535	854	1,195	0.9	1.2	1.1	1.8	1.0	1.4
10	"	147	.0154	38.2	17.7	.120	1,075	900	928	0.8	1.4	1.1	1.6	1.2	1.4
11	"	118	.0138	34.2	9.9	.084	808	466	637	0.9	1.0	1.0	2.4	1.6	2.0
12	"	131	.0148	35.4	11.3	.086	1,141	540	841	0.8	1.3	1.1	2.0	1.4	1.7
13	"	151	.0164	36.8	13.5	.089	1,262	610	938	1.1	1.5	1.3	1.2	1.0	1.1
15	"	117	.0144	32.5	10.0	.087	870	574	722	0.5	1.2	0.8	1.0	1.0	1.0
16	"	159	.0151	42.1	15.9	.100	902	585	744	1.0	1.5	1.2	3.6	1.2	2.4
18	10% linters	110	.0103	42.7	9.8	.090	588	598	593	1.1	1.2	1.2	1.0	1.0	1.0
19	"	119	.0119	40.0	11.4	.096	850	492	671	0.9	0.9	0.9	2.0	1.4	1.7
21	10% kraft	114	.0120	38.0	10.1	.089	1,085	472	779	0.8	1.1	1.0	1.6	1.0	1.3
22	10% linters	159	.0138	46.0	15.5	.083	1,010	568	789	1.0	1.0	1.0	3.0	1.6	2.3
23	"	118	.0145	32.6	14.8	.125	1,335	782	1,058	1.2	1.4	1.3	2.4	2.0	2.2
25 & 26	"	82	.0099	33.2	12.7	.155	1,535	960	1,250	1.7	2.1	1.9	2.0	1.4	1.7
26	"	135	.0144	37.5	11.9	.088	920	660	790	1.0	1.1	1.1	1.0	1.0	1.0
27	"	40	.0040	39.7	11.5	.284	2,440	1,370	1,905	2.4	2.2	2.3	11.6	4.0	7.8

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UTILIZATION OF OAT HULLS FOR PAPER PULP

(Continued from page 44)

the machine, and by the time the sheet was running satisfactorily crushing occurred and the run was abandoned. The crushing was caused by the liner being too slow for stock, such as oat hull, which gives up its water readily on the presses. Unfortunately, during the night a considerable proportion of parchmized paper scrap was used in the furnish of the liner which caused it to be slower than customary. Portions of the scrap also failed to be reduced in the beaters which caused spots in the sheet. While it was not possible with the amount of stock prepared to make paper to fill orders very satisfactory, samples were obtained which are attached at the end of this report.

Run No. 4. Egg Case—100 Per Cent Oat Hull

In run No. 4, egg case strawboard was made out of oat hull stock with certain proportions of cotton linter stock which could not be determined. Only 6½ per cent was used in the rotary charge and a large proportion of the linters from the rotary was mixed with other rotary charges, so it is doubtful whether there was more than 4 per cent of linter fiber in the furnish. The same trouble experienced in run No. 1, on account of over-drying, was met, and after the dryers were adjusted it was found that running at the rate of 23 tons per day, 7 pounds of steam was sufficient without using any hot air. A larger proportion of the moisture is pressed out of the oat hull stock by the presses than from straw, and the capacity of a given set of dryers would be from ten to twenty per cent greater, an important consideration for mills with insufficient dryer capacity.

Run No. 5. Egg Case—50 Per Cent Hull, 50 Per Cent Straw

There was no trouble in running on to a 50 per cent straw furnish and the board obtained, as would be expected, showed less of the oat hull characteristics and more of the straw.

Mullen weight and thickness tests are given in Table IV. Run No. 1 was water finished and a very dense sheet was obtained with a relatively high pop test. Run No. 2 also gave a high pop test, but run No. 3 was decidedly weaker.

The egg case board run No. 4, in which 100 per cent oat hulls were used, is also much weaker than run No. 5, where equal parts of oat hulls and straw were used. The weight of the papers per cubic foot indicates that oat hull papers can be compressed by calendering and weigh about the same as the straight strawboard.

Summary

The results of the semi-commercial and mill runs on oat hulls indicate that they are capable of utilization in the manufacture of board, using digestion with lime in the same manner that straw is treated. The yields obtained and character of the stock indicate that the cost of converting oat hulls to board would not exceed the cost of converting straw, and in the yard and rotary room labor savings of approximately 50 cents per ton of product are possible. Savings in steam required for drying are also possible. The bursting strength of sheets made from oat hulls is not as high as from strawboard, but very satisfactory results may be secured, using oat hulls mixed with straw in equal proportions, and tougher sheets than are possible from either oat hulls or straw are obtained by cooking small amount of cotton linters together with the hulls in the rotaries. Raw cotton linters are a very cheap source of fiber and grades not satisfactory for fine papers on account of dirt, although possessing excellent fiber, are entirely satisfactory and can be obtained at between \$10 and \$15 per ton, f. o. b. oil mills in the South. The possibilities of using even larger proportions of linters in the manufacture of other grades of papers than were used in the lime cooks of these experiments warrant investigation, and in the opinion of the president of a large board manufacturing organization, who wit-

nessed the mill trials, seem capable of considerable application.

The facility with which straw was replaced by oat hulls in the trials herein described would indicate that paper and board manufacturers using straw as a raw material could readily try out oat hulls in their plants under their particular conditions and ascertain the feasibility of the material for their particular product.

The runs on mixtures of oat hulls mixed with either cotton linters or cotton hull fiber using the sulphate process are very interesting and the excellent color of the pulps together with the high yields indicate that a promising source of pulp for the manufacture of book, high grade magazine, common writing and similar grades might be developed. The experiments indicate that a mill fitted with rotary boilers and washing and bleaching equipment could handle the stock and it is recommended that mill trials be arranged if possible.

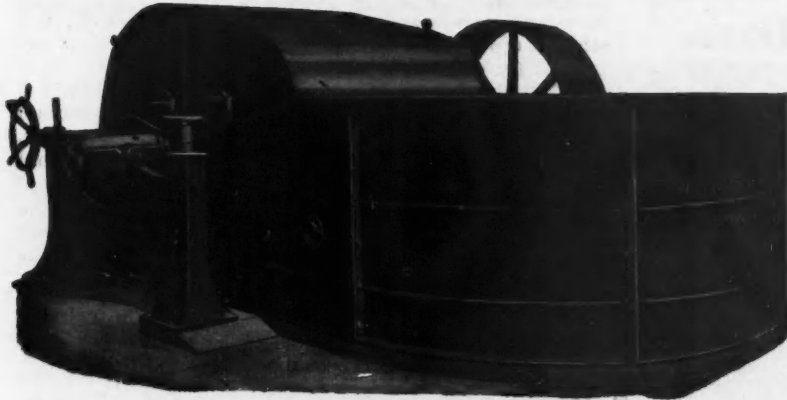
TABLE IV

Run No.	Furnish		Product	Calendered	Wgt. Per Ream 500 Sheets, 24x36	Thickness	Mullen Test		Tearing Test or Toughness			
	Oat Hulls %	Straw %					On Sheet	Per Lb. Per Ream	In Machine Direction	Across Machine Direction	Average	
1....	50	50	Single Manila lined	Yes	316	.024	52.5	71.4	.226	...	...	...
2....	50	50	Double Manila lined	Yes	358	.033	43.6	76.4	.214	...	...	...
3....	100	...	Double Manila lined	No	316	.037	34.0	51.0	.161	...	...	...
4....	100	...	Egg case	Yes	400	.035	45.7	46.4	.116	800	422	611
	100	...	Egg case	No	405	.039	42.1	46.2	.114	...	...	...
5....	50	50	Egg case	Yes	374	.031	48.5	67.2	.180	896	519	707
Stock	...	100	Egg case	Yes	282	.026	44.2	71.2	.253	848	528	688

The costs for making one ton of bleached pulp would appear to be as follows:

2220 pounds oat hulls at \$6.00 per ton.....	\$6.66
1110 " cotton linters at \$20.00 per ton.....	11.10
530 " soda ash at \$1.75 per hundred.....	9.28
280 " quick lime at \$10.00 per ton.....	1.40
165 " sulphur at \$20.00 per ton.....	1.65
100 " bleaching powder at \$2.50 per hundred.....	2.50
1 ton coal at \$5.00 per ton.....	5.00
Labor based on unskilled labor at \$3.00 per 8 hr. day.....	7.50
Conversion	2.00
Overhead	2.50
Total	\$49.59

These costs are based on the cost of a 30 ton plant which is capable of turning out bleached pulp in sheets of approximately 80 per cent moisture content with no recovery of the soda, being about \$300,000. Bleached soda pulp, which the pulp in question could replace, is quoted at present at \$90 per ton, and with mounting wood costs, it seems doubtful whether it can ever be manufactured by present pulp mills for less than \$70 per ton. Most of the work of the experiments described herein was devoted to the utilization of oat hulls by the strawboard industry since it was believed that it could be utilized there with the least change from present customs and habits. The promising margin of profit, however, allowed by the estimates of the cost of manufacturing bleached pulps from oat hulls and cotton linters by the sulphate process makes the desirability of mill trials particularly strong.



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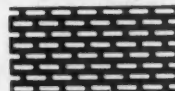
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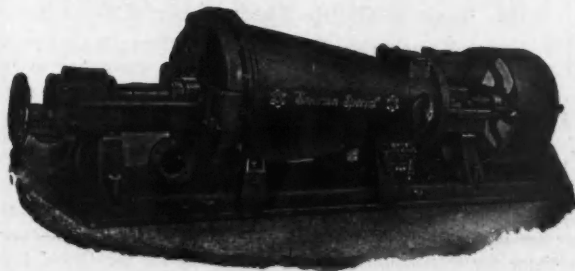
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TROJAN BAG AND PAPER COMPANY, Troy, New York, capital \$20,000; incorporators, B. and N. and D. Jaffe; attorney, J. F. Brearton, Troy.

YONKERS SUPPLY COMPANY, Yonkers, New York, paper and hardware, capital \$5,000; incorporators, M. and B. Fishman, J. Mackler; attorney, A. B. Albert, 305 Broadway.

PUL-FLAP ENVELOPE COMPANY, Delaware, mailing devices, capital, \$90,000; attorney, Corporation Guarantee and Trust Company, Philadelphia.

PAPER TRADING CORPORATION, Manhattan, New York, make paper, capital, \$50,000; incorporators, B. Harwood, Jr., P. Schmer; attorney, M. A. Vogel, 291 Broadway.

AMERICAN BLUE PRINT & SUPPLY COMPANY, INC., 601 Mattison avenue, Asbury Park, New Jersey; deal in blue prints; capital, \$125,000.

GEORGE PAPER CORPORATION, Albany, New York; capital \$20,000; incorporators W. G., L. A. and F. G. George; attorneys, Tracy, Cooper, Savage & Townsend, Albany.

CAPITAL INCREASE

PHOENIX PAPER COMPANY, Battenville, Washington County, New York; \$50,000 to \$150,000.

To Buy Paper Co-Operatively

[FROM OUR REGULAR CORRESPONDENT.]

CLEVELAND, Ohio, October 17, 1921.—The Mutual Paper Company, 1220 West 6th street, has sent the following invitation to representative concerns in Cleveland:

"You are invited to join us at the first meeting and smoker of the above new organization at the Hotel Statler on Monday, November 8, at 7:30 P. M.

"You have been selected as one of Cleveland's Class 'A' concerns, whom we are going to extend the opportunity of buying their paper needs, collectively and as an interested owner of a paper jobbing house.

"The Cleveland Chamber of Commerce has been working on an idea whereby our manufacturers and large buyers could get their raw material from its original source and so reduce the cost of their various products.

"There will be no additional capital required unless the 'buying members' want us to carry a larger stock here.

"The greater part of our orders will be bunched to obtain direct mill shipments thus obviating a 20 per cent overhead and handling cost. We are going to be instrumental in saving our manufacturers thousands of dollars in cost of Paper and will supply the kinds best adapted to their requirements.

"This is an opportunity whereby you can save 10 per cent to 20 per cent on your paper purchases.

"If you cannot attend and want us to keep in touch with you, we shall do so providing you communicate with our office.

"Associated with us will be Cleveland's Leaders of Industry and we want you to help us launch this new enterprise."

Retires From Union Paper and Twine Co.

[FROM OUR REGULAR CORRESPONDENT.]

CLEVELAND, Ohio, November 1, 1921.—M. E. Battles on October 25, formally retired as Treasurer and General Manager of The Union Paper and Twine Company. His change to private life will be a very distinct source of regret to his many friends and acquaintances in the paper business. He will, however, retain his position as one of the directors of the company.

Mr. Battles started The Union Paper and Twine Company in Cleveland in 1891, having at that time associated with him Mr.

R. Roesch, now vice-president, and Mr. Wm. Richards, now secretary of the company, and to the initiative of these three men was due the prosperity enjoyed from its inception.

In 1905 the Company became affiliated with The Chatfield & Woods Company, of Cincinnati, and at that time C. N. Bicknell became vice-president, in charge of the fine paper department. Mr. Bicknell now succeeds Mr. Battles as treasurer and general manager.

The growth of the company has been very steady, from a small house selling only wrapping paper to one of its present size distributing all classes of printing, writing, wrapping, and other papers.

In 1912 the Company's large warehouse on St. Clair Avenue burned, and the present warehouse at Canal Road was acquired immediately after. This warehouse now contains not only the wrapping paper stock but also the manufacturing and converting departments of the company.

In 1920 the present offices and fine paper warehouse at 116-128 St. Clair Avenue was completed.

For many years the Company has been very closely connected with The Union Paper and Twine Company in Detroit, and has also maintained sales offices in Akron and other surrounding cities. At the present time a warehouse is being opened in Buffalo, and a very rapid development of business is expected there.

The officers and directors of the Company at the present time are: W. H. Chatfield, president; R. Roesch, vice-president; W. M. Richards, secretary; C. N. Bicknell, treasurer and general manager; M. E. Battles, D. C. Wisner, H. F. Woods, directors.

Ogdensburg Paper Mills Closed

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., October 31, 1921.—The Continental ground-wood pulp mill at Ogdensburg, which is owned by the Ogdensburg Paper Mills, Inc., of which James A. Outterson and Frank A. Augsburg are the owners, has been closed and operations suspended until a more favorable time. Over 40 men are thrown out of work for an indefinite period, only construction workmen being kept on the job.

The Continental mill represents an investment of \$375,000 and was placed in operation only a few months ago. The cause of the shut down is given as unsurmountable competition brought about by high freight rates and low prices on the imported pulp. It is explained by the owners that pulp is being shipped into New York from Norway and Sweden at a cost of \$21 on the docks while it costs \$27 a ton to make it at Ogdensburg. The freight rate from Ogdensburg to Carthage is \$12 a car load. This tells the story of the closing of the mill. This despite the low cost of wood which is brought in from Canada by boat.

The owners express a hope that some time in the future the rate of transportation may be adjusted and that the competition with foreign lands may be met with a tariff which will give the industry in America a fair chance.

A. E. Tyner & Co. to Handle Grand Lake Line

ST. LOUIS, Mo., October 31, 1921.—A. E. Tyner & Co., corner Main and Cedar streets, have just taken over the selling agency for the line of paper bags of the Grand Lake Co. for the states of Missouri, Kansas, Arkansas, Mississippi, Louisiana, Oklahoma, Texas, Nebraska, Colorado, New Mexico, Arizona, Wyoming, Idaho and Southern Illinois. A. E. Tyner, of the company was formerly connected with the Richard S. Hoffman Company of Baldwinsville, N. Y., as salesmanager, and the company at the present time is acting as their sales representative for the same territory for this concern that it is covering for the Grand Lake Company.



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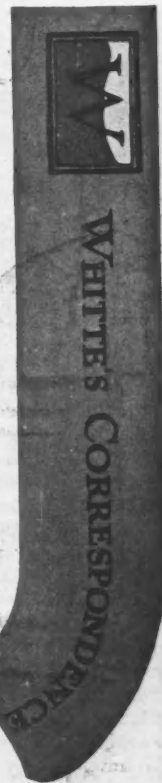
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Abstracts of Articles and Notes of Papermaking Inventions Compiled by the Committee on Abstracts of Literature of the Technical Association of the Pulp and Paper Industry

Japanese Pulp and Paper Industry.—*Pulp and Paper*, xix, 267-9 (March 10, 1921).—An analysis of the status of the Japanese pulp and paper industry and of some of the contemplated developments, more particularly of greater utilization of the forest resources of Manchuria and Korea.—A. P.-C.

Research Department for Paper Industry.—*Pulp and Paper*, xix, 127-30 (Feb. 3, 1921); 159-62 (Feb. 10, 1921).—Text of the report of the Joint Committee (Col. C. H. L. Jones, Spanish River Pulp and Paper Mills, chairman) appointed by the Canadian Pulp and Paper Association and the Technical Section of the C. P. & P. A. to investigate possibilities respecting the institution of a department of technical research within the activities of the C. P. & P. A., of the ensuing discussion and of the address of Dr. R. F. Rutman on the co-operation of the Research Institute with the pulp and paper industry. Both the Technical Section and the C. P. & P. A. approved of an immediate start being made with the industrial research department, without attempting to build a central research laboratory at once, the main work to begin consisting in the co-ordination of the research work being carried on in the various mills.—A. P.-C.

Transactions of the Technical Section of the C. P. & P. A.—*Pulp and Paper*, xix, 73-82 (Jan. 20, 1921); 127-30 (Feb. 3, 1921); 159-62 (Feb. 10, 1921); 189-91 (Feb. 17, 1921); 217-9 (Feb. 24, 1921); 245-6 (March 3, 1921); 271-4 (March 10, 1921); 299-300 (March 17, 1921); 323-4 (March 24, 1921); 347-9 (March 31, 1921); 375-7 (April 7, 1921).—Texts of the reports of the committees on mechanical standards, chemical standards, education, testing moisture in pulp, abstracts and publications, technical research; together with discussion of reports, of the revision of membership qualifications so as to admit superintendents and practical men as full members, and of the following papers presented at the convention: "Insurance of Pulpwood" (*Pulp and Paper*, xix, 323-4, March 24, 1921); "Protection of Log Piles by Artificial Fog" (*Pulp and Paper*, xix, 5-7, Jan. 6, 1921; 37-9, Jan. 13, 1921); "Speed Inter-Lock as Applied to Paper Machine Drives" (*Pulp and Paper*, xix, 59-64, Jan. 20, 1921); "The Ventilation of Paper Machine Rooms" (*Pulp and Paper*, xix, 183-8, Feb. 17, 1921); "Strength Testing of Sulphate Pulp" (*Pulp and Paper*, xix, 68-72, Jan. 2, 1921); and also paper presented by I. L. Gartland on "The Microscope and Its Relation to the Pulp and Paper Mill" (*Pulp and Paper*, xix, 347-9, March 31, 1921; 375-7, April 7, 1921).—A. P.-C.

Use of Microscope in Pulp and Paper Mill.—I. L. Gartland *Paper*, xxvii, 26 (March 2, 1921); *Pulp and Paper*, xix (March 31 and April 7, 1921).—General description of the construction and uses of the compound microscope (lenses, accessories, types of instruments, etc.), followed by a few comments by H. N. Lee, Hamermill Paper Company, Erie, Pa., on specific uses of the microscope in the pulp and paper industry.—A. P.-C.

Water Purification by Continuous Blow-off.—G. Paris. *Chimie et Industrie*, iv, (December, 1920); *Pulp and Paper*, xix, (April 7, 1921).—Description of the continuous blow-off method of boiler water purification and of its merits and advantages over other processes. The method consists essentially in allowing a certain proportion of the water in the boiler to blow off into a steam separator. The separated steam is made to bubble up through the raw make-up water which has been mixed with sufficient soda ash to precipitate the non-carbonate-incrusting solids in the water, while the separated blow-off water travels slowly enough to allow the sludge to settle out, and then mixes with the raw water which also travels slowly enough to allow the precipitated incrusting

solids to separate out. The principal advantages are low consumption of purifying chemical, high temperature for the feed water, and small and compact equipment which can easily be made practically self-regulating.—A. P.-C.

Papers Used in China.—J. W. Ross, Canadian Trade Commissioner. *Paper*, xxviii, 3 (March 23, 1921).—Brief description of the various kinds of papers required by the Chinese trade.—A. P.-C.

Calcium Analysis of Fresh Sulphite Liquors.—Rudolph Sieber, *Zellstoffchemische Abhandlungen*, i, 7 (June 15, 1920); *Paper*, xxviii, 3 (March 23, 1921).—Translation by Clarence Jay West. The results of a comparative investigation of the well-known methods of analysis of the sulphite liquor and the Sander's method as used by Dieckman are given. Sander's method is briefly as follows: The original solution is diluted tenfold and 10 Cc of the diluted solution are titrated in the usual manner with tenth normal iodine and starch to a blue color; then 5 Cc of 3 per cent potassium iodate (KIO₃) solution (an excess must be present) is added, and the iodine which is liberated is titrated with tenth normal thiosulphate solution. The method has proven entirely suitable for practical use and will give correct values for the lime content of the liquors. It appears to be independent of those factors which influence the results obtained by Winkler's and Hohn's methods, and it is believed the method will prove suitable for general introduction in the industry.—A. P.-C.

Phragmites Reed for Pulp.—*Cellulosechemie*, i, 7 (November 12, 1920), 8 (Dec. 10, 1920), 9 (Dec. 24, 1920); *Paper*, xxviii, 1 (March 9, 1921), 2 (March 16, 1921), 3 (March 23, 1921).—Abridged translation by Clarence Jay West. Detailed report of a complete laboratory scale and semi-commercial scale study of the use of reed for the manufacture of paper pulp. The soda process of cooking was used, and the pulp could be bleached to a good white; but the process is as yet too complicated for practical purposes. Handmade sheets prepared from the pulp indicated a satisfactory strength. Further investigations are under way relating to the botanical properties and it is hoped to systematically solve the many problems which have arisen during the course of the present work.—A. P.-C.

Estimation of Cellulose in Wood.—*J. Ind. & Eng. Chem.*, xiii (April, 1921).—Johnson asserts that Dore's statement to the effect that "all processes involving preliminary hydrolysis result in a diminished yield of cellulose as well as total cellulose processes" (*J. Ind. & Eng. Chem.*, xii, 264, 1920), and Mahood's statement to the effect that "the modification of the Cross and Bevan method proposed by Johnson and Hovey appears to be of doubtful value since the cellulose, as well as the hemicelluloses and furfural-yielding constituents, are attacked" (*J. Ind. & Eng. Chem.*, xii, 873, 1920), are not backed by convincing experimental data, are based upon insufficient analytical data and upon statements which are misleading and partly incorrect. Mahood retorts that "Johnson offers no new experimental data in support of this rather sweeping statement," and proceeds to prove that his results and conclusions are in agreement with those of most other investigators with the exception of Sieber and Walter and of Johnson and Hovey. Dore maintains his original contention that "all processes (for the determination of cellulose in woods) involving preliminary hydrolysis result in a diminished yield of alpha-cellulose as well as total cellulose," that the total cellulose and alpha-cellulose are destroyed in the same proportion, that at most only a trifling reduction in furfural yield of the cellulose obtained is accomplished by the

(Continued on page 52)

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(Continued from page 50)

Johnson and Hovey method, and that the method is unsuitable for scientific investigations on the chemical nature of woods or other cellulosic materials.—A. P.-C.

Wood Pulp Manufacture in Sweden.—L. Pierron, *Rev. Chim. Ind.*, xxix (Oct., 1920); *Papier*, xxiv (Feb., 1921).—Brief review of the production of sulfite, sulfate, and mechanical woodpulp in Sweden, and of the utilization of sulfite waste liquors for the production of binders, adhesives, tanning extracts, ethyl alcohol, fuel, cattle food, fertilizers, dyes and mordants.—A. P.-C.

Responsibility for High News Print Prices.—W. J. Pape, president of the Publishers' Buying Corporation, *Paper*, xxviii, 3 (March 23, 1921).—Analysis of the causes which made the price of news print go so high in 1919 and 1920, showing that production was greater than it had ever been before, that manufacturers were doing all in their power to turn out as much paper as they could, and that the excessive prices were due to panic, speculation and hoarding on the part of the news print consumers.—A. P.-C.

Tarred Roofing Paper.—A. Lambrette, *Papeterie*, xliii (March 10, 1921).—Brief description of the equipment and process used industrially.—A. P.-C.

Ball Bearings in Paper Machines.—*Papeterie*, xliii (March 10, 1921).—Brief outline of the advantages of using ball bearings on paper machines.—A. P.-C.

Hypochlorite Solutions by Electrolysis.—Fr. patent No. 505,874, Pestalozza, Nov. 8, 1919. *L'Industrie Chimique*, viii, 59 (Feb., 1921).—The conditions under which the electrolysis is conducted (circulation, temperature, concentration) are such that the products which are set free at the anode and at the cathode combine to form hypochlorites. The apparatus in which the electrolysis is carried out is divided into several cells by means of graphite plates arranged transversely which constitute the electrodes. Each of these electrodes acts on one side as an anode and cathode respectively. The cells communicate by means of openings in the graphite electrodes. The electrolyte is thus forced to follow a zig-zag path through the cells and issues as a hypochlorite solution.—A. P.-C.

Manufacture of Sodium Hypochlorite Solutions.—Fr. patent No. 509,666, Société L'Air Liquide, April 19, 1919. *L'Industrie Chimique*, viii, 59 (Feb., 1921).—The chlorine and the caustic soda which come from electrolytic cells are recombined to form hypochlorite. The liquor can very easily be cooled to prevent the formation of chlorates. To obtain a perfectly stable product in which the soda has been perfectly neutralized by the chlorine, a constant proportion of the chlorine formed, say 1/15, must be continually removed.—A. P.-C.

Use for Sulphite Waste Liquor.—Fr. patent No. 505,264, Strehlenert, April 17, 1917. *L'Industrie Chimique*, viii, 26 (Jan., 1921).—According to U. S. patent No. 1,149,420 the SO₂ of the waste liquor is converted into SO₃, and the calcium lignosulfonate is decomposed and precipitated by introducing air into the receptacle to raise the pressure and insure oxidation. In certain cases there is but very little free SO₂, and for the manufacture of alcohol it is necessary to add 0.1 to 0.5 per cent of sulfuric acid. This patent covers a special manner of adding this acid. When the digester is relieved to lower the pressure, the relieved gases, which are acid, are led into an autoclave used for the decomposition of the waste liquor at a pressure of one atmosphere. The liquor is then heated, and the pressure rapidly rises above the boiling pressure at the prevailing temperature. At about 200° Cent. the SO₂ is immediately transformed into SO₃, and free sulphur is deposited. Sulphurous acid does not act alone to decompose the calcium lignosulfonate; for formic and acetic acids, and other

organic compounds present in the gases also take part in the reaction. Atmospheric oxygen, or other oxidizing agent, may be introduced if it is desired to obtain a stronger acid mixture.—A. P.-C.

Nitrocellulose from Baobab.—Fr. patent No. 594,614. Thomson, Severn and Twycross, April 2, 1918. *L'Industrie Chimique*, vii, 361 (Oct. 1920).—Baobab wood possesses the same properties as cotton for the purpose of nitration, for it is composed of almost pure cellulose and is highly fibrous. The fibers when examined under the microscope are quite similar to those of cotton and behave similarly when nitrated.—A. P.-C.

Cellulose Acetates.—Fr. patent No. 505,608, J. O. Zdanowitch, October 31, 1919. *L'Industrie Chimique*, vii, 398 (Nov., 1920). Same as Br. patent No. 139,232, September 18, 1919; U. S. Patent No. 1,347,891, July 27, 1920.—A. P.-C.

Deacidification of Sulphite Waste Liquors.—Fr. patent No. 506,234, B. Gratz, November 18, 1919. *L'Industrie Chimique*, vii, 400 (November, 1920). Same as Br. patent No. 150,571, November 26, 1919. See Pulp and Paper, xix, 42 (Jan. 15, 1921).—A. P.-C.

Reinforced, Waterproof and Translucent Paper.—Fr. patent No. 513,139, Marie Louis Paul Neulette-Delorme (Seine), France. *Monit. Papeterie*, lii, 129 (March 1, 1921).—The paper is reinforced by means of a more or less closely woven fabric or suitable material (vegetable or otherwise), or by means of a wire gauze, which is incorporated into the pulp during its transformation into paper before it goes through the presses. It is rendered waterproof and transparent by sizing with rosin, linseed oil, manganese resinate, and spirits of turpentine (in the proportions of 100 parts to 80, to 15, to 25, respectively). This sizing process may also be used with non-reinforced papers.—A. F.-C.

Corrugated Cardboard.—Fr. patent No. 509,319, W. C. Diske, England. *Monit. Papeterie*, lii, 100-1 (Feb. 15, 1921). Same as Br. patent No. 145,854, June 29, 1920.—A. P.-C.

Eliminating Bad Odors from Soda Pulp Mills.—Fr. patent No. 506,629, Erik Sixten Sandberg and Gumar Sundblad, Sweden, November 26, 1919. *Papeterie*, xliiii, 109-10 (Feb. 10, 1921).—Malodorous substances in soda pulp mills are formed in the following manners: (1) In the digesters during cooking, whence they escape with the vapors from time to time; (2) during evaporation of the liquor, the CO₂ and SO₂ contained in the hot gases of combustion reacting with the liquor to form various malodorous substances, mainly hydrogen sulphide and methyl mercaptan; (3) when treating the condensates obtained from (1) and (2) and when purifying the by-products obtained from the condensates. According to the present invention these substances are all collected in the one place and burned either in the recovery or the smelting furnace as follows: (a) malodorous substances formed as indicated under (1) and (3) are introduced into the smelting furnace mixed with the air that is supplied to the furnace; (b) the production of the malodorous substances formed as indicated under (2) is prevented as far as possible by concentrating the liquor in indirectly heated evaporators (i. e., without direct contact of the hot gases with the liquor) as far as possible, and then introducing the concentrated liquors directly into the furnace to finish the evaporation and burn the residue. This makes it possible to maintain a higher temperature in the furnace, which in turn makes it possible to burn the malodorous substances. As the gases coming from the digesters, difusers, evaporators, etc., contain a large amount of water vapor, which makes them very difficult to burn, they are first passed through a condenser which condenses a large part of the water vapor,

(Continued on page 54)

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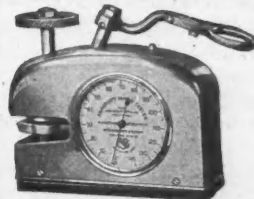
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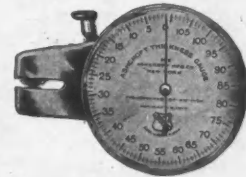


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CURRENT PAPER TRADE LITERATURE

(Continued from page 52)

and the remaining gases are then washed thoroughly with cold water, and the malodorous substances are condensed.—A. P.-C.

Improvement in Manufacture of Bleaching Powder.—Fr. patent No. 488,594, Castner-Kellner Alkali Co., Ltd., and J. W. Moore, January 24, 1918. *L'Industrie Chimique* vii, 88 (March, 1919).—Slaked lime is treated with chlorine gas in a long slightly inclined cylindrical chamber, which is given a rotary motion. The inside of the reaction chamber is provided with bars which serve to raise the powdered lime and allow it to fall through the chlorine-laden atmosphere, so that the contact of the powder with the gas is much more thorough. The counter-current principle of absorption is utilized, and the chlorine is prevented from going through too rapidly by the inclination of the chamber. The chlorine is kept under a slight vacuum to prevent escape through the leaks which are almost sure to be present.—A. P.-C.

Manufacture of Insulating Plastic Composition.—Fr. patent No. 501,038, Motta, Riga and Villain, March 31, 1920. *Technique Moderne*, xii, 544 (Dec., 1920); *Papeterie*, xliii, 113 (Feb. 10, 1921).—Composition obtained by mixing a given quantity of unsized paper pulp with an equal weight of a mixture of equal volumes of calcium carbonate and magnesium silicate; or else by applying the carbonate and silicate to a suitable elastic base such as paper, cardboard, etc., instead of incorporating them into the mass of the pulp.—A. P.-C.

Extensible Wrapping Paper.—Fr. patent No. 508,293, Ariell Safety Bag Co., U. S. A., Jan. 10, 1920. *Papeterie*, xliii, 160-2 (Feb. 25, 1921).—The paper is made from one or more thicknesses of paper, creped in two directions and glued together with some waterproofing adhesive substance, such as asphalt, which remains soft and pliable.—A. P.-C.

Instrument for Testing Tearing Resistance of Paper.—Fr. patent No. 509,276, Sidney D. Wells and Robert J. Marx, England, Aug. 12, 1920. *Papier*, xxiv, 66-7 (Feb., 1921); also *Papeterie*, xliii, 110 (Feb. 10, 1921).—The patent covers a device for measuring the resistance of paper to continuation of a tear that has already been started. The paper is firmly clamped in a suitable device and is pressed down against a dulled blade which has a sharp projecting point to start the tear. The blade is rigidly connected to a spring, and the pressure is transmitted to a suitable indicating or registering device.—A. P.-C.

Tray for Spindles for Spinning Paper.—Fr. patent No. 509,854, Fernand Jean Pierre Stoffel (Seine), France, Aug. 26, 1920. *Papier*, xxix, 68-9 (Feb., 1921).—A. P.-C.

Isolating the Fibers of Seaweed ("Sugamo," Phyllospadix Scouleri Hook). Fr. patent No. 510,373 Yohachiro Hashimoto, Japan, Sept. 4, 1920. *Papier*, xxiv, 69 (Feb., 1921).—The "sugamo" is harvested, dried if necessary, cut into pieces of suitable length, boiled for half to one hour in a 10 per cent milk of lime (keeping it completely immersed by suitable means), removing from the lime, washed, and boiled for 20 to 50 minutes in a 1° Bé sodium bisulphite solution. This treatment softens the peel, which can then be very easily separated from the fibrous portions of the stalk.—A. P.-C.

Machine for Dehydrating Paper Pulp.—Fr. patent No. 511,007, Jacob Lengenbager, Austria, Sept. 17, 1921. *Papier*, xxiv, 69-72 (Feb., 1921); *Monit. Papeterie*, lii, 130 (March 1, 1921).—A. P.-C.

Extraction of Fibrous Material from Plants.—Fr. patent No. 504,036, J. Boudon, France, March 31, 1920. *Chimie et Industrie*, vi, 206 (Feb., 1921).—The material is treated with caustic soda in its nascent state (produced by means of carbonate of soda and lime, electrolysis, etc.). The action is quicker than with ordinary caustic soda, the consumption of soda is reduced by 30 per cent, the strength of the cellulose is not impaired, and the loss of cellu-

lose is reduced 20 per cent. The treatment of the plants varies with their nature and moisture content.—A. P.-C.

Process for Sizing Paper.—Fr. patent No. 512,124, Rudolf Lender, Germany. *Monit. Papeterie*, lii, 129-30 (March 1, 1921).—Artificial resins obtained by the polymerization of coumarone (C₉H₆O) and of indene (C₉H₈) are mixed with various saponifiable resins, such as colophony rosin, etc., or with various saponifiable vegetable, animal, or mineral oils or fats and are then emulsified with alkalis, ammonia, or potassium silicate solution, the proportion of alkali determining the consistency of the resulting soap.—A. P.-C.

Screen for Rag Stock.—Fr. patent No. 511,518, Joseph Henry Charvet (Isere), France, *Papeterie*, xliii, 210-3 (March 10, 1921).—The unbeaten half-stuff at a consistence of 0.2 per cent is sent through suitably arranged blades or rods which stop the longer fibers, but allow the shorter ones to go through along with any dirt or impurities. These shorter fibers are then screened through one of the usual screens, thus eliminating the impurities.—A. P.-C.

Improved Beater.—Fr. patent No. 512,767, Griley-Unkle Engineering Co., U. S. A. *Monit. Papeterie*, lii, 160-2 (March 15, 1921).—The hood, back of the cylinder, is perforated to allow of the continuous removal of part of the stuff as soon as it is sufficiently beaten, without waiting for all the stuff to be completely beaten, which would result in some of it being overheated. The perforations in the hood are kept clear by means of a spray and also of blades slowly moving back and forth against the hood. A tag catcher is also provided.—A. P.-C.

Slitting and Rewinding Machine.—Fr. patent No. 463,449, Papeterie de Nanterre, *Papeterie*, xli, 7 (May 25, 1919), *Papier*, xxvii, 26 (March 2, 1921).—Translation by A. Papineau-Couture. See *Pulp and Paper*, xvii 826, K-14 (Sept. 25, 1919).—A. F.-C.

Manufacture of Mottled Paper.—Fr. patent No. 506,632, Charles Clark Orcutt, U. S. A. *Papeterie*, xliii, 205-9 (March 10, 1921).—A. P.-C.

Pulp Process.—Can. patent No. 209,927, Gonzalo Jose Bustamanta, South Hadley, Mass., U. S. A., March 1, 1921.—The vegetable is dried, immersed in cold water, separated into coarse fibers which are deposited in a receptacle containing quicklime, and treated successively with a cold alkaline solution, a bleaching agent, and a solution of volatile alkali. The bath thus formed is acidulated with hydrochloric and sulphuric acids, and the fibers are washed and comminuted. Claims allowed 4.—A. P.-C.

Evaporator Feed and Overflow Regulator.—Can. patent No. 209,100, The Griscom Russell Co., assignee of Joseph Price, both of New York City, N. Y. U. S. A., March 1, 1921.—The inlet valve of the evaporator is controlled so as to maintain a constant water level in the evaporator; and the discharge valve is automatically regulated in such a manner as to maintain the discharge at a uniform concentration, notwithstanding variation in the rate of evaporation. Claims allowed 17.—A. P.-C.

Sheet Rubber Liner.—Can. patent No. 209,322, The Diamond State Fiber Co., Bridgeport, assignee of August Martin Edwin Strijffert, Morristown, Pa., U. S. A., March 8, 1921.—The patent covers as a new article of manufacture a laminated structure consisting of alternate layers of rubber and a separable covering of relatively tough, pliable, glycerin-treated, chemically parchmentized vegetable fiber, the latter adhering more strongly to one face of each layer of rubber than to the fact of the second rubber layer with which it is engaged. Claims allowed 3.—A. P.-C.

Suction Drying Roll.—Can. patent No. 209,323, The Dominion Bridge Co., Ltd., Lachine, assignee of Henry H. Vaughan, Montreal, Quebec, Canada, March 8, 1921. Claims allowed 4.—A. P.-C.

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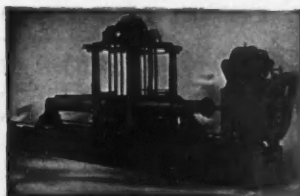
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Canadian Paper Exports

Canadian pulp and paper exports for September reached a value of \$9,457,027, a decline of \$7,033,665 as compared with September, 1920, and an increase of \$51,636 over the preceding month of August. Exports of news print for the month amounted to 1,224,136 cwts., compared with 1,212,225 in the corresponding month last year, an increase of 11,911 cwts. (595 tons) over last year, showing that, contrary to some reports, Canadian news print is not losing its foreign markets to European competition, although increased Canadian productive capacity should also be taken into consideration in comparing this year's exports with last. The month's figures indicate a continuance of the steady upward movement which has followed the drastic decline in April, with the exception of the month of June, as follows: March, \$12,407,476; April, \$6,946,236; May, \$7,931,525; June, \$6,788,932; July, \$8,666,556; August, \$9,395,391; September, \$9,457,027.

The month exports were made up as follows:

September, 1920	
Book paper, 3,291 cwts.....	\$ 32,609
News print, 1,212,225 cwts.....	6,542,179
Other paper	1,280,705
	<hr/>
	\$7,855,493

September, 1921	
Book paper, 810 cwts.....	\$ 432
News print, 1,224,136 cwts.....	5,503,368
Other paper	261,807
	<hr/>
	\$5,765,607

September, 1920		
	Volume	Value
Sulphate	274,190	\$1,398,092
Sulphite, bleached	222,306	1,999,016
Sulphite, unbleached	513,526	3,361,048
Groundwood	424,689	1,877,053
	<hr/>	<hr/>
	1,434,711	\$8,635,209

September, 1921		
Sulphate	225,192	753,418
Sulphite, bleached	118,515	492,471
Sulphite, unbleached	238,086	762,489
Groundwood	658,027	1,674,042
	<hr/>	<hr/>
	1,239,820	\$3,682,420

Countries of destination were: Paper—United Kingdom, \$116,591; United States, \$5,249,548; other countries, \$408,468. Pulp—United Kingdom, \$1,221,245; United States, \$2,175,937; other countries, \$285,238.

Comparative figures for the first six months of the current fiscal year show:

	Paper	Pulp	Total
1921	\$33,379,508	\$15,804,159	\$49,183,667
1920	43,025,764	44,217,712	87,243,476
1919	27,119,246	16,626,726	43,745,972

Shuler & Benninghofen Enlarge Plant

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, November 1, 1921.—Shuler & Benninghofen, proprietors of the Miami Valley Woolen mills at Hamilton, who do a large business with paper manufacturers throughout the United States, are preparing for an extensive enlargement of the plant by the construction of an addition.

The improvement is one of the most important undertaken during the present depression and reflects the confidence the firm holds in the future of the country. Business has been improving, the

proprietors state, for some time and they anticipate a continuance of improved conditions or they would not proceed with the erection of a plant which means the expenditure of \$200,000.

The building will be three stories in height, of modern and fire-proof construction throughout, and will face 300 feet on Benninghofen avenue and will have a depth of eighty feet. It is planned to use the addition for the carding and spinning rooms and it is expected the addition will increase the capacity of the plant 60 per cent.

The company also is erecting an addition to the office. For some time more room has been needed by the officials and clerical forces.

The factory addition consists of two separate buildings, one 84 by 92 feet in dimensions and the other 24 by 34 feet. The buildings will have brick walls and stone trimmings.

C. N. Makepeace, of Providence, R. I., is the architect and Andrew Benzing, of Hamilton, the contractor.

Investigating Dumping of Paper

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., November 2, 1921.—The investigation of the dumping of news print on the American market is still under way by the Customs Service of the Treasury Department. No action on this will be taken at all until the Customs Service receives a report from its representative in the Scandinavian countries. Officials of the Customs Service here state that that will be at least a month. Following the receipt of this report, the Customs Service has promised to hold a hearing before any decision is reached in the matter.

To Transfer Miami Paper Suit to U. S. Court

DAYTON, O., October 31, 1921.—Judge Edward T. Snediker of the Common Pleas Court has approved the transfer of the damage suit recently instituted by the Miami Paper Company, of West Carrollton, against the American Wood Pulp Corporation of New York, to the United States District Court.

This suit asks damages in the sum of \$63,327.33 for the alleged misrepresentation as to the kind of wood pulp to be supplied the Miami Valley firm. A contract is said to have been made for a certain kind of pulp which is said not to have met specifications.

W. W. Sunderland Honored

COLUMBUS, Ohio, October 31, 1921.—W. W. Sunderland, president of the Miami Paper Company of West Carrollton, has been named a member of the state library board, according to an announcement made by Governor Harry L. Davis.

Mr. Sunderland is expected to confer with the governor in the near future regarding the work. There are five persons on the board and Mr. Sunderland heads the list.

F. L. McClellan Heads Jobbers Section

MINNEAPOLIS, Minn., October 31, 1921.—F. L. McClellan, at the annual meeting of the executive committee of the wholesalers and jobbers section of the Minneapolis Civic & Commerce Association on Thursday of last week, was elected chairman of the committee to succeed Sewall D. Andrews, who declined to be a candidate for re-election.

Boston Paper Trade to Meet November 16

[FROM OUR REGULAR CORRESPONDENT.]

BOSTON, Mass., November 1, 1921.—Wednesday, November 16, is the date and the Exchange Club, Boston, the place for the Fall meeting of the Boston Paper Trade Association. An attractive program for the entertainment features has been arranged, including moving pictures, vocal artists, etc.

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New York Market Review

OFFICE OF THE PAPER TRADE JOURNAL,
WEDNESDAY, November 2, 1921.

The situation in the New York paper market presented a favorable front during the last seven days although no marked advances or retrogressions were recorded. These days are unsteady and unusual ones in the paper industry as well as in all other lines of business. A feeling of uncertainty exists as to just what the outcome will be, but back of all is the faith that everything is working out for the best in the field of economics. This feeling is attested to by those who have recently traveled in the South and West, while in the East as well paper men are well assured that the country in general is steadily striving to attain its normal condition again. All conditions are working to build up a strong paper market. The increase in activity to be expected during the Fall and Winter months is at hand and the manufacturers are only too glad to meet fresh demands with increased production. Many paper mills are running at or close to capacity at present although they were practically shut down during the Summer. All things contribute to a good feeling through the trade.

News print has been firm during the week. The demand has slightly improved if any change at all may be noted. Prices have not fluctuated greatly for several weeks, news print contract rolls still being quoted at 4.00 cents a pound, transit rolls at from 4.00 to 4.25, and sheets at from 4.00 to 4.50. Production of news print will undoubtedly increase noticeably within a few weeks, because during the summer the drought permitted only limited quantities of wood to be ground thus keeping the supply of pulp far below normal.

The market in book paper has been quiet on the whole for several days. Prices are apparently in equilibrium. Optimism is rife, however, in this department since the book paper market will not lag when other business is again normal. That normalcy is near at hand is clearly indicated by the increased activity of the retail business and by the very quick turnover in the marketing of agricultural products during the month of October.

Trading operations in the fine paper market have been nominal in the past week. Fine paper also awaits better times in order to advance in activity although sales slightly larger than the previous week indicate that already better days are anticipated.

Tissue is in very good demand and small lots find ready buyers. The market has strengthened appreciably and bids fair to continue strong for some time. Prices show little change. No. 1 white is quoted at from 75 cents to \$1.00, colored \$1.10 to \$2.25, anti-tarnish 80 cents to \$1.00, and silver tissue at from \$1.50 to \$2.70.

The kraft market is among the leaders in improvement. Both large and small lots are in good demand and a generous supply from the mills tends to keep the market active and the feeling excellent. At present some kraft mills are several days behind in their orders manifesting that the edge of the revival movement at least is here.

The board market shows very little activity although the tendency is toward a better demand as indicated by slightly larger sales the last two weeks. News board continues to be the most active of the group now selling at \$45 to \$55 a ton.

Mechanical Pulp

The mechanical pulp market is just beginning to feel a reaction from the lassitude forced upon it by low water during the Summer. Wood is being ground now in several localities that were of necessity quiet last dry season, and in all mills the production has been quickened to meet the increased seasonal demand. Importations of mechanical pulp have shown a decided increase during the past week and the outlook is distinctly encouraging. Prices are firm.

Chemical Pulp

Kraft, easy bleaching, and bleached sulphite pulp are strong

while bleached and No. 1 strong unbleached are less active. Prices have advanced a little all along the line. Importations are improving but still subnormal and domestic mills are more active than for a considerable period. Small job lots have been cleared away and orders are for larger quantities than formerly. Bleached sulphite imported is quoted at 4.25 to 4.50 cents a pound, easy bleaching at 3.00 to 3.75, No. 1 strong unbleached at 3.00 to 3.50, No. 1 kraft at 2.75 to 3.00, and bleached sulphate at 3.50 to 4.00.

Old Rope and Bagging

The old rope and bagging market is more active. Orders have increased materially and prices are higher in most cases. An improvement long awaited in this department appears to be at hand and although the situation presents a mixed appearance increased activity and strength are dominating.

Rags

The rag market is strong, and roofing stock retains first place for activity. The demand is constant and satisfactory in the light of present day uncertainty while a good quantity is on hand for disposal at prices slightly higher than last week.

Waste Paper

The waste paper market is weak as opposed to the rag and bagging department but doing better on the whole than for some weeks. The market prices present a mottled appearance some lower and a few higher than those last quoted. Hard white shavings are in demand and selling at a constant price of 4.25 to 4.50 cents a pound.

Twine

Business in twine is slow although no backward movement has been reported. In fact optimism prevails in this market. It is confidently expected that things will boom within the next few weeks and so for the present dealers and jobbers are contented to sit back and take the rather inactive demand for granted. Prices are about the same with nominal fluctuation.

Scores Illegal Associations

CHICAGO, October 26, 1921.—"First among the standards of the Trade Executive should, I believe, be absolute open co-operation on the part of our respective associations with the United States Government and with the public at large, and personally I approve Mr. Hoover's suggestion of open information," said President Emmet Hay Naylor of the American Trade Association Executives in opening the annual convention today. Mr. Naylor, who is secretary of the associations of fine paper manufacturers and one of the best known secretaries whose organizations are federated in the American Paper and Pulp Association, continued:

"By reporting definite representative information to the Government the association will be strengthened and benefit will come not only to the industry but to our national industrial stability through a clear, frank understanding of facts. If the reports of an association are carefully and accurately compiled they can only benefit the industry and the members of the Association by being made public. If they misrepresent and hurt the industry it is because the Trade Association has not accurately compiled and presented the facts. The elimination of mushroom, illegal trade associations is absolutely necessary not only for the good of the public, but for the good of our profession as trade association.

"I cannot resist very forcefully suggesting that if the general facts about business conditions in an industry are to be made public through a Government agency that the Government Agency use the Trade Association which represents that industry as the source of correct information. Otherwise there would have to be a board of experts at Washington for practically every industry to do the work in which the existing trade association is a specialist."

Market Quotations

Paper Company Securities

New York Stock Exchange, closing quotations November 1, 1921:

Stocks	BID.	ASKED.
American Writing Paper Company, pref.	24	25
International Paper Company, com.	53 3/4	54
International Paper Company, pref., stamped.	70 1/4	71 1/4
Union Bag & Paper Corporation.	65	66 1/2

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

Paper		F. o. b. Mill.	
Ledgers	12	@	30
Bonds	9.00	@	55.00
Writings—			
Extra Superfine.	13	@	25
Superfine	13	@	20
Tub Sized	13	@	16
Engine Sized	9.00	@	15.00
News—f. o. b. Mill—			
Rolls, contract	4.00	@	—
Rolls, transit	4.00	@	4.25
Sheets	4.00	@	4.50
Side Runs	3.50	@	4.00
Book, Cased—f. o. b. N. Y.—			
S. & S. C.	6.75	@	7.75
M. F.	6.50	@	7.50
Coated and Enamel			
Lithograph	9.00	@	11.00
Lithograph	9.00	@	11.25
Tissues—f. o. b. N. Y.—			
White, No. 1	.75	@	1.00
Colored	1.10	@	2.25
Anti-Tarnish	.80	@	1.00
Silver Tissue	1.50	@	2.70
Manila	.70	@	.80
Kraft—f. o. b. Mill—			
No. 1 Domestic	6.50	@	7.25
No. 2 Domestic	5.75	@	6.50
Imported	6.00	@	6.50
Sulphite Screenings	2.00	@	3.00
Manila—			
No. 1 Jute	8.00	@	9.00
No. 2 Jute	7.75	@	8.50
No. 1 Wood	5.00	@	6.00
No. 2 Wood	4.50	@	5.00
Butchers	4.90	@	5.70
Fiber Papers—			
No. 1 Fiber	6.00	@	7.00
No. 2 Fiber	5.00	@	6.00
Common Bogus	1.80	@	2.10
Card Middies	4.00	@	5.00
Boards—per ton—			
News	45.00	@	55.00
Straw	35.00	@	40.00
Chip	35.00	@	40.00
Binders' Board	65.00	@	75.00
Spl. Mla. Ld. Crisp	55.00	@	60.00
Wood Pulp	80.00	@	90.00
Container	65.00	@	70.00

Mechanical Help

No. 1 Imported (Ex-Dock)	30.00	@	35.00
F. o. b. Pulp Mills.	30.00	@	35.00
No. 1 Domestic	30.00	@	35.00

Chemical Pulp

(Ex-Dock, Atlantic Ports.)			
Sulphite (Imported)—			
Bleached	4.25	@	4.50
Easy Bleaching	3.00	@	3.75
No. 1 Strong un-			
bleached	3.00	@	3.50
No. 1 Kraft	2.75	@	3.00
Sulphate—			
Bleached	3.50	@	4.00
(F. o. b. Pulp Mill.)			
Sulphite (Domestic)—			
Bleached	4.00	@	4.50
Strong unbl'cd.	3.00	@	3.25
Easy Bleaching			
Sulphite	3.00	@	3.50
News Sulphite	2.75	@	3.00
Mitscherlich	3.15	@	3.75
Kraft (Domestic)	2.75	@	3.00
Soda bleached	4.00	@	4.25

Domestic Rags

New		Prices to Mill, f. o. b. N. Y.	
Shirt Cuttings	1.10	@	11.00
New White, No. 1	1.25	@	6.75
New White, No. 2	1.25	@	6.75
Silesias, No. 1	1.25	@	7.00
New Unbleached	1.25	@	9.50
Washables	1.50	@	5.00
Fancy	4.50	@	6.00
Cottons—according to Grades—			
Blue Overall	6.25	@	6.75

New Blue	5.25	@	6.00
New Black Soft	3.75	@	4.00
New Light Sec-	2.75	@	3.00
onds	2.75	@	3.00
O. D. Khaki Cut-			
tings	3.75	@	4.00
Corduroy	3.00	@	3.25
New Canvas	7.00	@	7.50
New Black Mixed	2.75	@	3.25

Old		White, No. 1—	
Repacked	6.75	@	7.25
Miscellaneous	5.50	@	6.00
White No. 2—			
Repacked	3.50	@	3.75
Miscellaneous	3.00	@	3.25
St. Soiled White	1.50	@	1.65
Thirds and Blues—			
Repacked	2.00	@	2.25
Miscellaneous	1.50	@	1.75
Black stockings	1.75	@	2.00
Cloth Strippings	1.15	@	1.25
No. 1	1.25	@	1.30
No. 2	1.05	@	1.10
No. 3	.95	@	1.00
No. 4	.95	@	1.00
No. 5A	.90	@	1.00

Foreign Rags

New Light Silesias	6.00	@	6.25
Light Flannelettes	6.75	@	7.00
Unbl'cd Cottons	7.50	@	8.50
New White Cut-			
tings	9.50	@	10.50
New Light Oxfords	6.00	@	6.50
New Light Prints	4.50	@	5.00
New Mixed Cut-			
tings	nominal		
New Dark Cuttings	2.50	@	3.00
No. 1 White Linens	8.75	@	9.75
No. 2 White Linens	6.50	@	7.50
No. 3 White Linens	5.00	@	5.25
No. 4 White Linens	3.50	@	4.00
Old Extra Light			
Prints	2.25	@	2.75
Ord. Light Prints	1.75	@	2.00
Med. Light Prints.			
nominal			
Dutch Blue Cottons	2.10	@	2.25
German Blue Cot-	1.75	@	1.90
tons	1.75	@	1.90
Ger. Blue Linens	3.00	@	3.50
Checks and Blues	1.50	@	1.60
Dark Cottons	1.15	@	1.25
Shoppers	1.05	@	1.15
French Blues	2.00	@	2.15

Bagging

Prices to Mill f. o. b. N. Y.		Gunny No. 1—	
Foreign	1.00	@	1.10
Domestic	1.10	@	1.20
Wool, Tares, light	1.20	@	1.30
Wool, Tares, heavy	1.25	@	1.40
Bright Bagging	1.20	@	1.30
No. 1 Scrap	1.00	@	1.10
Sound Bagging	.75	@	.85
Manila Rope—			
Foreign	4.75	@	5.00
Domestic	5.00	@	5.25
New Ru Cut.	2.50	@	3.00
Hessian Jute Threads—			
Foreign	4.25	@	4.50
Domestic	4.00	@	4.25
Mixed Strings	.85	@	.95

Twines

Cotton—(F. o. b. Mill)			
No. 1	32	@	34
No. 2	30	@	32
No. 3	26	@	28
India, No. 6 basis—			
Light	15	@	15 1/2
Dark	15	@	15 1/2
B. C., 18 Basis	39	@	40
A. B. Italian, 18	50	@	60
Basis			
Finished Jute—			
Light, 18 basis	28	@	29
Dark, 18 basis	26	@	28

Jute Wrapping, 2-6

Fly—			
No. 1	25	@	26
No. 2	23	@	24
5-ply and larger.			
Fine Tube Yarn—	17	@	18
5-ply and larger.	30	@	32
4-ply	31	@	33
3-ply	32	@	34
Unfinished India—			
3-ply and larger.	16	@	17
Paper Makers Twine			
Balls	10 1/2	@	12 1/2
Box Twine, 2-4 ply	14	@	16
Jute Rope	20	@	24
Amer. Hemp, 6	32	@	34
Sisal Hay Rope—			
No. 1 Basis	19	@	22
No. 2 Basis	18	@	20
Sisal Lath Yarn—			
No. 1	18	@	19
No. 2	17	@	19
Manila Rope	26	@	28

Old Waste Papers

Shavings—			
Hard White, No. 1	4.25	@	4.50

Hard White, No. 2	3.25	@	3.50
Soft White, No. 1	3.00	@	3.25

Flat Stock—			
Stitchless	1.60	@	1.65
Over Issue Mag.	1.65	@	1.70
Solid Flat Book	1.40	@	1.50
Crumpled No. 1	1.00	@	1.15
Solid Book Ledger	2.00	@	2.00
Ledger Stock	1.75	@	2.00
No. 1 White News	2.00	@	2.10
New B. B. Chips	.60	@	.65

Manilas—			
New Env. Cut	3.00	@	3.15
New Cut No. 1	2.15	@	2.25
Extra No. 1, Old	1.60	@	1.70
Print	.90	@	1.00
Container Board	.85	@	.90
Bogus Wrapper	.65	@	.75
Old Krafts, machine compressed			
Bales	2.25	@	2.50

News—			
Strictly Overissue	.80	@	.85
Strictly Folded	.65	@	.75
No. 1 Mixed Paper	.50	@	.55
Common Paper	.35	@	.40

CHICAGO

[FROM OUR REGULAR CORRESPONDENT.]

Paper

F. o. b. Mill.			
All Rag Bond	40	@	—
No. 1 Rag Bond	30	@	40
No. 2 Rag Bond	18	@	20
Water Marked Sul-			
phite	11	@	15
Sulphite Bond	9	@	12
Sulphite Ledger	14	@	15
Superfine Writing	23	@	30
No. 1 Fine Writing	20	@	27
No. 2 Fine Writing	18	@	25
No. 3 Fine Writing	11	@	14
No. 1 M. F. Book	5 3/4	@	7
Book			
S. & S. C.	6 1/4	@	7 1/4
Coated Book	8 3/4	@	10 3/4
Coated Label	8 3/4	@	10 3/4
News—Rolls, mill.	4	@	5
News—Sheets, mill.	4 1/2	@	5 1/2
No. 1 Manila			
No. 1 Fiber	5 1/2	@	—
No. 2 Manila	5	@	—
Butchers' Manila	4 3/4	@	—
No. 1 Kraft	6	@	—
No. 2 Kraft	5 1/2	@	—
Wood Tag Boards	5	@	—
Screenings	3	@	—

Boards, per ton—			
Plain Chip	45.00	@	47.50
Solid News	50.00	@	55.00
25 and heavier	55.00	@	57.50
18 to 24	57.50	@	60.00
Manila Lined			
Chip	60.00	@	65.00
Container Line—			
85 Test	65.00	@	67.50

PHILADELPHIA

[FROM OUR REGULAR CORRESPONDENT.]

Paper

Bonds	.10	@	.60
Ledgers	.15	@	.40
Writings—			
Superfine	.15	@	.20
Extra fine	.12	@	.22
Fine	.20	@	.30
Fine, No. 2	.20	@	.25
Fine, No. 3	.15	@	.20
Book, M. F.	.06	@	.09
Book, S. S. & C.	.08	@	.15
Book, Coated	.08	@	.15
Coated Lithograph	.10	@	.15
Label	.08	@	.15
News	.05	@	.07
No. 1 Jute Manila	18	@	18 1/2
Manila Sul., No. 1	.09 1/2	@	.10
Manila No. 2	.08 1/2	@	.09
No. 2 Kraft	—	@	.07
No. 1 Kraft	—	@	.08
Common Bogus	.02	@	.03 1/2
Straw Board	35.00	@	45.00
News Board	40.00	@	45.00
Chip Board	30.00	@	

Imports and Exports of Paper and Paper Stock

NEW YORK, BOSTON, PHILADELPHIA AND OTHER PORTS

NEW YORK IMPORTS

WEEK ENDING OCTOBER 29, 1921

SUMMARY

News print.....636 rolls
 Printing paper.....92 cs. 11 rolls, 94 bis.
 Writing paper.....30 cs.
 Cigarette paper.....54 cs.
 Packing paper.....917 bis., 2,857 rolls, 272 pkgs.
 Surface coated paper.....73 cs.
 Drawing paper.....3 cs.
 Filter paper.....14 cs.
 Wall paper.....2 cs.
 Miscellaneous paper,
 287 cs., 1,121 rolls, 4,071 bis., 1,253 pkgs.

CIGARETTE PAPER

American Tobacco Co., Paris, Havre, 54 cs.
 WRITING PAPER
 Whiting & Patterson, La Lorraine, Havre, 3 cs.
 E. Dietzgen, Providence, Marseilles, 27 cs.

PRINTING PAPER

B. T. Drakenfeld, Albania, Liverpool, 10 cs.
 Neuschaefer, Chickasaw, Hamburg, 7 rolls.
 Sherwin Bros., same, 4 rolls.
 H. Reene Angel & Co., Plow City, Helsingfors, 94 bla.
 L. A. Consmiller, Westerdijk, Rotterdam, 82 cs.

NEWS PRINT

H. Reene Angel & Co., Plow City, Kotka, 87 rolls.
 H. Reene Angel & Co., Plow City, Helsingfors, 400 rolls.
 Sun Herald Corp., same, 79 rolls.

PACKING PAPER

Republic Bag & Paper Co., Chickasaw, Hamburg, 550 bales.
 Republic Bag & Paper Co., same, 66 pkgs.
 Republic Bag & Paper Co., same, 1,904 rolls.
 Republic Bag & Paper Co., Tordenskjold, Hamburg, 900 rolls.
 Republic Bag & Paper Co., same, 367 bales.
 Republic Bag & Paper Co., same, 204 pkgs.
 Wilkinson Bros. & Co., Westerdijk, Rotterdam, 53 rolls.

SURFACE COATED PAPER

L. A. Consmiller, Westerdijk, Rotterdam, 73 cs.

DRAWING PAPER

H. Reene Angel & Co., Westerdijk, Rotterdam, 3 cs.

FILTER PAPER

H. Reene Angel & Co., Westerdijk, Rotterdam, 14 cs.

WALL PAPER

G. W. Sheldon & Co., Montauk, London, 2 cs.

PAPER

G. W. Sheldon & Co., La Lorraine, Havre, 6 cs.
 Japan Paper Co., Arabic, Naples, 225 cs.
 A. T. A. Merchandising Co., Chickasaw, Hamburg, 79 rolls.
 Natl. Park Bank, Ossineke, Gothenburg, 1,253 pkgs.
 Druggists' Supply Co., Adriatic, Liverpool, 46 cs.
 Henle Max Paper Co., Paris, Havre, 10 cs.
 D. S. Walton Co., Tordenskjold, Hamburg, 3,880 bis.
 C. K. MacAlpine, Asabeth, Gothenburg, 117 bis.
 C. K. MacAlpine, same, 664 rolls.
 American Transoceanic Traders, Inc., Asabeth, Helsingfors, 378 rolls.

RAGS, BAGGINGS, ETC.

Wilkinson Bros. & Co., Inc., America, Bremen, 320 bales rags.
 Ladenburg Thalman & Co., Assyria, Glasgow, 71 bales rags.
 Equitable Trust Co., Eastern Sea, Rotterdam, 497 bales rags.
 J. R. Walker, Hindoo, Hull, 27 bales rags.
 State Bank, Chickasaw, Hamburg, 56 bales rags.
 Parsons & Whittemore, same, 40 bales rags.
 Ladenburg, Thalman & Co., same, 27 bales rags.
 E. J. Keelar Co., Hafters, Naples, 60 bis. cotton waste.

Dallas Waste Mills, Hufters, Naples, 40 bales cotton waste.
 Irving National Bank, Archmiede, Manchester, 86 bales paper stock.
 E. Butterworth & Co., same, 40 bales news cuttings.
 F. Butterworth & Co., same, 170 bags hide cuttings.
 R. F. Downing & Co., same, 128 bales news cuttings.
 Guaranty Trust Co., same, 104 bales bagging.
 P. Berlowitz, Geo. Washington, Bremen, 233 bales rags.
 Ladenburg, Thalman & Co., Tordenskjold, Hamburg, 103 bales rags.
 Castle, Gottheil & Overton, Princess Matorka, Bremen, 139 bales rags.
 Castle, Gottheil & Overton, Lapland, Antwerp, 412 bales bagging.
 E. J. Keller Co., Archimedes, Manchester, 165 bales bagging.

OLD ROPE

Ladenburg, Thalman & Co., Westerdijk, Rotterdam, 103 coils.
 Ladenburg, Thalman & Co., Tordenskjold, Hamburg, 96 coils.
 Ladenburg, Thalman & Co., Saxonia, Hamburg, 100 coils.
 W. H. Cummings & Son, Madonna, Marseilles, 12 coils.
 W. Schall & Co., same, 73 coils.
 Brown Bros. & Co., Bloemfontein, Hull, 292 coils.
 J. W. Ramsay & Co., Assyria, Glasgow, 50 coils.
 M. O'Meara Co., United States, Copenhagen, 162 coils.
 Atlantic National Bank, Eastern Sea, Antwerp, 57 coils.
 First National Bank of Boston, Arabic, Naples, 260 coils.
 Brown Bros. & Co., Hindoo, Hull, 42 coils.
 E. J. Keller Co., Noordam, Rotterdam, 191 bales.

CASEIN

Kalbfeisch, Corp., Delambre, Baires, 1,666 bales.

WOOD PULP

American Woodpulp Corp., United States, Copenhagen, 919 bales wood pulp.
 National City Bank, United States, Kristiania, 860 bales wood pulp.
 J. Anderson & Co., same, 1,050 bales wood pulp.
 F. Butterworth & Co., same, 90 bales wood pulp.
 National Bank of Commerce, Virginian, Hamburg, 1,366 bales wood pulp, 203 tons.
 Brown Bros. & Co., same, 681 bales wood pulp, 100 tons.
 National Bank of Commerce, Lestric, Lundswall, 2,500 bales sulphite, 500 tons.
 American Woodpulp Corp., same, 5,000 bales sulphite, 1,000 tons.
 Brown Bros. & Co., Chickasaw, Hamburg, 1,578 bales wood pulp, 165 tons.
 Lagerloef Trading Co., Plow City, Katka, 112 bales wood pulp boards.
 Castle, Gottheil & Overton, Noordam, Rotterdam, 1,198 bales wood pulp.
 National City Bank, Ossineke, Gothenburg, 600 bales wood pulp, 101 tons.
 F. Enders & Co., same, 4,800 bales wood pulp.
 National City Bank, Ossineke, Stugsund, 4,830 bales wood pulp.
 H. Hollesen, Fordenskjold, Hamburg, 1,000 bales wood pulp, 200 tons.
 Parsons Trading Co., Asabeth, Gothenburg, 813 bales dry chemical pulp, 101 tons.
 Scandinavian-American Trading Co., same, 508 bales bleached sulphite, 101 tons.
 Scandinavian-American Trading Co., same, 254 bales kraft sulphate, 50 tons.
 C. L. Robinson, same, 3,150 bales wood pulp, 457 tons.
 American Writing Paper Co., same, 175 bales kraft pulp, 25 tons.

BALTIMORE IMPORTS

WEEK ENDING OCTOBER 29, 1921

Parsons Trading Co., Asabeth Gothenburg, 813 bales dry chemical pulp, 101 tons.
 Equitable Trust Co., same, 250 bales dry chemical pulp, 50 tons.
 Wood Pulp Trading Co., Ltd., Eastern Temple, 2,700 bales wood pulp.

Guaranty Trust Co., same, 1,800 bales wood pulp, 361 tons.
 Scandinavian-American Trading Co., same, 4,000 bales dry sulphate, 812 tons.
 Scandinavian-American Trading Co., 1,524 bales kraft sulphate, 304 tons.
 F. Enders & Co., Ossineke, Gothenburg, 11,935 bales wood pulp.
 American Woodpulp Corp., Lestric, Lundswall, 5,000 bales sulphite, 1,000 tons.
 National Bank of Commerce, same, 2,500 bales sulphite, 500 tons.
 E. Butterworth & Co., Eastern Sea, Antwerp, 668 bales rags.
 Hudson Trading Co., Asabeth, 260 bales sulphite.

BOSTON IMPORTS

WEEK ENDING OCTOBER 29, 1921

Lagerloef Trading Co., Plow City, Kotka, 2,134 bales sulphite cellulose.
 Lagerloef Trading Co., same, 1,298 bales dry soda pulp.

PHILADELPHIA IMPORTS

WEEK ENDING OCTOBER 29, 1921

Irving National Bank, Ossineke, Gothenburg, 1,000 bales wood pulp, 203 tons.
 F. Enders & Co., same, 8,930 bales wood pulp.
 A. J. Page & Co., Gustavesholm, Gelfe, 4,500 bales sulphate.
 American Woodpulp Corp., Gustavesholm, skutskar, 1,000 bales dry wood pulp.
 Scandinavian-American Trading Co., same, 2,000 bales dry wood pulp.
 Irving National Bank, Plow City, Raumo, 2,667 bales cellulose.
 Lagerloef Trading Co., same, 6,898 bales cellulose.
 Lagerloef Trading Co., Plow City, Kotka, 81 bales dry soda pulp.
 Lagerloef Trading Co., same, 2,898 bales sulphite cellulose.
 H. Reene Angel & Co., same, 206 reels news print.
 American Woodpulp Corp., Virginian, Hamburg, 154 bales rags.
 M. Rice & Co., same, 32 cs. crepe paper.
 E. J. Keller Co., Arkansas, Copenhagen, 660 bales wood pulp.
 E. J. Keller Co., Deranof, Bremen, 416 bales rope.

SAN PEDRO, CAL., IMPORTS

WEEK ENDING OCTOBER 15, 1921

Hudson Trading Co., Eastern Sailor, 55 rolls news print.

NEW ORLEANS IMPORTS

WEEK ENDING OCTOBER 29, 1921

Hudson Trading Co., West Narronus, 749 rolls news print.
 Wood Pulp Trading Co., Ltd., West Narronus, 1,200 bales wood pulp.

CHARLESTON IMPORTS

WEEK ENDING OCTOBER 29, 1921

Castle, Gottheil & Overton, Caldbrook, Antwerp, 833 bales bagging.

SAN FRANCISCO IMPORTS

WEEK ENDING OCTOBER 29, 1921

Castle Gottheil & Overton, Chile, Rotterdam, 500 bales wood pulp.

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 Sole Selling Agents
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 "DAYLITE" means
 Nature's light with-
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Fourdrinier Wires
 In all widths up to 250 inches
CYLINDER FACES
WASHER WIRES
 In Brass, Bronze and Phosphor Bronze
The W. S. Tyler Company
 Cleveland, Ohio

Miscellaneous Markets

OFFICE OF THE PAPER TRADE JOURNAL,
WEDNESDAY, November 2, 1921.

ALUM.—The alum market is moderately active, but deals are entirely in the small quantities. The price of ammonia alum is from 3.65 to 3.75 cents a pound for the lump, 3.75 to 4.00 for the ground, and 4.15 to 5.25 for the powdered.

BLEACHING POWDER.—Buyers have lately taken larger stocks of bleach powder, in part because of the threatened strike and in part on account of the depleted condition of their stocks. Domestic bleach sells at from 2.50 to 3.00 cents a pound, f. o. b. works, and foreign bleach at from 2.00 to 2.25 cents a pound, depending upon quality.

BLANC FIXE.—There is no improvement over last week manifest in this department, although sales are sufficient to maintain a good feeling. The price is at from \$40.00 to \$50.00 a ton, depending upon the grade required, and for powdered blanc fixe at from 3.50 to 3.75 cents a pound.

BRIMSTONE.—There is not much fluctuation in the sulphur market, prices remaining the same at from \$15.00 to \$16.00 a long ton at the mines.

CASEIN.—While little casein is coming from South America at present, business here is better and the demand is proportionately larger. It is hoped that the demand for this commodity will increase steadily so that the market will hold strong when large importations, occasioned by the "flush," arrive in February and March from Argentina.

CAUSTIC SODA.—The caustic soda market remains largely as last week, with small lots selling readily and orders for large quantities slightly more numerous owing to a fear of disruption in transportation schedules. It is quoted at 3.25 cents a pound on the basis of 60 per cent, f. o. b. works.

ROSIN.—The condition of things in this market is greatly improved. A firm undertone prevails through the trade and the general feeling is excellent. The prices show very little change, now being listed at \$5.50 for grade E, \$5.70 for grade F, and \$5.75 for grade G, ex-yard New York.

CHINA CLAY.—China clay is in a more imposing position than it has been for several weeks. Importations of the English product are more numerous and the demand fairly strong. The domestic is quoted at from 6.50 to 8.00 cents a pound for the unwashed, 8.00 to 10.00 for the washed, and 15.00 to 20.00 for the imported.

SALTCAKE.—Although the saltcake supply is low, the market appears to be picking up sufficient quantities to maintain a good feeling on all sides. The price ranges from \$17.00 to \$25.00, according to quality.

SATIN WHITE.—The satin white market is quiet on the whole, the price remaining at 2.10 cents a pound.

STARCH.—Globe starch is in good demand and an adequate supply appears to be on hand for the present. The price is \$1.78 a bag for the domestic and about 6.00 cents a pound for the imported.

SULPHATE OF ALUMINA.—A firm tone is apparent in the sulphate of alumina market. The commercial grade sells at from 1.75 to 2.10 cents a pound, and the iron free at from 2.75 to 3.00 cents a pound, the low limit standing for bags and the high for barrels in each case.

SODA ASH.—The demand is good for soda ash and very little is available in foreign markets at present. The domestic is quoted at 2.20 to 2.50 and the foreign at 1.85 to 1.95.

TALC.—More talc has moved in the last ten days than for a considerable period and hopes run high that the activity will hold through the next few months. Talc sells at from \$14.00 to \$18.00 a ton.

Market Quotations

(Continued from page 59)

Solid Ledger Stock. 2.00 @ 2.25	New Black Soft. .03 @ .03 1/2
Writing Paper.... 1.80 @ 2.00	New Light Sec-
No. 1 Books, heavy. 1.50 @ 1.75	onds ..... .02 1/2 @ .02 1/2
No. 2 Books, light. 1.25 @ 1.50	Khaki Cuttings... .03 @ .03 1/2
No. 1 New Manila. 2.75 @ 3.00	Corduroy ..... .02 @ .02 1/2
No. 1 Old Manila... 1.50 @ 1.75	New Canvas ..... .08 @ .08 1/2
Container Manila... .90 @ 1.00	New Black Mixed 3.00 @ 3.25
Old Kraft..... 2.00 @ 2.25	
Overissue News.... .90 @ 1.00	White, No. 1—
Old Newspaper.... .60 @ .70	Repacked ..... .06 @ .06 1/2
No. 1 Mixed Paper. .50 @ .60	Miscellaneous ... .04 1/2 @ .04 3/4
Common Paper.... .40 @ .50	White, No. 2—
Straw Board, Chip. .40 @ .50	Repacked ..... .03 @ .03 1/2
Binders' Bd. Chip. .40 @ .50	Miscellaneous ... .02 1/2 @ .03 1/2
Domestic Rags—New.	Thirds and Blues—
Price to Mill, f. o. b. Phila.	Repacked 1.85 @ 2.00
Shirt Cuttings—	Miscellaneous ... 1.55 @ 1.75
New White, No. 1. .09 @ .09 1/2	Black stockings... 1.75 @ 2.25
New White, No. 2. .05 1/4 @ .06	Roofing Stock—
Silesias, No. 1.. .05 1/4 @ .06	No. 1..... .90 @ 1.00
New unbleached. .08 @ .09	No. 2..... .80 @ .90
Washables ..... .03 1/2 @ .03 3/4	No. 3..... .70 @ .80
Fancy ..... .05 @ .05 1/2	No. 4..... .75 @ .85
Cottons—according to grades—	No. 5A..... nominal
Blue Overall.... .05 @ .05 1/2	B..... nominal
New Blue..... .02 1/2 @ .02 3/4	C..... nominal

BOSTON

[FROM OUR REGULAR CORRESPONDENT.]

Paper	Wood, Vat Lined. .47.50 @ 50.00
Bonds ..... .08 1/2 @	Filled News Board. 42.50 @
Ledgers ..... .09 @	Solid News Board. 42.50 @ 47.50
Writings ..... .08 1/2 @	S. Manila Chip... 55.00 @
Superfine ..... .15 @	Pat. Coated..... 75.00 @
Fine ..... .12 @	
Books, S. & S. C. .07 1/4 @	
Books, M. F. .... .07 @	
Books, coated ..... .09 1/2 @	
Label ..... .10 @	
News, sheets..... \$4.50 @	
News, rolls..... .04 @	
Manilas—	
No. 1 Manila... \$7.00 @	
No. 1 Fibre..... 8.00 @	
No. 1 Jute..... 8.00 @	
Kraft Wrapping... 7.00 @	
Common Bogus... 3.00 @	

Boards


(Per Ton Destination)	
Chip \$37.50 @ \$40.00	
News, Vat Lined... 42.50 @	

TORONTO

[FROM OUR REGULAR CORRESPONDENT.]

Paper	Sulphite bleached.... 90.00 @ 95.00
(Mill Prices to Jobbers f. o. b. Mill)	Sulphate 70.00 @ 72.00
Bond—	Old Waste Papers
Sulphite 13 @ —	(In carload lots, f. o. b. Toronto)
Light tinted 14 @ —	Shavings—
Dark tinted 15 1/2 @ —	White Env. Cut. 3.50 @
Ledgers 14 @ —	Soft White Book
Writing 11 @ 15	Shavings 3.35 @
News, f. o. b. Mills—	White BPL News 1.90 @
Rolls (carloads). 4.00 @ —	Book and Ledger—
Sheets (2 tons or	Flat Magazine and
over) 4.75 @ —	Book Stock
Books—	(old) 1.35 @ —
No. 1 M. F. (car-	Light and Crum-
loads) 10.00 @ —	pled Book Stock 1.20 @ —
No. 2 M. F. (car-	Ledgers and
loads) 9.00 @ —	Writings 1.80 @ —
No. 3 M. F. (car-	Solid Ledgers .. 1.60 @ —
loads) 8.50 @ —	Manilas—
No. 1 S. C. (car-	New Manila Cut. 1.85 @ —
loads) 10.50 @ —	Printed Manilas. 70 @ —
No. 2 S. C. (car-	Kraft 2.25 @ —
loads) 9.50 @ —	News and Scrap—
No. 1 Coated and	Strictly Overissue 1.00 @ —
litho. 15.00 @ —	Folded News.... 1.00 @ —
No. 2 Coated and	No. 1 Mixed Pa-
litho. 14.00 @ —	pers ..... .75 @
No. 3 Coated and	Domestic Rags—
litho. 13.25 @ —	Price to mills, f. o. b. Toronto.
Coated and litho.,	Per lb.
colored 15.25 @ —	No. 1 White shirt
Wrapping—	cuttings ..... .09 1/2 @ .10
Grey 4.75 @ —	No. 2 White shirt
White Wrap.... 5.25 @ —	cuttings ..... .05 1/2 @ .05 3/4
"B" Manila.... 5.75 @ —	Fancy shirt cut-
No. 1 Manila.... 7.50 @ —	tings ..... .05 1/4 @ .05 1/2
Fibre 7.25 @ —	No. 1 Old whites .04 @ —
Kraft M. F. or	Thirds and blues .02 @ .02 1/2
M. G. 8.75 @ —	Per cwt.
	Black stockings. 2.00 @ —
	Roofing stock
Pulp	No. 1..... 1.40 @
(F. o. b. Mill)	No. 2..... 1.30 @
Ground Wood.... \$27.50 @ \$35.00	Roofing stock
Sulphite, heavy bleach-	Manila rope..... .04 1/2 @ .05
ing 65.00 @ 75.00	No. 201 1/2 @ —
Sulphite, news grade.. 60.00 @ 65.00	Gunny bagging02 1/2 @ —

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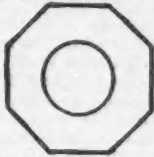
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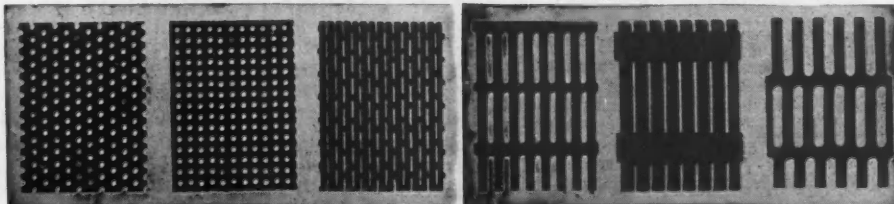
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CLASSIFIED RATES

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

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

HELP AND MISCELLANEOUS WANTS, and small For Sale Ads, 4 cents a word for each and every insertion. No ads of less than 25 words accepted.

When answering advertisements, please address the Box Number given in ad.

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

All classified ads for the current issue must be in hand not later than Monday preceding date of publication.

HELP WANTED

EXPERIENCED MACHINE TENDER WANTED on Cylinder Machine making Box Board. State experience and salary expected. Good job. Steady work. Address, Box 4518, care Paper Trade Journal. N-3.

WANTED—Experienced Toilet Paper Operator on a Diets or Hudson Sharp Machine; steady good position, future. Address, Box 4565, care Paper Trade Journal. O-27

POSITION will shortly be opened for first class Engineer, one familiar with Steam and Electrical Development. Must have had experience in Pulp and Paper Mill Work. Man with technical education preferred. Replies will be considered absolutely confidential. Permanent position and good salary. Address, Box 4555, care Paper Trade Journal. N-17

WANTED—An experienced General Superintendent to take entire local charge of a Modern News Mill with Sulphite and Groundwood Mills. Give full personal particulars, details of experience and operating record. Address, Box 4524, care Paper Trade Journal. N-3

WANTED—Manager for Paper Board Mill to be erected in large Eastern City. Investment \$15,000 required. Unusual opportunity. Address, Box 4568, care Paper Trade Journal. N-24.

WANTED—First class Night Superintendent for one Machine Mill in a small Country Town. Married man preferred. Four cylinder Combination 84" manufacturing Asbestos Paper and Saturating Felt. Prefer to have some knowledge of the Saturating end of the business. Good chance for the right man. Only a sober and reliable man need apply. Address, Box 4569, care Paper Trade Journal. N-10.

WANTED—Boss Finisher for High Grade Book Mill. Address, Box 4570, care Paper Trade Journal. N-3.

WANTED—Envelope Man as Factory Superintendent. We have an opening for an experienced and versatile man, who is well qualified to take charge of our New York Envelope and Paper Bag Factory. Mechanical man preferred. State all details, age, salary, etc. Address, Box 576, 205 Seventh Avenue, New York. N-10.

WANTED—Stenographer for New York Office of Tissue Manufacturer. Must have experienced in Mill or Paper Jobbing Office, and capable of taking charge in absence of the manager. Address, Box 4571, care Paper Trade Journal. N-3.

HELP WANTED

WANTED—Machine Tender for Small Mill in New England, making light weight Chip and Wrapping. Must be able to make repairs. Address, Box 4572, care Paper Trade Journal. N-3.

FOR AUSTRALIA—I want to secure a young, married man as Manager of my self-opening bag Plant in Australia. He must be a capable Executive, who has operated Bag Plant and thoroughly familiar with bag making machinery. A mighty good opportunity. Give full details, education, experience, etc., with photograph if possible in first letter. Letter returned. Address, Box 4573, care Paper Trade Journal. N-3.

WANTED—Cylinder Machine Tender on .009 Straw Board. Must be a steady and competent man. Wages \$4.00 per eight hours. Address, The Coshoccon Straw Paper Company, Coshoccon, Ohio. N-3.

WANTED—One (1) Beater Boss, two (2) Machine Tenders and two (2) Back Tenders. Must be absolutely experienced on high grade board, strictly sober and steady. Good job for right man. Two Towers. Address, Box 4582, care Paper Trade Journal. N-10.

WANTED—Chemist, Practical Paper Maker. Experienced in Paper Mill work for a Specialty Mill. Must be able to conduct tests and analyze raw and boiler feed waters and materials entering into the manufacture of Paper. The more practical experience in Paper Making and Machinery the better. State age, experience and salary expected. Address, Box 4583, care Paper Trade Journal. N-3.

MASTER MECHANIC WANTED—An experienced Master Mechanic for a Modern News Mill with Sulphite and Groundwood Mills. Give full personal particulars, details of experience and operating record. Address, Box 4584, care Paper Trade Journal. N-17

SITUATIONS WANTED

SUPERINTENDENT desires position. 20 years' experience on all grades of Combination and Container Board familiar with repairs, maintenance and operation of every department. Knows how to get quality and production. Can furnish the very best of references. Address, Box 4347, care Paper Trade Journal. tt

PAPER SALESMAN, New York City, wants connection with Mill Agency Company. Can produce large amount of business, with right kind of cooperation. Drawing account on commission basis. Correspondence invited with responsible agencies. Address, Box 4503, care Paper Trade Journal. tt.

Superintendent

An up-to-date paper maker 35 years of age. Experienced on high grade box board and test containers, rope papers for sand and sack purposes, also tissues for waxing, crepe and semi-crepe for towels, napkins and toilet. A thoroughly practical man who can step into a mill and make it run, desires a position with a progressive company. Address, Box 4579, care Paper Trade Journal. N-17.

SITUATIONS WANTED

SUPERINTENDENT wishes to make a change from his present position. Have had fifteen years' experience on all grades of Box Boards, Containers, Tests, etc. Familiar with repairs, maintenance and knows how to handle men. Middle aged. Married and can give best of references. Address, Box 4586, care Paper Trade Journal. N-3.

MASTER MECHANIC desires position. Expert Construction, Reconstruction, Installing Equipment and Economical Maintenance. Ground Wood and Sulphite from the log to finished product. Fourdrinier machines making Book, Bond, News and Specialties. Cylinder Machines making Board, Bristols and Tissue Specialties, using water, steam and electric power. Address, Box 4425, care Paper Trade Journal. D-22.

THOROUGH SUPERINTENDENT desires position, experienced on tissues, all grades Crepe, Semi-Crepe, Toilet, Towels, Napkins, Fourdrinier and Cylinder Machines. High grade man on Kraft and Kraft Specialties, Waxing Tissues, plain and colored, Twisting Fibres, A-1 on Colors. Thoroughly understand the conversion of Waxing Tissues and Colored Crepe Papers. Good organizer. References furnished. Address, Box 4431, care Paper Trade Journal. N-3.

WANTED POSITION as assistant Superintendent or Tour Boss. Would consider running Machine. Have had 17 years' experience on Box Board Machines and Combination Boards, and well up on High Test Containers. Address, Box 4499, care Paper Trade Journal. N-3

YOUNG MAN, 24 years old, desires connection with Paper House in New York City or vicinity. Possesses general knowledge of Writings, Bonds, Coarse Papers, etc., also two years' mill experience in all branches of cost accounting. Capable of filling position in Accounting or Sales Department. Address, Box 4475, care Paper Trade Journal. N-17

SUPERINTENDENT or Assistant desires position. Experienced on Grease-proof, Glassine, Waxing Papers and all kinds of Tissues. Address, Box 4557, care Paper Trade Journal. N-10

PAPER BUYER AND CORRESPONDENT desires position. Familiar with all grades, sources of supply, etc. Three years with prominent Paper Exporters. Knowledge of Spanish and Stenography. Address, Box 4558, care Paper Trade Journal. N-3

PAPER SALESMAN desires position. Has handled Printings, Writings, Wrappings and some Specialties. Three years with large Paper House. Address, Box 4559, care Paper Trade Journal. N-3.

SUPERINTENDENT—Man thoroughly experienced in manufacture of Box Board wants position as Superintendent. Excellent color man, understands construction; 25 years' experience. Address Box 4560, care Paper Trade Journal. N-3

EXPERIENCED ENVELOPE AND PAPER-TERIE MAN desires position with an A No. 1 Concern as Superintendent or Foreman. 15 years experience. Thoroughly familiar with all makes of Envelope Machinery and handling of high grade Papereries. Best of references. Address, Box 4574, care Paper Trade Journal. N-3.

SULPHATE PULP—Expert in Mill Operation would like to get in with Mill having trouble or where production and cost is not satisfactory. Address, Box 4575, care Paper Trade Journal.

EXPERIENCED PAPER and Paper Stock Man desires position in Mill or Jobbers Office. Executive and Sales ability. Good accountant. Moderate salary. Married man. Address, Box 4578, care Paper Trade Journal. N-3.

MISCELLANEOUS

TRAFFIC MANAGER—Modern Business requires an efficient traffic manager. A man with ten years' experience as Traffic Manager desires position. Capable of handling all matter pertaining to transportation, qualified to organize this department, excellent character, best of references. Address, Box 4537, care Paper Trade Journal. N-10.

WANTED—2 3-Pocket Grinders, 54" diameter. Ring Oiling. 2 Stone Sharpening Devices. 2 6" Centrifugal Stock Pumps. 1 Pressure Filter, capacity 500,000 gallons, 24 hours. 1 60 lb. Pressure Pump, direct connection to motor. 200 gallons minute, 3 phase, 60 cycle, 600 volts. Address, Box 4544, care Paper Trade Journal. O-27.

WANTED—Three Beaters, preferably iron tub, capacity 1,000 lbs., to 1,500 lbs., double lighter construction without washing cylinders. Also three Jordans, about 20 tons capacity each. Address, Box 4546, care Paper Trade Journal. tf.

WANTED TO BUY—A 48, 50 or 54-inch Paper Cutter, Seybold or Dayton preferred. Give full particulars in first letter. Address, The Paper Novelty Company, Green Bay, Wisconsin. N-10

WANTED—One good sized Heavy Duty Rag Cutter. Give complete details and price with your offering. Oertel Roofing Mfg. Co., East St. Louis, Ill. N-3

For Sale

BEATERS—6 N & W 48x48 rolls, 2 Emerson 48x48, 22' tubs.

CUTTERS—One 52" Sheridan, new model, 38" Guillotine.

CALENDARS—One Board rolls 16x50", one 7 roll open side 84".

EXHAUSTER—One Sturtevant.

FANS—3 Hunberry, 2 Perkins.

JORDANS—One N & W Monarch, One Emerson large size, one Horne, one N & W Pony, with extra plug.

PULLEYS—All sizes.

PUMPS—Two 6" Emerson, one 4" Centrifugal, Law Mch. Co.'s make. 1—Type 4 Gould 5" triplex water pump.

PRESS ROLLS—One pair brand new, one R C 18x80, one Gun Metal 18x81, one 16x75", and others.

RAG CUTTERS—Four No. 2 Daniels, one Perkins.

REELS—One 2 bowl 56", one 2 bowl 58".

ROTARIES—Two 7'x22".

SLITTERS—One 86" P & J, one 40" Kidder, one 104" B & C.

WINDERS—One 86" P & J, with slitters and rewinding shaft, for immediate shipment.

SAVE-ALL—One North.

WET MACHINES—5 N & W, with cutoffs, moulds 30x52", three extra cylinder moulds for these machines.

MILLS MACHINE COMPANY

Lawrence, Mass.

U. S. A.

MISCELLANEOUS

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A SECOND-HAND CREPE MACHINE ADAPTED FOR COLORED CREPES. STATE WIDTH OF MACHINE, DIAMETER OF DRIER, MANUFACTURER'S NAME AND PRICE. ADDRESS BOX 4580, CARE PAPER TRADE JOURNAL. N-17

FOR SALE

FOR SALE—14 Calendar Rolls, 58" face, 8" to 16" diameter. 2 No. 1 Claffin Engines. 1 small Jordan Engine. 1 6" Horizontal Water Pump. 2 Air Fans. 5 Dryers, 48" diameter and 120" face, complete with frames and gears. Complete triple-deck frames for 44 Dryers. Will arrange terms to suit. Chesapeake Paper Board Co., Baltimore, Maryland. N-10

FOR SALE—Paper Cutting Plant. One 40" Kidder Slitting Machine, one 43" Hamblet Sheeter and one 38" Jones Undercut Powder flat cutter Machine. Address, P. O. Box 300, Emerson, New Jersey.

FOR SALE—Roofing and Saturating Machines, 72"x36" wide. Chilled steel rolls. Also Painter Mixing Machine, Grinders, etc. Address Box 4310, care Paper Trade Journal. tf

FOR SALE

Wholesale Paper Concern handling general line, both Coarse and Fine Papers and Paper Specialties. Established fifteen years. Doing a growing business with established trade and territory. Excellent facilities, five-story modern brick building, private side track, good equipment. Location especially suitable to Eastern markets. Address, Box 4581, care Paper Trade Journal. N-3.

FOR SALE

FOR SALE—9 Dryers, 28" x 53", complete with frames, felt and rolls, gears, two cone pulleys and steam connections. Address, Box 4336, care Paper Trade Journal. tf

FOR SALE—Two Hoffman Couch Rolls, seventy-eight inches in diameter, need re-covering. Address, Box 4545, care Paper Trade Journal. N-10.

COAL—Moshannon and "E Seam" bituminous coals, low sulphur, low ash. Lowest freight rate east and north. \$2.50 net ton, f. o. b. mines. Halden-Kelley Coal Company, 209 Market St., Clearfield, Pa. tf.

SWEDISH PRINTING PAPER: good quality, below market price. Rolls—25¼ inch broad, 400 tons. Sheets 22¼ x 34 inches. 89 tons, and 36¼ x 55 inches, 116 tons. Address, Box 4563, care Paper Trade Journal.

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FOURDRINIER PAPER MACHINE: One 112", one 96", one 72".

FOURDRINIER PARTS: Pusey & Jones 137", 118", 112", 100".

PRESS PARTS FOR PAPER MACHINES: Pusey & Jones Bell Crank housing two sets 18" x 114", three sets 18" x 110", two sets 18" x 96", Black & Clawson Swing Arm housings with rolls.

DRYERS: Four 48" x 111", sixteen 48" x 106", ten 48" x 68", one 84" x 67".

MARSHALL DRIVES: 8 Black & Clawson self-contained stand with friction clutch cone pulley and 6" x 7" mortise gears. Mortise gears and pinions for Pusey & Jones Marshall drives 5" to 8" face.

CHILLED CALENDERS: One 66" face, five roll, one 41" face, five roll.

DILLON DOCTORS: for Machine Calenders 60" to 120" face.

SLITTERS AND WINDERS: One 120" Warren, one 82" Pusey & Jones two drum, one 108", 44", 36" Kidders.

REELS: Pusey & Jones two drum upright 84" to 114".

BEATERS: Six 72" x 42" Noble & Wood, four 66" x 42" Noble & Wood, equipped with three-cylinder washers; one Dilts 62" x 50" iron tub, one Jones 62" x 52", eight Horne 36" x 36".

JORDANS: One Wagg Majestic, three No. 2 Dillon Improved, one Large Horne, five Monarch, one Pony Monarch, two Pope Brushing Engines.

SCREENS: Four 12-plate open-side Packer.

STUFF PUMPS: Deane Triplex 8" x 12", Gould Triplex 8" x 10", Sandusky Triplex 4" x 6".

REVOLVING SHEET CUTTER: One 104" Horne, one 84" Clark, one 74" Finlay, one 50" Hamblet Diagonal, two 42" Finlay.

WET MACHINES: Four 72" Bagley & Sewall Hydraulic.

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TOILET PAPER CONVERTER, located Central West, desires permanent paper mill connection. Particularly interested in 10lb cylinder tissue, finished and unfinished. Highest rate credit and good record for fair dealing. Address 4567, c/o Paper Trade Journal.

GIBBS-BROWER BULLETIN

PAPER MILLS FOR SALE IN THE EAST

Manila, Fibre, Colored Textile, Kraft and Colored Specialties Mill. Two Fourdrinier Machines trimming 68 inches. Twenty-five tons, 24 hours. Also Pulp Mill, Grinders, digesters and wet machines. Ground wood 12 tons, sulphite Fibre 7 tons, 24 hours. 600 horse water power, purest water, also steam and electricity. Mill on two railroads with private sidings.

Crepe towel and Toilet Mill. Fourdrinier Machine trimming 68 inches. 7 tons 24 hours. 300 horse water power. On main line railroad. Excellent location.

Chip, News, Manila lined and Container board specialties mill. Two six cylinder machines trimming 86 and 94 inches. 100 tons 24 hours. Water and Steam.

We offer the finest developed water power left in New England, 400 horse water power. Fifteen acres of land, eighteen buildings, store-houses and dwellings. On main line Boston and Maine railroad. All there but the paper mill. Will sell at sacrifice for quick turnover. We offer used Fourdrinier paper machine trimming 72 inches. Complete and in good condition. Immediate delivery and reasonable price.

IN THE WEST

Container, liner and combination Box Beard Mill. Two 5 cylinder machines. Trimming 70 and 84 inches, 45 tons 24 hours, 650 horse water power, steam and electricity. On two large railroads with private sidings.

Straw Kraft, Butchers' Fibre, sulphite wrapper and car Linings Mill. Fourdrinier machine trimming 61 inches. 12 tons 24 hours. Steam. Railroad Sidings.

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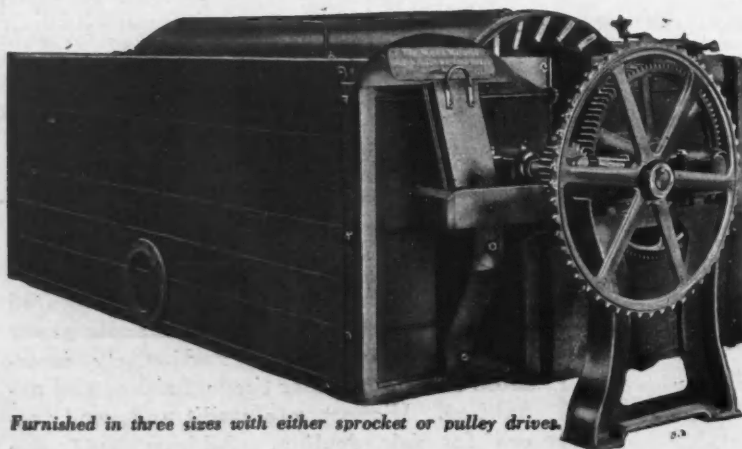
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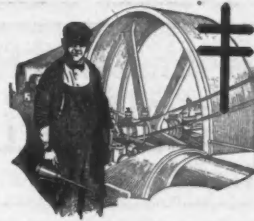
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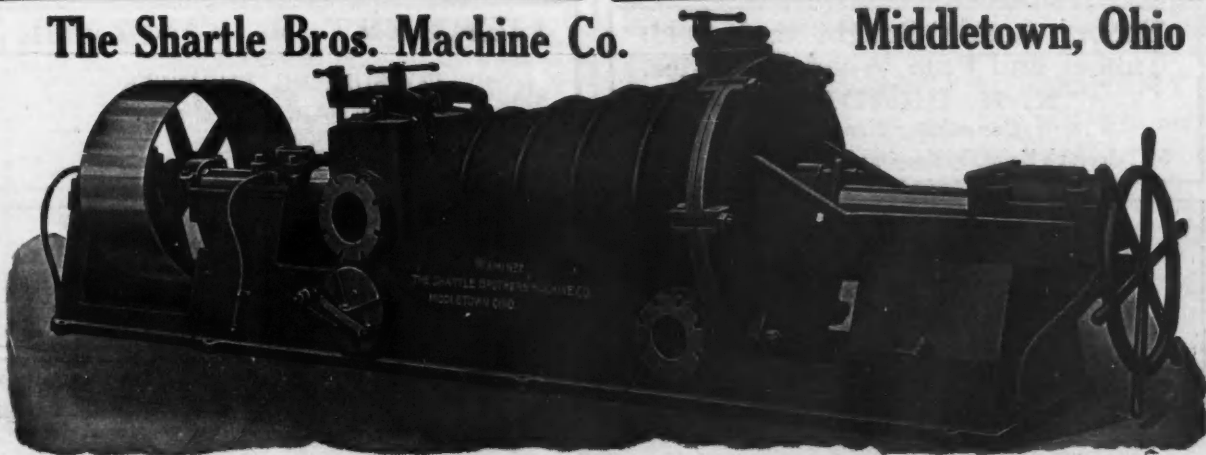
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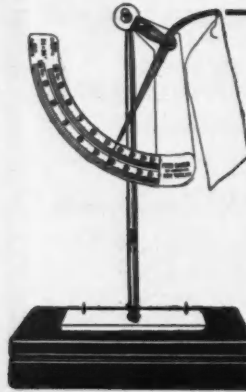
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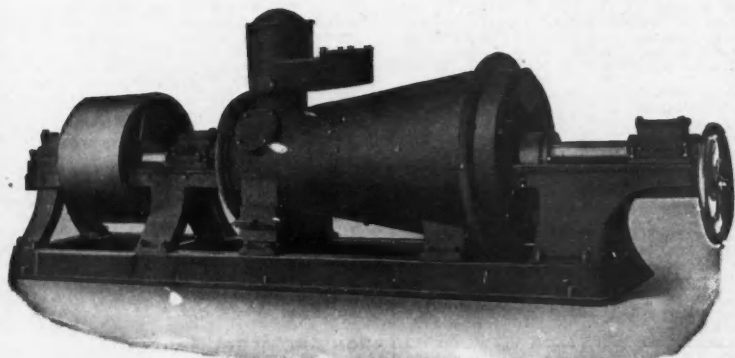
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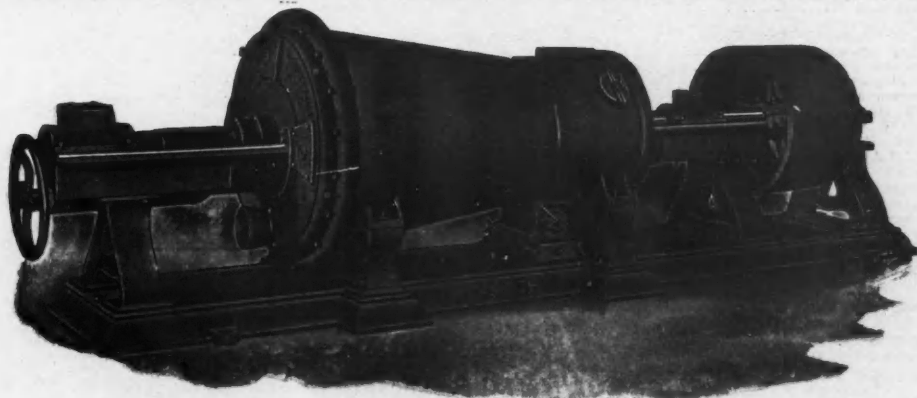
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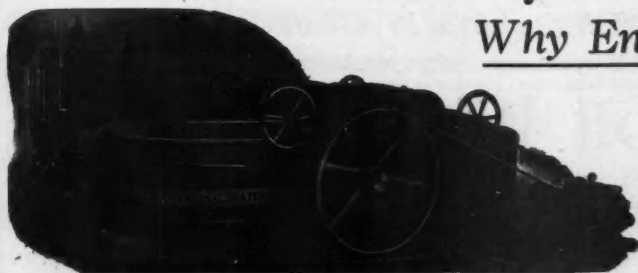


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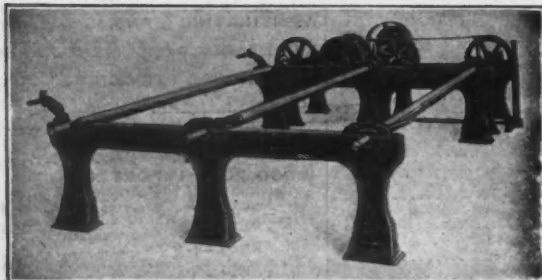
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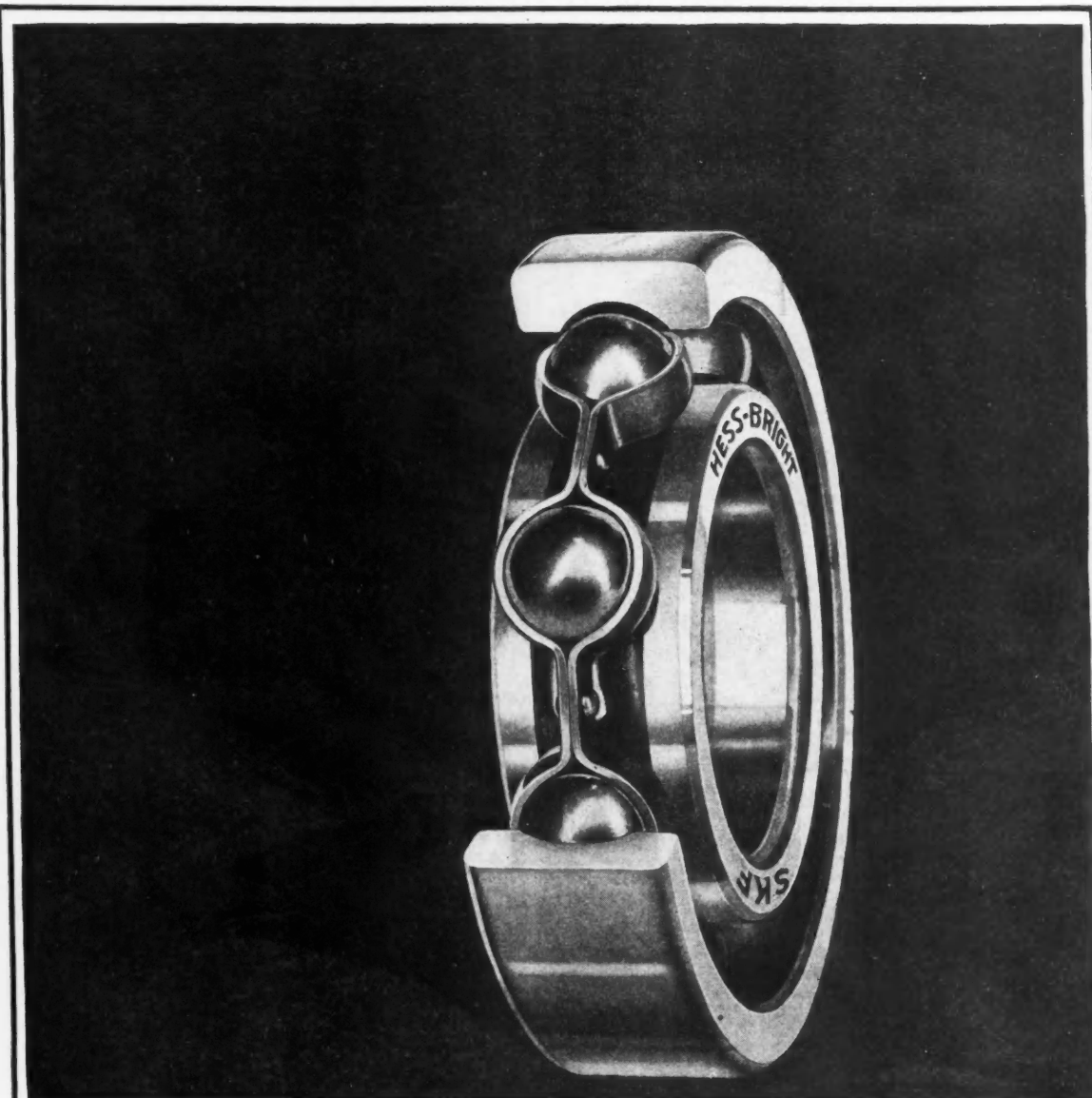
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