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# PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY.

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NEW YORK AND CHICAGO, OCTOBER 30, 1919

Per Annum, \$4.00  
 Single Copy, 10 Cents

## FOR FOREIGN TRADE

The organization with thirty years' experience back of it, selling paper and printers' supplies exclusively in the principal markets of the world.

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**Paper Manufacturers**  
 Paper and Cardboards of all kinds.  
 Carload lots and time contracts solicited.  
 We have the largest stock of "Seconds" carried in the West.

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**PAPER and WOOD PULP**  
 RYDÖ STRONG SWEDISH UNBLEACHED SULPHITE  
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ANILINE COLORS  
 and DYESTUFFS for Paper Mills

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*Lagerloef Trading Co., Inc.*

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Correspondence Invited!

All Kinds **WOOD PULP** Every Description

Washed, Pulverized and Crude Grades  
 "American Clays"

**R. T. VANDERBILT CO.**  
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"Blue Ridge"—Pulverized Clay—"Dixie"  
 Mines in Virginia, Georgia, So. Carolina,  
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**Bathurst Lumber Co. Ltd.**  
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 Bleaching Sulphite**

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**ASBESTINE PULP** \* **FILLER**  
 90% Retention

REG. U. S. PATENT OFFICE

# PAGE 19!



**Diamond-F**

**PROTECTIVE PAPERS**

GLASSINE  
 VEGETABLE PARCHMENT

PARCHMOID  
 GREASEPROOF

*Diamond Fibre Receptacles of all kinds*

**Diamond State Fibre Company**

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WRITING  
WRAPPING  
SPECIALTIES

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CASE LINING & WRAPPING PAPERS

Ask For Samples of Our

DIAMOND GRADE FOR PAPER  
MAKERS

Stronger—Safer—Cheaper Than Waxed  
Papers

Factory and Home Office, Milwaukee

## Cutting Dies

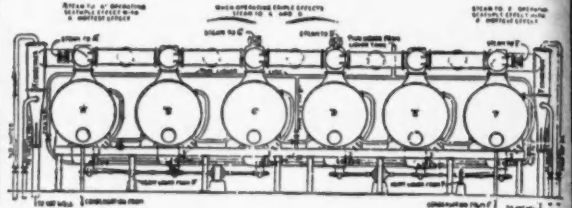


We have been in business since 1849 and are exceptionally well fitted by experience, with equipment and highest class of workmen, to furnish dies for cutting paper, etc., for all purposes.

For Dieing Out Envelopes, Labels, Lithographs and Advertising Novelties, Boxes, Wrappers, Gaskets, Toys, Paper Napkins, Drinking Cups, etc., etc.

**The Hoggson & Pettis Mfg. Co.**  
New Haven, Conn., U. S. A.

## Two Lillie Triple Effects Converted Into a Sextuple Effect



IN recent advertisements—we have told about such exclusive Lillie advantages as Film Evaporation, Mechanical Circulation, Reversibility, minimum incrustation troubles, ability to increase the size of each unit, etc.

HERE is another important advantage: the above drawing shows how two old model triple Lillie effects were placed in line and converted into a Vapor Reversing Sextuple Effect.

THIS sextuple effect is operated with steam in the hot effect at about four pounds pressure. It works practically without incrustations on the tubes.

BEFORE the combination was made, the non-vapor-reversing triple effects gave about the heaviest incrustations we have ever seen. Similar incrustations were obtained in a vertical tube double effect when evaporating the same liquors.

THE Lillie is the most efficient of all evaporators. Comparative tests prove that it is far superior in every respect.

GIVE us your evaporation requirements in detail.

**WHEELER CONDENSER & ENGINEERING CO.**  
CARTERET, N. J.

Under agreement with the Sugar Apparatus Mfg. Co.—S. Morris Lillie, Pres.—  
Owners of the Lillie Evaporator patents.

41

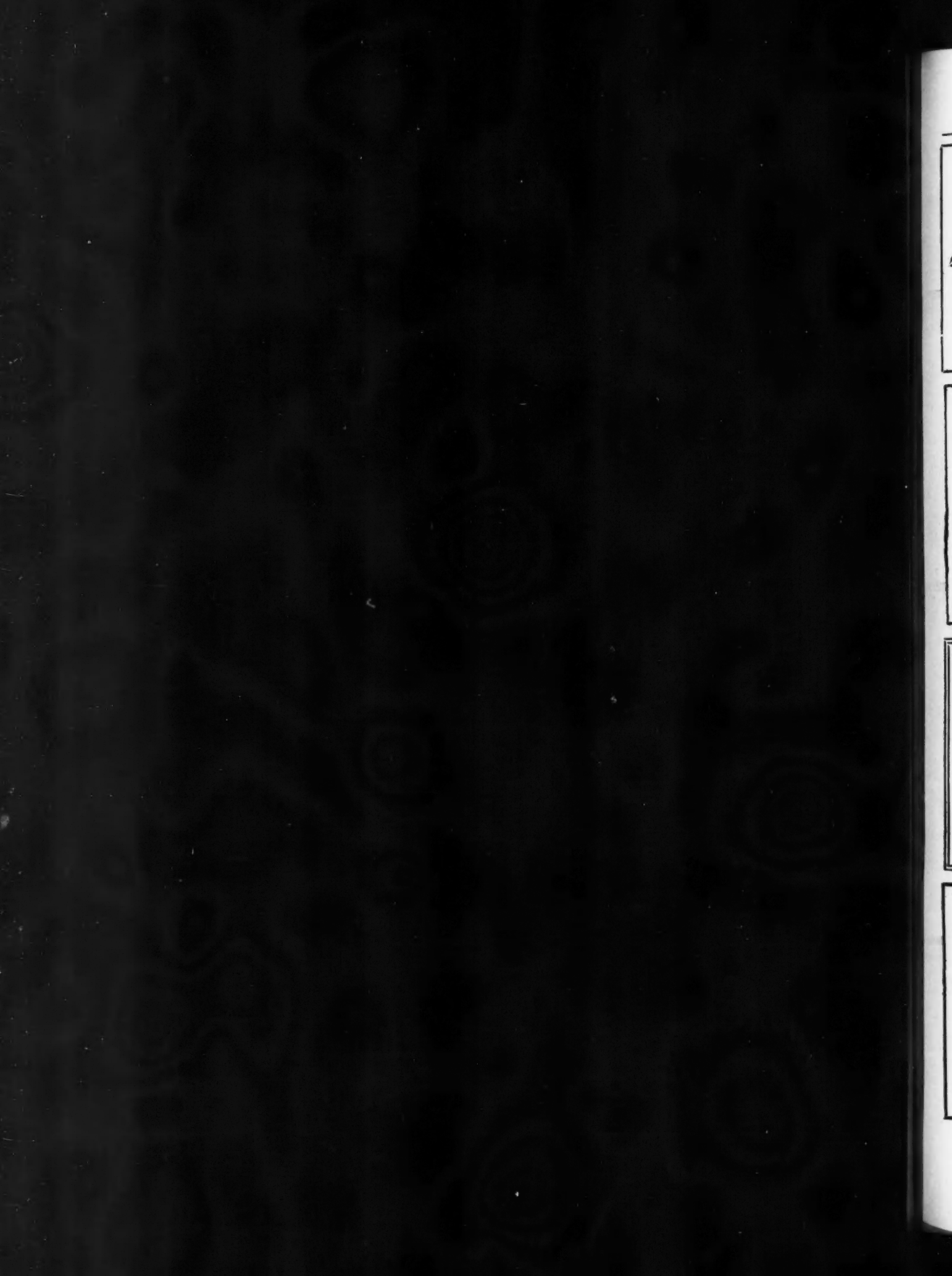


## The Lombard Barker Attachment

can be applied to any make of Disc Barker. No matter what Disc Barker you may be operating—the Lombard-Barker attachment will add to its efficiency—saving in wood—easy operation.

**WATERVILLE IRON WORKS**  
Waterville, Maine









**QUALITY  
and  
SERVICE.**

**RHINO  
GUMMED BOX STAY**

Satisfactory and economical to use. It sticks instantly and permanently. It saves time and money. Yardage Guaranteed.

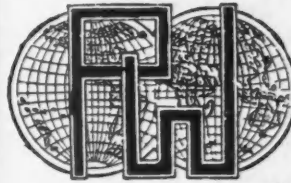
*Send for sample roll.*

**Nashua Gummed & Coated  
Paper Company**

Nashua New Hampshire

**Parsons & Whittemore, Inc.** 299 Broadway  
New York City

**P**aper and Pulp Exporters



**A**gents for Leading  
Paper Manufactur-  
ers, McNamee  
Clays, Etc.

**N**one but the best  
grades.

**D**omestic Export  
and Import.

**W**ood Pulp — All Grades  
Paper Mill Supplies.

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**"EXCELSIOR"**

FELTS AND JACKETS

FOR EVERY GRADE OF PAPER

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1863

1919

*Seamless Felts for  
fast running*

*Satin style Felts  
for fine finish*

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White and Tinted Bristols—White  
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TAG BOARD, BRISTOLS, ETC.

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Direct all correspondence to Rochester, N. Y.

Super Calenders  
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*Successors to the Granger Foundry & Machine Co.*

**The Textile-Finishing Machinery Company**

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Made by Port Huron Sulphite & Paper Co., Port Huron, Mich.

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Cotton Rags—New Cuttings  
Bagging—Rope—Waste Paper

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To work by the Sun  
Means twice the work done.



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

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## SWENSON EVAPORATOR CO.

CHICAGO

Swenson Evaporators are particularly desirable for export shipment. Our Standard Swensons are built in sections of convenient weights and measurements. They are comparatively simple in erection and repairs are negligible.

We pay particular attention to boxing (We do not crate) using high-grade two-inch timber lumber, and we have found our extra efforts to please are appreciated. We recently received a cable from a London firm in effect—"Shipment must be boxed as before."

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MANUFACTURERS OF  
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THE PAPER INDUSTRY**

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FUCHSINE  
SAFRANINE  
BASIC BROWN  
METHYLENE BLUE  
SOLUBLE BLUE  
ALKALI BLUE  
BASIC BLUE  
AURAMINE  
FAST DIRECT COLORS  
PAPER SCARLETS  
" YELLOWS

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*Offices:*

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N. J.; San Francisco, Cal.; Glens Falls,  
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Established 1855  
All Kinds of Paper  
Telephone Worth 50, 51, 52, 53  
448-450 Pearl Street

New York City

New York

**You Are Judged by  
Your Paper—**

Paper talks louder than you think it does. Some paper talks itself into the waste basket. Don't let yours do that!!

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Dealers,  
Importers and  
Exporters of All  
Kinds of Paper

When you choose paper, make it express your individuality. Make sure it will create a favorable impression when received by strangers. Your printed matter—stationery, booklets, catalogues, etc., will carry more weight if printed on the particular O'Meara stock made for each purpose. Greater attention will be directed to your product.

News

Book

Litho

Bond

Ledger

Coated

Music

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Label

Kraft

Writing

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Carbon

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Colored

Tissues

Pattern

Interleaving

Cardboard

and

Specialties

**Dealers and  
Manufacturers**

Our reputation as manufacturers and dealers has been zealously upheld for over a half century. We have been specialists in the better grades of paper since 1855. Our steady growth has been the result of fair dealing with patrons. Today we have one of the finest and most complete stocks in the East.

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Our Export Department is at your service, and we are anxious to sell any mill's product who will follow closely the essentials of export packing. The foreign market needs your paper. Is it worth your while to concentrate your sales through paper specialists who sell paper only?

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An experience of over Fifty years catering to the requirements of Paper mills qualifies us to supply your every need. Our mill supply department is in charge of men who are capable of rendering prompt and efficient service. Their practical knowledge is at your disposal at all times.

**THE WATERBURY FELT CO.****FELTS and JACKETS**

For Every Grade of Paper and Pulp

Correspondence and Orders Solicited

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**WOOD PULP**

OF ALL KINDS

and

PAPER MILL SUPPLIES

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21 East 40th Street, New York City**Importers of Chemical Pulp**

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Agents for Kellner Partington Paper Pulp Co., Ltd.  
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**THE FINEST WIRES**

FOR TISSUE AND FINE GRADE PAPERS

**HIGH-GRADE****Sulphite Wrapping Papers**

WATER FINISH

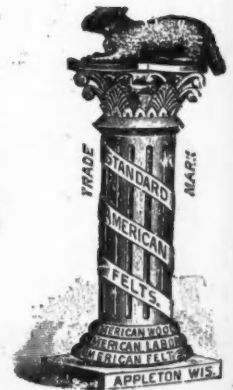
DRY FINISH



Bayless Manufacturing Corporation

527 Fifth Avenue, New York

Paper and Pulp Mills: AUSTIN, PENNA.

**APPLETON FELTS AND JACKETS**Manufactured by  
**APPLETON WOOLEN MILLS, Appleton, Wis.**



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STANDARD QUALITY  
LOWEST PRICES

FOR EARLY OR LATER DELIVERIES

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# SWEDISH PULP

We are the representatives in the  
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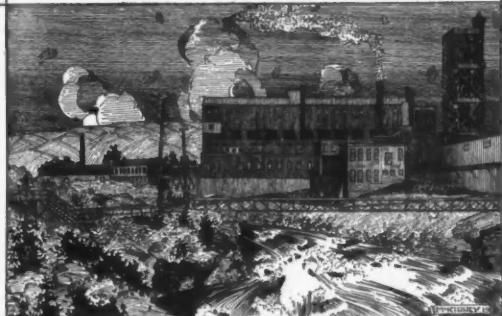
HELLEFORS BRUKS, AKTIE BOLAG  
including "LAXA" Highest Grade, Easy  
Bleaching Sulphite.

HELLEFORS Prime, Easy Bleaching  
Sulphite, "HELLEFORS" and "FRED-  
RIKSBERG" Strong Sulphate (Kraft).

*Ask for our samples and prices.*

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Daily Capacity of 600 Air-Dry Tons

The extent  
of our production of

High Grade  
**BLEACHED**  
Sulphite Fibre

insures uniform quality, prompt  
shipments and market prices

Pulp Division  
**BROWN COMPANY**  
*founded 1832*  
PORTLAND MAINE



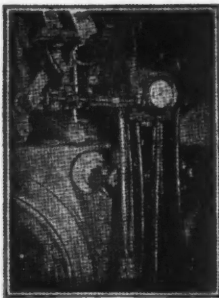
Mill Wrappers

Drug Wrapping

*Bermico*  
*Sheathing Paper*  
**NIBROC**  
Kraft and Bond

Paper Division  
**BROWN COMPANY**  
*founded 1832*  
PORTLAND MAINE

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



**WE ARE SAFE IN OUR PROPOSITION**

*YOU'LL MAKE NO MISTAKE IN ACCEPTING IT*

**PICKLES DRYING REGULATOR**

will do everything we claim for it and more. The test costs you nothing until you are satisfied. Many mills tried one and now have every machine equipped. Write for list of users and other information.

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ALL ARE GIVING SATISFACTION ON

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THESE FELTS ARE WOVEN ENDLESS

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



For  
Deane of Holyoke  
Condenser Pumps

*Voorhees Rub-Steel Valves*

**ARE THE BEST  
IN PAPER MILL SUCTIONS**

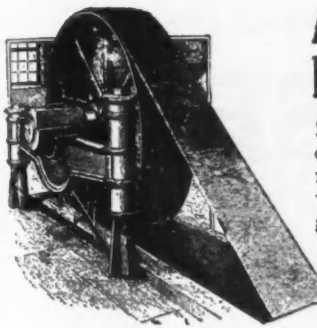
Spring guides for angular positions.  
Brass bushed stud-hole protection.  
Soft and toughest rubber seating with

**That Backbone of Steel**

**VOORHEES RUBBER MFG. CO.**

18-50 Bostwick Ave.

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SparOak is a two-in-one belt combining rugged strength with unique pulley-grip.

## SparOak Belting

Two kinds of leather enter into a SparOak Belt. The outer ply is oak tanned, cut from the best selected center stock. The ply next the pulley is Graton & Knight Spartan leather, tanned to give pliability and traction power unequalled by any other material.

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OAK LEATHER TANNERS AND BELT MAKERS  
Branches and Distributors in All Principal Cities.

### Graton & Knight

Standardized Series  
**Leather Belting**

Made by us for belting use

**BOLTON QUALITY**

**REMEMBER**

**BOLTON QUALITY**

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**BARKER KNIVES,  
BEATER BED PLATES,  
BEATER FLY BARS,  
CHIPPER KNIVES,  
JORDAN ENGINE FILLINGS,  
PAPER TRIMMING KNIVES,  
RAG CUTTER KNIVES,  
ROTARY CUTTER KNIVES,**

of every description used in Paper and Pulp Mills.

Designed to meet specific needs and of uniformly High Grade.

**John W. Bolton and Sons, Inc.**  
LAWRENCE, MASS.

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BARKER KNIVES

BEATER PLATES

JORDAN FILLINGS

**N.O.C.**

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**N.O.C.**

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**SCANDINAVIAN PULP**

AND EXPORTERS OF

**AMERICAN-MADE PAPER**

**Kalamazoo Representative**

Cale B. Forsythe

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pulp and paper sales

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Manufacturers of  
LOFT DRIED PAPERS  
LEDGERS  
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WRITING PAPERS

Mill: North Wilbraham, Mass.  
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THE WORD AND THE MARK  
"HYTOR"

This stands for the Great Superiority, High Efficiency, Durability and Reliability of the NASH HYTOR VACUUM PUMPS, NASH HYTOR AIR COMPRESSORS AND JENNINGS HYTOR DRYER EXHAUST UNITS.

*For full information and particulars address*

**Thomas H. Savery, Jr.**  
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Especially prepared for

**PAPER COATING**  
"N. 3" & "N. 6"

**PAPER SIZING**  
"S. 3" & "S. 6"

Uniformity of Quality  
Guaranteed

Write for Samples and Quotations to

**Aldgate Casein Works**

Proprietors  
Nieuwhof, Surie & Co., Ltd.

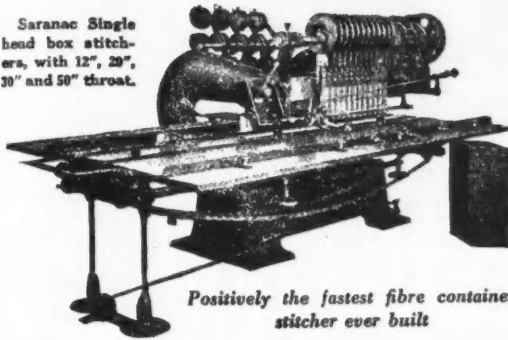
Head Office  
5, Lloyds Avenue, London, E.C.3

Telegraphic Address Suricodon England



25 to 40 shipping containers per minute can be made on a  
**Saranac Automatic Multiple Head Stitcher**

Saranac Single head box stitchers, with 12", 20", 30" and 50" throat.



Positively the fastest fibre container stitcher ever built

IT is equipped with twelve stitching head so that any number from 1 to 12 staples can be driven at one time. Either a single or double row of staples, or single row with the tie stitch are automatically driven. It takes less than five minutes to change from the largest to smallest size containers.

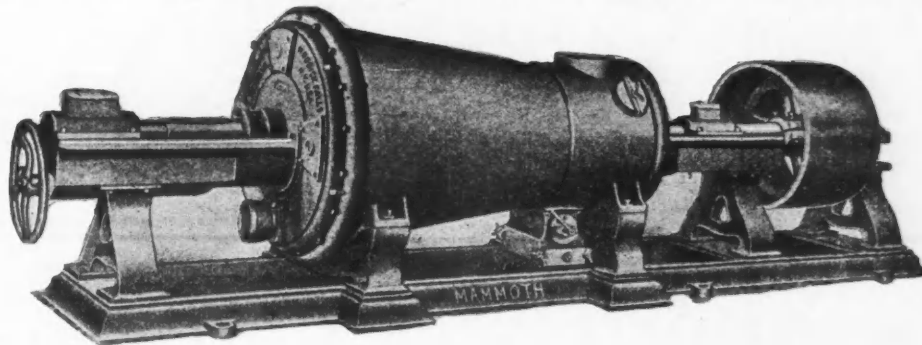
*Write for Full Particulars*

We also manufacture Bottom Sealing Machines.

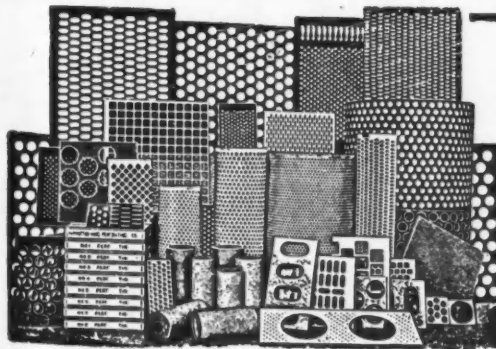
**Saranac Machine Company**  
 Benton Harbor, Michigan

**WE MAKE  
 BEATERS AND  
 JORDANS OF  
 QUALITY**

**SIX SIZES OF  
 JORDANS,  
 BEATERS,  
 FROM 3/4 LBS.  
 TO 3000 LBS.**



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



**PERFORATED  
 METALS**

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

FOR

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

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GET IN  
THIS CIRCLE  
by handling  
"THE BRANDS THAT  
SELL THEMSELVES"  
Look for our name and trade  
mark on every roll. None  
genuine without it.  
The Peerless Mfg. Co.  
NORRISTOWN,  
PA.

ARABIA  
TOILET PAPER

AROLA  
TOILET PAPER

TOKALON  
EXTRA FINE TOILET PAPER  
100 SHEETS

YOKOTO

Superto  
TOILET

THE PEERLESS MFG. CO.  
TRADE MARK

Bleached and Unbleached  
**WOOD PULP**  
of every description

**M. GOTTESMAN & COMPANY**

18 East 41st Street

INCORPORATED

::

NEW YORK, N. Y.

Established 1886

**1872**

**1919**

*We are prepared to deliver promptly in any desired quantities the following:*

- AURAMINE
- BASIC GREEN
- CHRYSOIDINE R
- CHRYSOIDINE Y
- METHYL VIOLET
- ORANGE
- BASIC NEWS BLUE
  
- BISMARCK BROWN
- PULP COLORS
- VEGETABLE TALLOW
- SODA ASH
- CAUSTIC SODA
- CASEIN
- BLEACHING POWDER
  
- STEARATE OF CALCIUM
- STEARATE OF ALUMINA

**A. KLIPSTEIN & COMPANY**

644 Greenwich St. New York City

**Craig-Becker Company**

*Incorporated*

52 Vanderbilt Avenue

New York City

Bleached                  Easy Bleaching

Unbleached Sulphites

Spruce and Poplar Ground

Wood Pulp

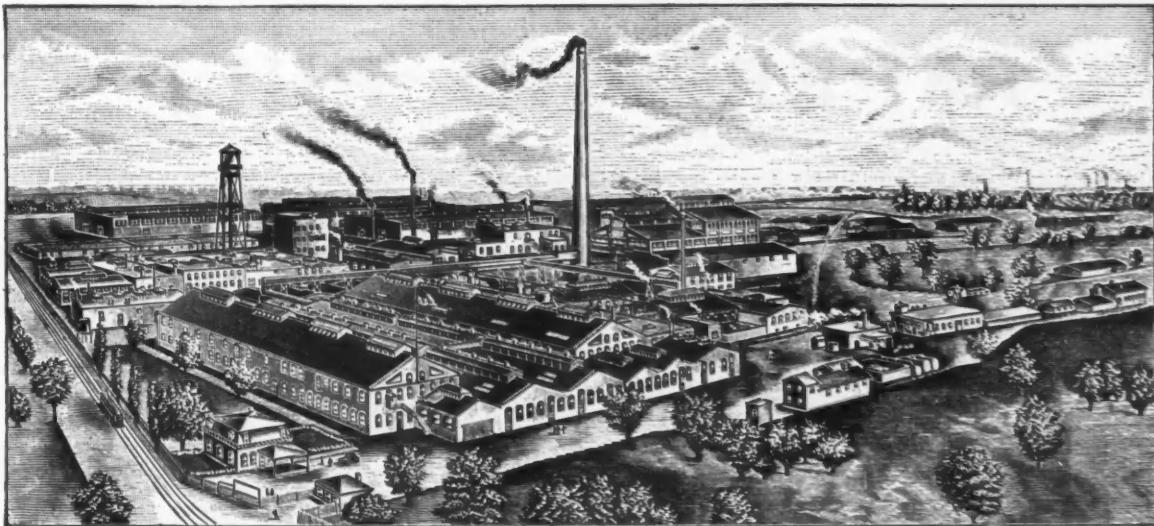
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*Export*

We Supply a Complete Line of

**Colors for Papermakers**

OUR LABORATORIES ARE AT YOUR SERVICE



WORKS IN NEWARK, N. J.

**THE HELLER & MERZ CO.**

BOSTON

CHICAGO

NEW YORK

PHILADELPHIA

## Wood Plugs



For paper rolls, made to pattern under shop names in four sizes as follows: **CARD** 3"; **MANILLA**, 2 $\frac{3}{4}$ "; **NEWS**, 2 $\frac{1}{2}$ "; **DRUG**, 2 $\frac{3}{8}$ "; 1 $\frac{3}{4}$ " in length, having 1" hole, and tumble polished when shipped. You should, if possible, adjust your needs to these stock sizes, with prospect of prompt shipping in carlots or less, thereby avoiding serious delays in waiting for something special. Samples cheerfully furnished.

**O. L. BARTLETT**  
Mound City, Ill.

## SILCO LUBRICANT

For Calender Rolls, Gears and Machinery of Every Description

**M**ADE from a highly refined petroleum base. Contains no animal fats, acid, alkali, water nor any ingredient injurious to metals.

Thoroughly lubricates all bearings and parts; forms a film, adheres to and follows the gears, or surfaces, cushioning and protecting from friction and undue wear on points of contact.

Resists heat, steam, water and rust.

Is adhesive and cohesive; does not leak, drip, waste nor throw out, used in the proper consistency. Lubricates perfectly under extreme conditions.

Furnished in standard and special consistencies to meet every requirement.

*Sample and literature upon request.*

**United Lubricants Company**

of New York, Inc.

241 East 136th St. New York, U. S. A.

## HART TRADING CO., Inc.

Tribune Building

New York City

Exporters and Importers

## PAPER AND PULP

*Exclusive Sales Agencies*

### DOMESTIC

Westfield River Paper Company, Russell, Mass.—grease proof, parchment and glassine papers.

### FOREIGN

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# PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY

## FORTY-EIGHTH YEAR

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## STATISTICS OF WOOD PULP FOR MONTH OF SEPTEMBER

Tabulation of Production Shows Pulp Used by the Company Producing It, Shipments to Outside Concerns and Stocks of Finished Pulp in Tons of 2,000 Pounds, on an Air Dry Basis, for September, 1919, Compared with September, 1918—Ground Wood Mill Stocks Equalled Slightly More Than 30 Days Average Output—News Grade Sulphite Mill Stocks Equalled Slightly More Than 8 Days Average.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., October 29, 1919.—In connection with the Federal Trade Commission's current statistics on the paper industry a summary of the monthly reports from manufacturers of wood pulp and other kinds of pulp used in paper making is submitted herewith for the month of September, 1919. The table shows the kind of pulp, the stocks, production, pulp used and shipments for the month. The pulp shipped during each month represents only pulp shipped to a concern different from the one producing it. Loss of production is shown by giving the idle machine hours reported by each company for each kind of pulp.

### Pulp Production

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

	No. of mills	On hand first of month	Production for month	Used during month	Shipped during month	On hand end of month
<b>Ground wood pulp:</b>						
September, 1919..	159	153,505	91,648	105,546	8,116	131,491
September, 1918..	162	143,472	85,778	105,187	*	124,063
Average.....			109,350			135,807
<b>Sulphite, news grade:</b>						
September, 1919..	62	20,589	64,064	55,523	9,724	19,406
September, 1918..	56	17,260	60,423	62,037	*	15,646
Average.....			57,050			19,123
<b>Sulphite, bleached:</b>						
September, 1919..	30	11,593	46,412	24,093	23,346	10,566
September, 1918..	31	3,504	42,136	41,612	*	4,028
Average.....			38,250			7,365
<b>Sulphite, easy bleaching:</b>						
September, 1919..	8	1,624	5,935	3,457	2,207	1,895
September, 1918..	10	782	6,990	6,824	*	948
Average.....			6,625			1,567
<b>Sulphite, Mitscherlich:</b>						
September, 1919..	7	1,503	7,445	4,234	3,042	1,672
September, 1918..	8	1,223	6,628	6,605	*	1,246
Average.....			6,250			1,573
<b>Sulphite pulp:</b>						
September, 1919..	20	5,638	16,258	9,944	5,311	6,641
September, 1918..	21	1,302	14,080	14,191	*	1,191
Average.....			11,825			3,149
<b>Soda pulp:</b>						
September, 1919..	27	7,063	34,437	19,266	15,358	6,876
September, 1918..	27	3,690	29,822	29,820	*	3,692
Average.....			28,850			5,132
<b>Other than wood pulp:</b>						
September, 1919..	5	386	716	835	85	182
September, 1918..	6	111	884	767	*	228
Average.....			850			182
<b>Total for all grades:</b>						
September, 1919..	...	201,901	266,915	222,898	67,189	178,729
September, 1918..	...	171,344	246,741	267,043	*	151,042
Average.....	...	...	259,050	...	...	173,868

\* Included in pulp used.

NOTE.—A slight variation will be noted between the monthly reports of August and September in the matter of the stock on hand for each grade on account of corrections received from the mills.

Total stocks of all grades of pulp in the mills on September 30th amounted to 178,729 tons. Stocks of easy-bleaching sulphite, sulphate pulp and Mitscherlich sulphite increased

slightly during the month. There was a decrease during the month in the stocks of all other grades.

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

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

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

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

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

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

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

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

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

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

### Loss of Production

The number of grinders and digesters showing lost time during the month of September in operating mills was 1302. These figures do not include the machines in four mills that were in operation during September chiefly on account of repairs, lack of power and a strike. The number of hours lost for various reasons is shown in detail in the following tabulation. The total time lost in August is also shown by grades and reasons for purposes of comparison:

GRADE	Lack of power	Repairs	Other reasons	Total Sept.	Total August
<b>Ground wood:</b>					
Number of grinders....	674	340	40	1,054	909
Total hours idle.....	219,662	70,769	7,924	298,355	314,918
<b>Sulphite, news grade:</b>					
Number of digesters....	60	26	41	127	66
Total hours idle.....	24,908	2,419	2,296	29,623	7,782
<b>Sulphite, bleached:</b>					
Number of digesters....	12	33	5	50	22
Total hours idle.....	819	1,767	1,157	3,743	2,077
<b>Sulphite, easy bleaching:</b>					
Number of digesters....	0	4	0	4	18
Total hours idle.....	0	306	0	306	2,547
<b>Sulphite, Mitscherlich:</b>					
Number of digesters....	0	7	0	7	15
Total hours idle.....	0	1,345	0	1,345	1,918
<b>Sulphate pulp:</b>					
Number of digesters....	0	9	3	12	33
Total hours idle.....	0	1,183	1,800	2,983	2,603
<b>Soda pulp:</b>					
Number of digesters....	2	13	28	43	59
Total hours idle.....	48	3,459	*2,697	6,204	7,054
<b>Other than wood pulp:</b>					
Number of digesters....	0	1	4	5	7
Total hours idle.....	0	24	1,473	1,497	2,426
<b>Total number of grinders and digesters—September</b>	748	433	121	1,302	.....
<b>Total hours idle for all grinders and digesters—September</b>	245,437	81,272	17,347	344,056	.....
<b>Total number of grinders and digesters—August</b>	746	245	138	.....	1,129
<b>Total hours idle for all grinders and digesters—August</b>	284,197	34,417	23,311	.....	341,925

\* Included 2,241 hours due to labor conditions.

### Groveton Company to Open Boston Office

BOSTON, MASS., October 27, 1919.—T. K. Davis, representing the Groveton Paper Company, Inc., of Groveton, N. H., will open a new office at 45 Milk street on November 1.

## PULP MILLS TO BE STARTED BY THE PROCTER & GAMBLE CO.

**Well-known Soap Concern is Reported to be Making Arrangements to Erect One Plant at Memphis, Tenn., and Another at Augusta, Ga., to Make Chemical Pulp from Cotton Linters—Procter & Gamble Co. Will Operate Through Its Subsidiary Concern, the Buckeye Cotton Oil Co.—Educational Work to be Undertaken for Paper Mill Workers in Dayton, Hamilton and Middletown.**

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, OHIO, October 27, 1919.—Word comes from Cincinnati that the Procter & Gamble Company will erect two paper mills—one to be located at Memphis, Tenn., and the other at Augusta, Ga. Each mill will have a capacity of 75 tons of chemical pulp manufactured from cotton linters into a high-grade pulp for shipment to northern paper mills.

Located at Ivordale, in the extreme southern section of the Miami Valley, the Procter & Gamble plant is one of the show places of this part of the country. The firm always has been recognized as one of the most progressive of its kind in America, having been among the first to share profits with its employees. To-day hundreds of employees hold stock in the well-known soap manufacturing concern.

Much interest has been aroused in paper mill circles by the report as it may mean much to this widely-known paper producing section. The manufacture of paper stock from cotton linters, declared by experts recently to be possible and advisable in view of the rapidly decreasing supply of pulpwood, is a matter of the greatest interest in the Miami Valley, and it is a source of pride that one of its nationally-known firms should be the first to give it a test.

The Procter & Gamble Company will operate through its subsidiary, the Buckeye Cotton Oil Company.

If plans are carried out according to program both mills will be in operation within five months. There has been growing apprehension over the shortage of pulpwood. As is well-known, a thirty-acre tract of Canadian woodland is required to produce a quantity of news print sufficient to meet the daily demands of one of the country's largest newspapers, and the steady and terrific drain on the pulpwood resources is apparent. In other lines of paper manufacture the drain is just as great, if not greater, hence the discovery that cotton linters are suitable for the making of paper stock, may prove to be of vital importance not only to manufacturers and dealers, but to mankind in general.

### Welfare Work in Paper Mill Towns

Dayton, Hamilton, Middletown and other mill centers just now are busily engaged in assisting the apprentice boys in the various trades acquiring an education, in addition to their work in the mills and factories and the print shops.

A part-time trade extension is being conducted by the Board of Education of Dayton and the school is so well attended that few more can be accommodated. As a separate school a print shop is conducted at Steele High School, all of the other classes being held at Stivers' Manual Training School in East Dayton, one of the largest in America.

In Middletown a meeting was held last week at which fifteen manufacturers, including the paper contingent, discussed the advisability of conducting a part-time trade extension school through the cooperation of the schools of that

town. Educators explained that they would teach such studies as were desired for the employees of different plants providing the manufacturers agreed to the plans and would give the boys a chance to attend school and work alternately. Under the plan all apprentice boys would go to school one-half day each week for four years. A man of practical experience in shop work will be employed in each department as instructor.

H. L. Kutter, of the Black-Clawson Company, manufacturer of paper-making machines, announced himself and company in favor of the plan providing the school board discovers exactly what the boys from his plant need in the line of instruction. He stated that a course somewhat similar to that proposed, had been adopted by his company and that it had been found practicable and successful.

### General News of the Trade

An enthusiastic meeting of the girls of the Champion Coated Paper Company was held the other afternoon at the mills in Hamilton. The meeting was conducted by Mrs. Ernest Ruder, Jr., and Miss Anna Holcomb, physical director of the Y. W. C. A. During the noon hour music and many games were enjoyed by the girls.

A majority of manufacturing firms of Middletown are making an effort to grant more pay to their employees to assist them in meeting the rising costs of necessities. The latest firm to be added to the list is the Advance Bag Company, manufacturers of paper bags. An increase of ten per cent has been granted, and it is needless to say that the same is greatly appreciated.

Information that some of the periodical publishers of New York were considering the issuance of their publications in Ohio, Cincinnati being the favored spot, has led to the inquiry as to whether the publishing plants of this city could not be utilized. The United Brethren Publishing plant is one of the largest in the country and is well equipped. It is understood that Edwin Brown, of New York, representing the McClure publications, conferred with Postmaster Clore, of Cincinnati, as to the postoffice facilities available in the event that company established a big plant in the Queen city. He was assured that a recommendation would be made for the establishment of a branch postoffice at the publishing plant. It is said all of the McClure publications are being printed in Cincinnati, this month.

The Industrial Department of the Chamber of Commerce of Middletown has indorsed three issues which will be submitted to the voters next month, the adoption of which will make for a Greater Middletown. Among the issues favored by the manufacturers and business men is the employment of a city manager; \$100,000 for sewers and \$500,000 for schools. At a citizens' mass meeting, all present went on record as favoring the amendment for the classification of property for taxation. This issue also is attracting considerable attention in Dayton and other business centers. Last November the proposition was defeated. Among the paper manufacturers and others who spoke at the mass meeting and the session of the Chamber of Commerce were L. C. Anderson, L. T. Palmer, J. A. Aull, C. T. Elliott, J. W. Ash, Benjamin F. Harwitz, L. J. Roney.

### M. L. Griffin Leaves Oxford Paper Company

NORTH DIGHTON, MASS., October 27, 1919.—Martin L. Griffin, who for a number of years has been chief chemist of the Oxford Paper Company, Rumford, Me., has severed his connection with that concern to become associated with the Mount Hope Finishing Company, North Dighton, Mass., where he should be addressed after November 1.



## PAPER MEN AND PUBLISHERS IN CANADA GET TOGETHER

**Agreement That Settles the Controversy Over the Price of News Print Paper on a Basis Satisfactory to Both Parties Said to Have Been Reached Although Details Are Not Yet Available—New Financial Interests Become Associated with the Brompton Pulp and Paper Co.—Exports of Pulp and Paper Are Hampered by Car Shortage—Pulp and Paper Stocks Eagerly Bought.**

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, QUE., October 27, 1919.—The long-drawn-out controversy between the pulp and paper manufacturers and the Canadian publishers has been settled at last. During the past week or two there have been signs of an approachment between the two parties who have so often fought each other before the Paper Controller and the Paper Trade Tribunal. At last these parties got together and have reached an agreement that settles the controversy over the price of news print on a basis satisfactory to both parties.

The details of the agreement are not yet available pending the report which each side has to make to its principals, but it is understood that a moderate advance from the prevailing level of \$3.65 per hundred pounds, set by Commissioner Pringle some months ago, has been agreed upon.

Should the principals in each case approve of the settlement arrived at, as would appear to be a likely development, the agreement will, in the ordinary course of affairs, be submitted to the Paper Commissioner at Ottawa for sanction. As the two interests are like litigants in a court case, and Commissioner Pringle, the arbitrator, official sanction will, in all probability, be readily forthcoming.

It is stated that the negotiations were conducted in the friendliest possible manner, with each side ready to give and take so far as reasonable in the matters at issue and both interests eager to bring to an end a long-drawn-out and, at times, acrimonious controversy.

The result of the conferences should have a highly beneficial effect upon the Canadian pulp and paper industry generally, especially in its relation to the export situation. Owing to the news print shortage in the United States, predictions are heard in well-informed quarters that the Canadian product will be able to command as high prices as from \$85 to \$90 per ton early in the coming year.

### **New Interests in Brompton Paper**

Important developments have taken place during the past few days in regard to the Brompton Pulp and Paper Company, Ltd., the plant of which is situated at Bromptonville, Que. Following a recent thorough inspection of the Brompton plants and pulpwood limits, a group identified with another pulp and paper concern reached the decision to associate themselves financially in the Brompton Company. In addition to this, a substantial volume of the stock of the company has been acquired for a prominent English-Canadian financier, who has been seeking for some time to secure a more extensive interest in the pulp and paper industry of Canada. It is stated that the new interests in the company will not result in any changes in the operating executive of the Brompton concern. Whether they will be represented on the directorate is for the future to disclose. The president of the company is F. M. McCrea, with J. A. Bothwell as general manager. The company's plant includes

21 grinders, 23 wet machines and the capacity being 280,000 pounds of ground wood per 24 hours.

### **Another New Sulphate Plant**

Good progress is being made in the construction of the new sulphate pulp plant and saw-mill being erected at Bear River, N. S., by Clarke Bros., Ltd. The company is also making readjustments and extensions to its woodworking establishment at Lake Jolly. Clarke Bros. intend operating about the usual number of camps during the coming winter. They find the labor situation is somewhat difficult at the present time and that wages and the cost of camp supplies are all higher than in 1918.

### **Car Shortage Hampers Export**

The movement of pulp and paper for export is still subject to intermittent delays owing to car shortage. This is caused to some extent by the sending of cars to the West for the grain movement and also apparently by increased inefficiency on the railways. This latter reason is testified to by the Canadian Railway War Board which, in a bulletin just issued, says: "Three tons have fallen from the average load of the Canadian freight car. Instead of carrying 27.4 tons, as in 1918, the average car is now carrying only 24.4. This does not mean a decrease in the total volume of freight moving, but an increase in the number of cars required to handle a given tonnage; an increase in the number of engines required; an increase in the amount of tare-weight (weight of cars less freight) to be handled in each train; the crews on duty, the coal consumption and the track room occupied. The reserve margin of cars and engines is thus diminished and an unfavorable situation created alike for the railways and the shippers."

### **New Record for Paper Issues**

The pulp and paper industry is the pampered favorite of the investor and the stock speculator these days. This has again been demonstrated by the fact that during the week the pulp and paper stocks on the Montreal market have been eagerly sought for by the public, and the result is that new high price records have been established for the leading securities in that group, including Laurentide, Abitibi, Price Brothers, Riordon, Wayagamack and Spanish preferred, while Spanish common at 71 came within 1% points of reaching its highest price at 72% made in 1913.

Standing out prominently in the matter of activity and strength was Wayagamack, about which many rumors are heard on the local "Street," the most important of which is to the effect that outsiders are seeking control of the property. At any rate the stock, under an unusually active demand, broke into new high price ground, and par is now predicted for the security. At 244 Laurentide recorded the best price in its history, as the former high stood at an even 240, reached in September, 1912. Abitibi has been unusually buoyant, and made a new high price record on buying of a very small amount of stock, while Riordon broke into new price ground at 159, from which it reacted a couple of points, Howard-Smith held firm around 135. The Spanish Rivers continued in active demand, the preferred making its highest price at 118, while the common stock at 71 was within a point or two of its best made in 1913. There has been considerable trading in Brompton, with the price holding steady around 81 to 82.

### **The Future of Wayagamack**

There is considerable speculation in Montreal as to the source of the buying of the securities of the Wayagamack Pulp and Paper Company. From a considerably lower price level there has been a cautious and steady accumulation of the stock, but

(Continued on page 42)



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## PAPER SUPERINTENDENTS CONVENE IN KALAMAZOO

**Local Association Carries Out One of the Most Instructive and Interesting Programs in Its History—Helpful Talks Are Made by Prominent Men and Lively Discussions Follow—Kalamazoo will be Well Represented at the Meeting of the American Pulp and Paper Mill Superintendents' Association in Chicago Which will be Held at the Hotel Congress November 6 and 7.**

[FROM OUR REGULAR CORRESPONDENT.]

KALAMAZOO, MICH., October 27, 1919.—The Kalamazoo branch of the Paper Mill Superintendents Association of America convened at the Park-American Hotel, Monday evening of last week for dinner and an instructive program following. It proved to be the most enthusiastic gathering yet held by this progressive organization and augers well for future activities.

Three subjects were considered during the evening. G. E. Phisterer, of the Green Fuel Economizer Company, talked on "Power Production and Distribution." C. W. Rieser, chief chemist of the Western Paper Makers Chemical Company, read a paper on "Rosin Sizing of Papers." Cale Stickle, of the Open Coil Heater and Surface Company, Indianapolis, considered "The Drying of Paper."

A lively discussion followed these three talks and many interesting points were brought out.

P. A. Van Vlack, of the Moser Paper Company, Chicago, talked informally on the relations of the paper mill superintendents to the jobbing and printing trade, bringing out many good points.

Peter J. Massey, of Chicago, called attention to the big gathering of superintendents to be held in Chicago, November 6 and 7. An excellent program has been prepared and Kalamazoo is going over strong for this gathering.

Those present were C. W. Ulrich, Wolverine Paper Company, Otsego; H. W. Reynolds, R. & J. Dick, Ltd., Chicago; C. P. Davis, Macsimbar Paper Company, Otsego; A. G. Wightman, Hawthorne Paper Company; W. J. Lawrence, Western Paper Makers Chemical Company; P. A. Van Vlack, Moser Paper Company, Chicago; J. H. O'Connell, King Paper Company; C. H. Noble, Lincoln Mills; W. H. Wightman, Lee Paper Company, Vicksburg; D. H. Zwart, Bryant Paper Company; George McGuire, Bryant Paper Company; C. W. Rieser, Western Paper Makers Chemical Company; Peter J. Massey, "Paper Industry," Chicago; E. T. A. Coughlin, Monarch Paper Company; Cale Stickle, Open Coil Heater and Surface Company, Indianapolis; E. H. Gilman, Bryant Paper Company; Ben Groover, Kalamazoo Vegetable Parchment Company; J. E. Winterburn, King Paper Company; Edwin L. Brezette, Monarch Paper Company; Jacob Parent, Western Board and Paper Company; W. H. Reynolds, Kalamazoo Paper Company; Grant Johnson, Western Board and Paper Company; R. M. Adams, Kalamazoo Paper Company; John Tomlinson, Standard Paper Company; E. F. Yahmke, Standard Paper Company; C. J. Chamberlain, Watervliet Paper Company, Watervliet; Frank Kress, Jr., Watervliet Paper Company; C. O. Thorne, Watervliet Paper Company; M. Redmond, Kalamazoo Paper Company; J. C. Driessen, Kalamazoo; Max Oberdorfer, Filer Fibre Company, Manistee; J. Kuss, King Paper Company; N. J. Nicks, Parchment Paper Company; F. A. Johnson, King Paper Company; G. E. Phisterer, Green

Fuel Economizer Company; Howard P. Hall, PAPER TRADE JOURNAL.

### To Be Well Represented at Chicago

The Kalamazoo Valley District will be well represented at the semi-annual meeting of the American Pulp and Paper Mill Superintendents Association at the Hotel Congress, Chicago, November 6 and 7. Superintendents from practically every mill are going and are now making arrangements with Peter J. Massey, secretary of the organization, to secure them hotel accommodations.

Mr. Massey has been able to prepare a program of real worth for the event. There will be enough doing to keep the visitors on the jump throughout the two days they are in the Windy City.

The complete program follows:

#### Thursday, November 6

Registration in Florentine room, Hotel Congress.

Opening address by Mayor Thompson.

Report of the Sulphite Committee by Chairman D. F. O'Connell, of the Northern Paper Mills.

Report of Box Board Committee by Chairman Henry Bert, general superintendent of the Downing Box Company.

Report of the Ground Wood Committee by Chairman John E. Mulcahey, superintendent of the Grandfathers Falls Paper Company.

Report of the Beater Room Committee by Chairman G. W. Mericle, general superintendent of the George A. Whiting Paper Company.

Address on "Casein," by Harry L. Derby, vice-president of the Kalbfleisch Corporation.

Drive to the plants of the United States Rubber Company and the Chicago Mill and Lumber Company.

Dinner and entertainment in the evening, in the Florentine room of the Hotel Congress.

#### Friday, November 7

"Industrial Relations," by George P. Hambrecht, chairman of the Industrial Commissions of the United States and Canada.

"Paper Mill Cost System," by W. T. Schmitt, assistant treasurer American Writing Paper Company.

"Preservation of Paper Mill Roofs," by K. Barth, wood preservative expert of the Barrett Company.

Luncheon will be served at noon and the afternoon gathering will be a combined meeting of the printing and paper mill superintendents.

"Relation of Ink and Paper in Half-Tone Printing," by H. P. Carruth, vice-president of the Mead Paper Company.

"Manufacture of Coated Papers," by Ed. T. A. Coughlin, superintendent of the coated paper division of the Monarch Paper Company.

"Testing of Papers," by Otto Kress, of the Forest Production Laboratory of the University of Wisconsin.

"Difficulties Encountered in Printing Papers," by Peter J. Massey.

A general discussion will follow.

At 6:30 in the evening a banquet will be served in the Florentine room.

Secretary Massey reports that reservations are coming in steadily from the Michigan, Wisconsin, and Miami Valley Districts and that every indication points to a large crowd.

#### Battle Creek Paper Company to Expand

The Battle Creek Paper Company has awarded to the Witherspoon Engineering, of Chicago, the general contract for the erection of a \$200,000 addition to their plant. The building is to be two stories high and 120 by 210 feet in dimensions.

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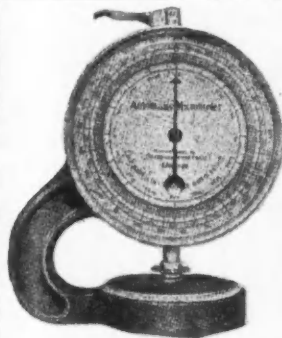
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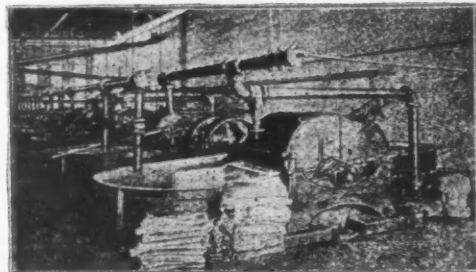
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## BIDS AND SPECIFICATIONS FOR GOVERNMENT PAPER

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

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., October 27, 1919.—The Purchasing Officer of the Government Printing Office has received the following paper bids:

91,500 pounds (1,500 reams) of 28x34—No. 24 white wove writing paper; George W. Millar & Co., at \$18 and \$19 per pound; Merriam Paper Company, at \$18; D. L. Ward Company, at \$25; Stone & Andrew, at \$252; R. P. Andrews Paper Company, at \$1734; Typewriter and Office Supply Company, at \$25; American Writing Paper Company, at \$1594; Whitaker Paper Company, at \$19 and \$16; Dobler & Mudge, at \$175; Strathmore Paper Company, at \$22; and Aetna Paper Company, at \$1499.

11,500 pounds (500 reams) of 17x22—23, white non-curling gummed paper; Mathers-Lamm Paper Company, at \$4.12, \$5.20 and \$4.60 per ream; R. P. Andrews Paper Company, at \$3.97; Ideal Coated Paper Company, at \$4.90; Anderson Company, at \$4.19; George W. Millar & Co., at \$4.55; Nashua Gummed and Coated Paper Company, at \$4.83; Gummed Paper Company, at \$4.37; Carter, Rice & Co., at \$4.83; D. L. Ward Company, at \$4.06; R. Grossman, at \$4.12; Dobler & Mudge, at \$4.40; and J. Jones Company, at \$4.08.

8,800 pounds (100 reams) of No. 1, 29x41—88, flat white M. F. printing paper; D. L. Ward Company, at \$.0875; American Writing Paper Company, at \$.0965; Dobler & Mudge, at \$.095; and R. P. Andrews Paper Company, at \$.09 and \$.09½.

The Purchasing Officer of the Government Printing Office will open bids on October 31 for 12,160 pounds (80 reams) of 33x46—152, smooth tea cover paper.

### Government Printing Office Awards

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

The American Writing paper Company will furnish 53,000 pounds (1,000 reams) of 23x36—No. 24 white wove writing paper at \$1.635 per pound, and 5,000 pounds of U. S. M. O. blue wove writing paper in 8½" rolls will be furnished by the R. P. Andrews Paper Company, at \$.18. The Nashua Gummed and Coated Paper Company will furnish 6,500 sheets of 24x38" white cloth lined paper at \$210.00. Bids for these items were opened on October 6.

16,000 pounds (500 reams) of 22x34—No. 16 flat high machine finish yellow writing paper will be furnished by the American Writing Paper Company at \$.1275 per pound and the same firm will also furnish at \$.1085, 56,000 pounds (2,000 reams) of 24x32—No. 28 white machine finish printing paper. The Aetna Paper Company will furnish 35,150 pounds (700 reams) of white wove writing paper at \$.1623 per pound, and 5,750 pounds (100 reams) of 21x32—No. 32 yellow wove commercial ledger paper will be furnished by the American Writing Paper Company, at \$.234. Kerr Paper Company will furnish: 10,000 pounds (2,000 sheets) of 34x44—

No. 10 trunk board at \$.03825 per pound. The Whitaker Paper Company will furnish 10,050 pounds (150 reams) of 24x38—67, single-coated book paper at \$.105 per pound. Knowlton Brothers Company will furnish 32,500 pounds (650 reams) of dawn, suede, and sage, rough cover paper, 20x25—50, at \$.10 per pound, and the Whitaker Paper Company will furnish 5,000 pounds (100 reams) of 20x25—50, quaker drab rough cover paper at \$.10 per pound. Bids for all of these items were opened on October 13.

232,950 pounds (6,700 reams) of various sizes of white writing paper will be furnished by the Aetna Paper Company, at \$.1549 per pound. The Kalamazoo Paper Company will furnish 500,000 pounds of white M. F. printing paper in 38" rolls, basis of 25x38—No. 1 at \$.085 per pound. Bids for these items were opened on October 17.

9,600 pounds (300 reams) of 22x34—No. 16 salmon writing paper will be furnished by the Aetna Paper Company, at \$.1684 per pound. The Southworth Company will furnish 2,000 pounds (100 reams) of 17x22—No. 20 white declaration bond, at \$.32. The American Writing Paper Company will furnish 5,000 pounds (100 reams) of 18½x36—No. 28 white wove ledger paper at \$.33 per pound, and the same firm will also furnish 12,500 pounds (250 reams) of 20x25—50 smooth granite cover paper at \$.099. Bids for all of these items were opened on October 17.

### Panama Canal Bids

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

40 reams (20,000 sheets) of salmon and canary, 22½x28½—110 index bristol board; Dobler & Mudge, at \$1,320.00; Mathers-Lamm Paper Company, at \$1,270.00; George W. Millar & Co., at \$1,152.00; Old Dominion Paper Company, at \$1,299.60; Universal Trading Company, at \$874.28; Republic Bag and Paper Company, at \$1,380.00; and R. P. Andrews Paper Company, at \$1,286.80.

200 reams (100,000 sheets) of 17x28—No. 28 white ledger paper; Whiting-Patterson Company, at \$2,200.00; Dobler & Mudge, at \$2,480.00; Mathers-Lamm Paper Company, at \$2,698.00, \$2,448.00 and \$2,272.00; George W. Millar & Co., at \$2,548.00, \$2,304.00 and \$2,160.00; Old Dominion Paper Company, at \$2,281.80; Republic Bag and Paper Company, at \$2,274.00; and R. P. Andrews Paper Company at \$2,357.20.

50 reams (25,000 sheets) of 24x36—40 money wrapping paper; R. A. Cauthorne Paper Company, at \$270.00; Dobler & Mudge, at \$300.00; George Millar & Co., at \$461.00; Old Dominion Paper Company, at \$206.50 and \$189.50; Republic Bag and Paper Company, at \$221.00; and R. P. Andrews Paper Company, at \$228.00.

800 reams (400,000 sheets) of 17x22—7¼ unglazed onion skin paper; R. A. Cauthorne Paper Company, at \$2,752.00; Dobler & Mudge, at \$3,024.00; Esleek Manufacturing Company, at \$1,800.00; Mathers-Lamm Paper Company, at \$2,752.00; George W. Millar & Co., at \$1,160.00; Universal Trading Company, at \$3,032.00 and \$2,208.00; and R. P. Andrews Paper Company at \$2,779.20.

400 cases of good quality tissue toilet paper; R. A. Cauthorne Paper Company, at \$6,780.00; Fillmore & Slade, at \$6,000.00; Graham Paper Company, at \$6,460.00; J. E. Linde Paper Company at \$5,400.00; George W. Millar & Co., at \$4,834.30; Old Dominion Paper Company, at \$6,699.60; Universal Trading Company, at \$6,160.00; White-Washburne Company, at \$7,080.00 and \$6,640.00; Republic Bag and Paper Company, at \$5,400.00; and R. P. Andrews Paper Company, at \$6,460.00.

(Continued on page 40)



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## PRACTICAL QUESTIONS AND ANSWERS FOR MILL MEN

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

### Flotation Test

Question No. 2464: In your answer No. 2457, part third, you mention "Flotation test." Can you give me the standards ordinarily used in making the flotation test?

Part four, you mention 12 to 13 per cent moisture.

Is it meant free moisture that might be evaporated if left to the atmosphere?

Answer No. 2464: Following is a description of the flotation test for grit in clay. This test gives the amount of material which is of sufficient density and in the form of particles large enough to settle through two inches of water in one minute. The procedure is to weigh off ten grammes of clay in a glass beaker on the side of which a mark is made two inches from the bottom. The beaker is then filled with water up to the two-inch mark, the mixture stirred thoroughly and allowed to stand for exactly one minute. At the end of this time the milky supernatant liquor is poured off and the beaker again filled up to the two-inch mark with water and the same operation continued until at the end of one minute's time everything settles and the water can be poured off practically clear. The residue is then dried out and weighed.

The true clay is in such a fine state of subdivision that it will not settle through this amount of water in one minute's time. The flotation test generally gives results higher than the 200-mesh test. This is due to the fact that there are present, certain particles which are heavier than clay and which will, therefore, settle through two inches of water in a minute, but which are, at the same time, fine enough to pass through a 200-mesh sieve.

The 200-mesh sieve test also shows up small particles of mica, which are larger than the meshes of the sieve, but which, being flat do not settle rapidly and are likely to escape the flotation test.

The 12 to 13 per cent moisture mentioned in the fourth part means the moisture that can be driven off at 100 centigrade until constant weight by heating is obtained.

Question No. 2465: Through the "Question and Answer Department" will you be kind enough to answer the following: When is the best time to rosin size a beater of all rag stock, one hour before dumping or three hours before dumping? Rosin size 26 parts free rosin, 1200-lb. beater, nine hours beating, 16-lb. folio.

I am a subscriber to your valuable paper and follow your "Practical Question and Answer Department" with great interest and find it a great help to me as a paper maker.

Answer: The results of tests made, on the time to add size to the beaters, show that the maximum efficiency of the size would be best obtained by adding your size three hours before dumping rather than one hour. In following out this method the individual fibres have time to be coated and impregnated with the rosin, this tends also to make hydration more complete, thus further aiding the sizing of the paper.

### Best Machine for Making Bogus Papers

Question No. 2466. Will you please answer in your "Practical Question and Answer Department" of your valuable paper, the questions below:

Which is the best machine for making bogus and other common wrapping paper, not lighter than 24x36—50 pounds, a Fourdrinier or a two or three-cylinder machine? Also advantages and disadvantages of each.

"A" says a cylinder is the best machine for this grade of paper and "B" says the Fourdrinier is the best machine. Which is right, "A" or "B"?

Thanking you for your advice.

Answer No. 2466: I would say that "B" had the best end of the argument, although in certain cases, "A" would be justified in his adherence to the cylinder machine. The principle advantage of the Fourdrinier machine over the cylinder on this grade of paper, is that you can get a much stronger and better formed sheet of paper from a given stock on a Fourdrinier than you can on a cylinder (this, of course, is a very important quality in wrapping paper), and is due to the fact that the Fourdrinier has a much greater forming surface and also that a shaking motion is applied while the fibres are yet in suspension, thus causing them to felt or weave better, which gives the greater strength. This better felting and formation also allows the paper to take a higher and better surface when that quality is desired. It also gives the paper better folding qualities, which is important in a good grade of wrapping paper. The cylinder machine, on the other hand, is very good in making the very heavy weights, especially where greater production is desirable and where the other qualities which go with good formation are not so important.

Question No. 2466: Can you explain to me through your "Paper" why paper cannot be coated on a paper machine? That is, a thin coat of color on one side such as duplex envelope or stain or a thin solution of wax or varnish for high finish. I have worked on a paper machine. I am now working in a coating mill. I have studied this thing over and am quite sure it will work.

Answer No. 2466: I would say that one of the chief objections to coating paper on a paper machine would be in drying the paper after being coated. You must understand that after being coated, either on one or both sides, that it would be impractical to have the paper come in contact with dryers or dryer felts. This would not only disturb the coated surface, but would also cause the dryers and felts to become coated, hence, the slow drying process of the coating machine. Of course, paper can be coated with various substances on a paper machine by means of the size tub, and in some cases, press rolls, but these methods call for squeezing off the surplus material by passing through the rolls.

Paper intended for coating purposes, is, as a general rule, made at a fairly good speed, and if all other objections were overcome it is obvious that production would be greatly curtailed if the coating process was added to the machine. This cutting down of production would be due to the difficulty in drying the paper after being coated and also in the handling of the paper. This loss of production would greatly increase the cost of coated papers, over what they now are. I believe there has been several patents for coloring paper on one or both sides in the process of manufacture, but do not believe them to be practical excepting in special instances.



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**SHEVLIN SCREEN**

**Two No. 1 Shevlin Screens.** Complete.

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**T. P. 301-A. Three 175 HP. Heine W. T. Boilers.** 150 lbs. pressure. (Chain grate stokers and stack 66-in. x 128-ft. can be included with these.)

**T. P. 890. 267 HP. Parker W. T. Boiler.** 130 lbs. pressure.

**T. P. 492. 400 HP. Union W. T. Boiler.** 150 lbs. pressure.

**T. P. 517-C. 400 HP. Parker W. T. Boiler.** 165 lbs. pressure.

**T. P. 301-G. Three 350 HP. B. & W. Boilers.** 150 lbs. pressure. (Chain grate stokers and stack 78-in. x 150-ft. can be included with these.)

**C. G. 41. 100 HP. Cooper H. R. T. Boiler.** 110 lbs. pressure.

**T. P. 1109-E. 82HP. H. R. T. Boiler.** 85 lbs. pressure.

**C. G. 30. 308 HP. Heine W. T. Boiler.** 180 lbs. pressure.

**T. P. 1195. Two 70 HP. American H. R. T. Boilers.** 90 lbs. pressure.

**T. P. 1063-F. 200 HP. W. T. Boiler.** 150 lbs. pressure. Murphy stoker.

**C. G. 59-A. Two 212 HP. Heine H. W. T. Boilers.** 160 lbs. pressure.

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## New York Trade Jottings

L. B. Steward, secretary of the American Paper and Pulp Association, whose offices are at 18 East 41st street, returned from Atlantic City last Thursday, where he attended the International Trade Conference.

\* \* \*

George W. Sisson, Jr., president of the American Paper and Pulp Association, attended the National Trade Conference at Washington, as one of the representatives of the paper industry. He returned to New York last week.

\* \* \*

J. W. Dwyer, of the Great Northern Paper Company, 30 East 42nd street, has been sick for nearly a week, and has not been at his office. Latest reports, however, state that he is recovering and will be back at his desk soon.

\* \* \*

H. L. Derby, vice-president of the Kalbfleisch Chemical Corporation, 31 Union square West, will leave next week for Chicago, where he will address the American Paper Mill Superintendents' Association, when it holds its annual convention, November 6 and 7.

\* \* \*

H. Plaut, of the H. Plaut Trading Company, of Buenos Aires, who has been here on a business trip for the past few months, is leaving for London, England, where he is going on business and from whence he will leave to return to Buenos Aires. He expects to reach Buenos Aires about Christmas time.

\* \* \*

The Secretary of State, at Albany, N. Y., has granted an increase of capitalization of \$150,000 to the Royal Card and Paper Company, 100 Worth street, Manhattan. The company was formerly incorporated at \$150,000, and the new increase makes the capital stock of the corporation \$300,000.

\* \* \*

An interesting little booklet has been issued by the Goulds Manufacturing Company, New York, on the use, manufacture, and testing of centrifugal pumps. Accurate tables and formulae, as well as the mechanical theory of the centrifugal pump are to be found here, together with plates of the centrifugal pump in use in various industries. It can be obtained for the asking.

### Fifth Avenue Association Drive For Members

The patriotic activities of The Fifth Avenue Association and its members, during the war, which contributed so much to the fame of the Avenue of the Allies, have brought new responsibilities upon the organization in increased demands upon its services and resources as one of the leading civic bodies of the city.

That it may meet these demands and live up to its reputation so well earned in war work and by prompt aid in all causes for civic betterment, the Association has decided to increase its membership.

During the war the Association discontinued its annual dinners which will be resumed on November 6 at the Waldorf-Astoria. Governor Smith has accepted an invitation to be the Association's guest on this occasion.

Immediately following the dinner a ten-days' drive will be started to secure new members.

It is planned to make the dinner the largest in the history of the organization. Provision will be made for at least 800 covers. There are many business women in The Fifth Avenue Association and those attending as well as other women guests will be seated on the main floor.

R. A. C. Smith is chairman of the Dinner Committee. The other members are John H. Towne, Robert Grier Cooke, Cassius Bagley, Paul B. Boden, Henry J. Cochran, Michael Dreicer, Harris A. Dunn, Lawrence B. Elliman, Grosvenor Farwell, Michael Friedman, Stephen F. Hart, Charles E. Haydock, E. N. Hodges, Louis J. Kaufman, Clarence L. Law, John Sloane, Arthur Williams, E. M. Youmans, George T. Mortimer.

### Exports of Paper Board

WASHINGTON, D. C., October 20, 1919.—According to figures which have just been made public by the Department of Commerce there was \$398,241 worth of 2paper board exported from the United States during August. The board went to the following countries: Azores and Madeira Islands, \$53; Belgium, \$140; Denmark, \$3,448; Netherlands, \$1,720; Norway, \$278; Spain, \$278; Turkey in Europe, \$4,000; England, \$24,565; Scotland, \$384; Bermuda, \$157; British Honduras, \$89; Canada, \$79,298; Guatemala, \$596; Honduras, \$306; Nicaragua, \$27; Panama, \$1,540; Mexico, \$8,415; Newfoundland and Labrador, \$350; Barbados, \$105; Jamaica, \$334; Trinidad and Tobago, \$73; other British West Indies, \$157; Cuba, \$19,503; Danish West Indies, \$5; Dutch West Indies, \$286; French West Indies, \$60; Haiti, \$14; Dominican Republic, \$6,448; Argentina, \$86,155; Brazil, \$21,656; Chile, \$1,167; Colombia, \$1,704; Ecuador, \$121; Dutch Guiana, \$173; Peru, \$1,513; Uruguay \$4,030; Venezuela, \$482; China, \$33,691; British India, \$6,716; Straits Settlements, \$75; Hongkong, \$4,551; Japan, \$51,339; Russia in Asia, \$110; Turkey in Asia, \$65; Australia, \$22,283; New Zealand, \$936; Philippine Islands, \$3,463; British South Africa, \$5,392.

### Paper Mill Changes Hands

The Gibbs-Brower Company, paper and pulp mill brokers, of 261 Broadway, New York City, announce the sale of the Palisade Mill of the Riverton Company, Litchfield county, Riverton, Conn., for Raymond S. Case, treasurer of the Case Manufacturing Company, of Unionville, Conn., to the State Pulp and Paper Company, of 8 West 40th street, New York City.

The Riverton Mill is beautifully situated in one of the wildest and most picturesque sections of Connecticut. It is on the banks of the Farmington river which supplies some of the finest paper-making water in New England.

The new owners have taken over the mill and have completed repairs and improvements. They are now making pattern tissues on the 62-inch single cylinder machine at a speed of 200 feet per minute, turning out 3 to 3½ tons per day.

### Business Better in Holyoke

HOLYOKE, MASS., October 27, 1919.—Business with the local paper manufacturers continues to show a constant improvement in all lines. Writing papers particularly are selling strong and as the weeks roll by the manufacturers find the volume of orders on their books not only greater but also larger in quantity. Since early summer the tendency has been upward and a decided improvement has been felt during the past month. Notwithstanding this betterment, however, there is plenty of room for more business. Some of the mills are operating practically normal, while others are not quite up to this mark yet.

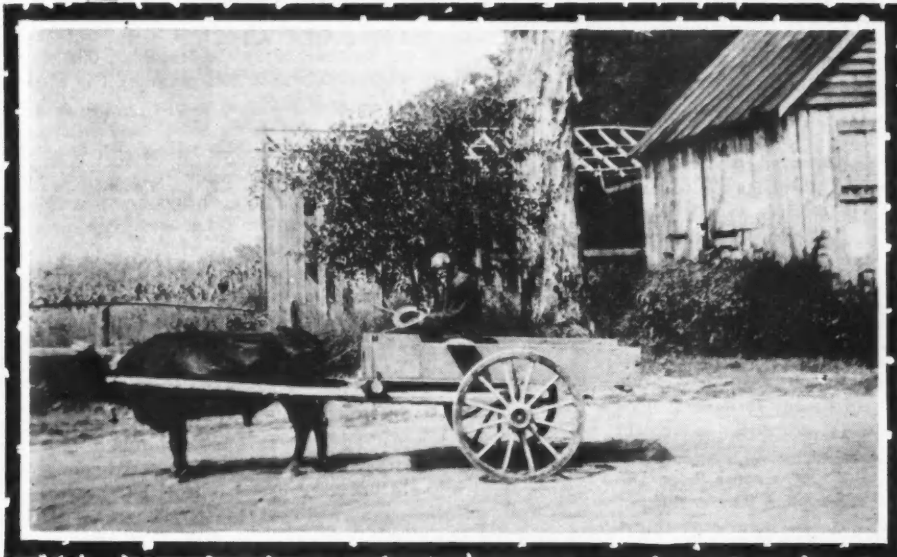




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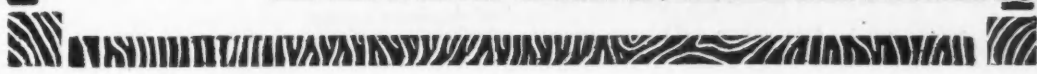
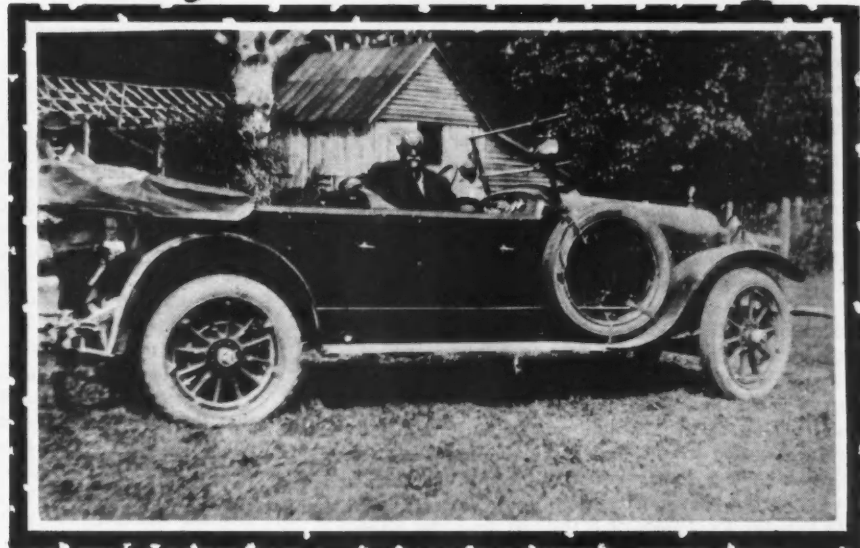
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## SULPHATE AND SULPHITE HAZARDS\*

By ERLING RIIS, WAUSAU SULPHATE FIBRE COMPANY, MOSINEE, WIS.

The hazards in the sulphate and sulphite pulp mill are very similar although the principles on which the chemical process is based are exactly the reverse. We will therefore treat them together up to the point where there really is a marked difference where the sulphate and sulphite hazards will be treated separately.

The logical way to treat the subject would be to follow the manufacturing process from the time the logs enter your pulp yards until the pulp is delivered as a finished product.

### The Pulpwood Yard

The place in the pulp mill that has the most accidents is the yard. This has its reason in the following two factors: First—There is a greater labor turnover in the yard than in the interior plant, consequently you are always employing men with less experience than you do in the rest of the mill; second, even in the best organized pulpwood yard there are certain hazards which it is practically impossible to overcome.

Pulpwood is unloaded from the cars either by cranes or by hand. The pulpwood which comes to the mill loaded on flat cars or gondolas is always held in place by means of car stakes which are wired together. Before the cars can be unloaded these wires have to be cut, which always is more or less of a dangerous operation. Of course, patent car stakes have been introduced and are used to a great extent within the mill yards but very seldom used by the railroads. This has its reason not only in the fact that the safety movement has not boosted them sufficiently but also in the fact that the railroads claim they have a tendency to come loose and therefore are very dangerous on long traffic. The cutting of the ordinary stake and the clipping of the wire must therefore be mentioned as a great hazard.

If the wood is unloaded by hand it is generally because it has been shipped in box cars where cranes cannot be used. A runway must then be staged from the car to the pile. Men carry the logs and bolts, and of course there is danger of stumbling when climbing the piles. In picking up the logs or bolts it is necessary to use hooks. As the work is very monotonous, the attention of the workmen is quite frequently divided between their work and conversation. This leads to the two most common causes of accidents in unloading wood in this manner; where the hook, not being securely fastened into the log, slips out; or where the workmen, while jabbing the hook in the log, hooks in a different direction and misses his log, the hook flies by it and generally hits him in the left knee or thigh or hits his fellow workman.

Many things have been done and many others suggested to minimize the accidents from these causes, but the only suggestion that really has proved of great value is education. Education by direct contact with the men, by publication, by lectures, and last but not least by bulletin boards. The heavier logs, when being unloaded by hand, must be handled by two men, the lighter logs by one man; but whether the log is being carried by one or two men the carriers are always exposed to the danger of stumbling while walking on the log piles. It is general practice to form terraces from the car to the piles most remote from the track, so that the piles take the appearance of a stairway from the car and back. The safe practice, of course, is to lay the logs perpendicular

to the tracks, and if four or eight-foot lengths are used, there will be vertical air spaces every four or eight feet from the first tier and back. If the men are very careful about piling the logs neatly there will be no danger of a man getting his foot down in these spaces, but if the greatest care is not taken, here is a very common cause for a broken leg, or a sprained ankle.

Regardless how strongly you impress upon the man who delivers your pulpwood that you will not accept four and eight-foot lengths in the same car, he is apt to ship you wood mixed in this way. As two four-foot tiers will take up more space than can be covered by the length of one eight-foot log, and the wood is mixed in this manner, it is plainly to be seen that here is another great danger for a man to get his foot caught.

If the wood comes in gondolas or on flat cars, it is generally unloaded by a crane. Presupposing that skillful men handle the crane, that the cables are always being watched, brake bands kept in good condition, buckets inspected for cracks, etc., the handling of cranes is always a dangerous operation, and here, as well as with unloading by hand, the danger is multiplied when logs of various lengths come in the same car, because a longer log sticking out farther is apt to slip out of the bucket without being noticed by the man on the pile. Many an accident has been caused in this manner.

These same hazards which we have in unloading the wood, we also have in reloading it on cars from the yard. But in the pulpwood yard the car with the safety stake should be used exclusively, not only because it is safe, but because of the great financial saving effected in unloading the car at the sawmill platform.

### Slasher Mill

In the sawmill or slashing mill of a sulphate or sulphite factory the hazards were numerous, but it is very interesting to see how in later years they have decreased merely due to the fact that unguarded saws, carriages without railings, etc., are hardly ever to be found any more.

The wood rooms are of the most varied construction. The object of a wood room is always the same, i. e., to remove the bark from the wood and chip the wood into chips of the desired size. The chips are now screened, the screenings rechipped or conveyed to the boiler room for fuel.

There are three types of barkers: The knife barker, which is operated either by hand or machinery, the periodic barking drum, and the continuous barking drum.

The knife barker, operated by hand, has led to many accidents, although they are generally minor accidents, such as the cutting off of the tips of fingers. The knife barker has been equipped with an attachment to revolve the logs while the bark is being removed, which has minimized this danger and on some barkers in fact entirely removed it.

The continuous barking drum is operated in such a manner that the bolts come into one end of the revolving drum and out of the other. Some bolts, however, will not be completely barked, and have to be returned by a special conveyor and re-fed in the drum. The danger of accidents is very small, and the accidents generally result in a slight squeeze or bruise. If, however, a man should fall into the barking drum, death is almost certain.

\* Read at the meeting of the Pulp and Paper Section of the National Safety Council, Cleveland, Ohio.

(Continued on page 30)



**FLEXCO-LOK STEEL LAMP GUARDS  
ARE A REAL NECESSITY**

Electric lights by their very nature are fragile and easily broken. The sharp "bang" of a breaking bulb is a familiar sound in every shop and factory. Every broken lamp means a definite loss and increases the overhead expense. FLEXCO-LOK Expanded Steel Lamp Guards cut this waste to a minimum.

The FLEXCO-LOK Lamp Guard is made of expanded steel, well coated with tin. It is easily adjusted and is LOCKED with a key. This prevents unauthorized removal. FLEXCO-LOK Lamp Guards safeguard your employees and the work in progress from the danger of broken glass. They reduce the fire hazard.

A single broken or stolen lamp costs more than the guard. Ask your dealer or write for catalog and prices.

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Manufacturers **FLEXIBLE STEEL LACING CO.**  
Also Manufacturers of Alligator Steel Belt Lacing

Dept. L. G. 35      522 So. Clinton St.      Chicago, Ill

# Revolvator



## Which?

### Man Capacity or Warehouse Capacity

Use the empty space between the top of the pile and the ceiling—the space that's inaccessible to the bang of juggling, tugging, heaving "box-bale-or-barrel-boosters". GET A REVOLVATOR and get to the top—with half the labor in half the time. Store to warehouse capacity, limited, only by ceiling height; not by man capacity. Use your storage quarters, not the men, "for all they're worth."

Higher piles with lower labor costs—that's the REVOLVATOR. One man can throw on a load, swing the REVOLVATOR'S revolving base toward the pile, raise the load by turning the crank and the fellow on top; can slide it off quickly.

*Bulletin—43 tells more about this "Steel Giant" and how you can use it and effect a big saving.*

### REVOLVATOR COMPANY

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## MUNISING PAPER COMPANY

MUNISING MICHIGAN

MANUFACTURERS OF



COLOR QUALITY AND UNIFORMITY

HAVE MADE FOR IT

AN ENVIABLE REPUTATION



## SULPHATE AND SULPHITE HAZARDS

(Continued from page 28)

The periodic barker requires a hopper above the barking drum of a construction similar to a chip bin over a digester. This hopper is filled by means of a conveyor. The hazards here are smaller than with either of the other methods of barking and as the barking drum stands still at the time it is being filled and the continuous barker is always rather small, seldom more than eight feet by eight feet, the danger if a man should fall into the drum is not very great and the probabilities of falling in the drum are also very small.

The hazards on the chipper are mainly the jumping back of the bolts from the chipper spout. The operator should, therefore, have an opportunity to stand somewhat on the side of the spout while feeding the chipper. A shield of steel or two-inch plank hung in front of the chipper in such a manner that it acts as baffle plate for these articles will fully protect the crew in the wood room. Most chippers are belt driven and have tight and loose pulleys or they are belted direct from an individual motor. However, in some mills we find them belted from the main drive shaft of the wood room without tight and loose pulleys, so that when knives have to be changed in the chipper, the whole wood room has to be shut down. When the disk has to be turned in order to change knives, the fly wheel of the steam engine driving the wood room must be turned in similar manner. This is a dangerous practice, as there is always a danger of misunderstanding the signals and this has been the cause for many a lost finger or hand. Which ever arrangement a wood room has, there are always a good many conveyors, and there have been numerous accidents due to men being caught in conveyors or being hit by bolts falling from the conveyors. These things should always be investigated. The switches, if the conveyors are motor driven, should be easily accessible so that any conveyor can be shut down on a moment's notice.

Where pulp is being made from slabs, it is customary to make the chips by means of a hog. The chute leading from the conveyor into this hog will always have a tendency to clog up. Great care should be taken that the men are instructed never to descend into the chute to unplug this while the hog is in motion. One very great hazard wherever a hog is being used, is the danger of the disk exploding, especially where this is made of cast iron without wrought iron bands surrounding it.

**The Chip Bin**

From the wood room the chips are carried by means of conveyors to the chip bin from which they are put into the digesters. A properly constructed chip bin is not a dangerous place for a man to work. However, the majority of chip bins throughout the country are constructed in such a manner that a man has to go up into the chip bin in order to pick the chips loose to make them slide down into the digesters. There has been a case of a man losing his hold, going with the chips into the digester and being smothered to death. When chip bins are so constructed, steam pipes or compressed air pipes should lead into the chip bin to break down the arches of chips which form while filling the digester. This minimizes the danger to the man.

**Digesting**

The cooking process is somewhat different in the sulphate and sulphite digester and will, therefore, be handled separately.

1. *Sulphate Cooking:* The sulphate digester is generally a small digester yielding from two to three tons of pulp. It may be a tumbling digester or stationary. It should always be welded seamless and not be riveted as no riveted digester will stand up under the strains of expansion and compression without commencing to leak and as the cooking pressure in the sulphate process generally is very high, 100 to 175 pounds, the liquor will

invariably squirt out through the leaks and if anybody is hit by the liquor, he will be severely burned. If the leak is very small, a fine spray will come from a digester as a fog that can hardly be detected, but the fine particles of liquor and steam will be flying around in the air and these particles are very injurious to the eyes.

As the liquor used in a sulphate process does not attack iron to any great extent, the digesters need no lining and do not offer much chance for explosion. Where tumbling digesters are used, the steam line enters the digester through the trunnions. There is then always a danger of this steam line breaking, which is one of the greatest hazards in the digester room of a sulphate mill. The operating floor of the digester room should, therefore, have plenty of exits. If the boiler pressure is higher than the pressure allowed on the digester, a steam-reducing valve should be placed on the high pressure steam line where this enters the digester room. There should also be all iron check valves on each branch of the steam line of the digesters and on the main line right behind the steam-reducing valve, preventing black liquor from backing out of the digester into the steam line and back to the boiler room.

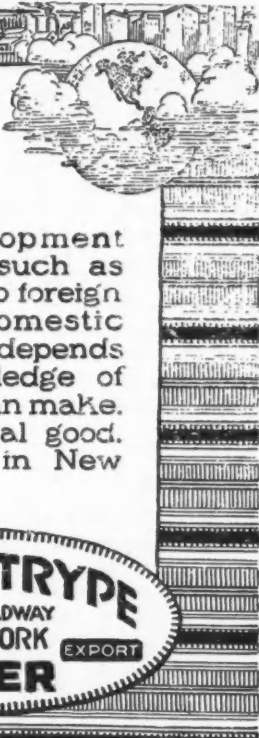
Samples of the pulp have to be taken out of the digesters while this is under full pressure and in most mills this is done in a very primitive manner by blowing the pulp into a barrel or a box with some sacks or old paper mill felt wrapped around it. This seems to be traditional and few mills have been willing to install a cabinet with baffle plates, etc., into which their samples could be blown, overcoming the danger of splashing liquor on the operator and wasting it on the floor. As this substance is very slippery, there is always a danger of slipping on a concrete floor full of liquor, and if a man falls in it, he might be severely burned.

When a sulphate digester is to be blown into a diffuser, a system of signals is generally used between the digester man and the diffuser man so that the latter is aware of the fact that blowing is about to take place and he can take the necessary precautions. The digester man, however, should never blow until he has received the return signal to go ahead. Even with this precaution, there is danger that the blow pipe is connected up to a wrong diffuser and the pulp is being blown into the diffuser which is in the process of being emptied with the result that the man on the bottom floor is badly burned.

2. *Sulphite Cooking:* In the sulphite process the digesters are generally larger than in a sulphate mill, in fact, five to ten times as large. The liquor used in this process releases the gases of sulphur dioxide which are very offensive and choking. The liquor should, therefore, not be filled into a sulphite digester from the top in the same manner as is used in the case of a sulphate mill but should, after the chips are in the digester, be pumped in from the bottom. Also here samples are taken as in the sulphate digester but with this difference that if the liquor splashes on a man's hand or clothing, it does not affect him. What does affect him, however, is the strong gas. The greatest danger in the digester room of a sulphate mill is the blowing of a digester. The valve might burst and the man operating the valve will be scalded. Remote control of the digester valve is recommended and where it is absolutely impossible to install this, a strong partition between the valve and the hand wheel of the valve should be installed. This danger is generally recognized by all sulphite men as the greatest danger in the sulphite mill, and should be given due consideration by everybody in authority to improve this condition.

(Continued on page 32)





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In the development of a business, such as ours, catering to foreign as well as domestic buyers, much depends upon a knowledge of what all mills can make. For our mutual good, visit us when in New York City

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DOMESTIC **PAPER**

**"Service in Specialties"**

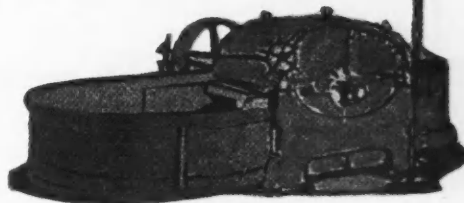
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Our plant at Waterford is ideally equipped for speedy and effective service in colored specialties for all purposes. Try us.

At Cohoes, our new mill is now concentrating upon the manufacture of WATCO Bond in white and colors, which has been received with such marked favor by paper buyers the country over.

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**TUBES AND CAPS  
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**VAT LINED, MILL AND SHEET LINED  
SPECIALTIES, ETC.**

Domestic and  
Export

Mill:  
Albany, Indiana



*Slow to be influenced by heat*

On his little journey through the mill, Bert picked up a hunk of the stuff we use to wax our paper and of course we told him it came from India, because we wanted a wax that was slow to be influenced by heat—that would keep molasses, kisses and lollypops and fine candies in elegant shape even when the sun boils hot.

The de lux book Cy has finished for us is full of pointed things, observed by R. H. the second who wrote most of it for us. Right gladly we will mail you a copy—if you speak up in a letter.

**KALAMAZOO VEGETABLE PARCHMENT CO.**

**KALAMAZOO, MICHIGAN**

*"The World's Model Paper Mill"*

Makers of Bond and Waxed Papers and Vegetable Parchment

## SULPHATE AND SULPHITE HAZARDS

(Continued from page 30)

The handling of lime is an exceptionally disagreeable job, especially in hot weather and the lime bin should be well ventilated and the dust sucked right out. Even at that the lime dust in itself will always attack a man's skin. The men should therefore be instructed to have their jackets buttoned tightly around their waists, a muffler around their neck, and wear muzzles.

After the lime sludge has settled to the bottom of the causticizer, the clear liquor is drawn off by means of a siphon pipe and used directly in the digester.

#### Wet Machines, Etc.

After the stock has been washed in the blow pits or the diffusers it is handled in the same manner in both the sulphite or sulphate mills, either over deckers, wet machines or dry pulp machines. Pulp from the wet machines or dry pulp machines has to be trucked, and as simple as this operation seems to be, it is peculiar to note how many accidents occur during trucking. This, however, does not seem to result from any other cause than the fact that truckers very often are young men who have just commenced to work and still like to play and ride the trucks or they overload the trucks so badly that the loads tip over on them. The handling of wet machines must be considered as a rather safe operation, while the dry pulp machines offer a few more dangers, more similar to those on a slow-running paper machine.

We have now handled the total manufacture of the pulp from the start of logs, and will turn our attention to the manufacture of cooking liquor.

#### Liquor Making

1. *Sulphate*: The cooking liquor in the sulphate mill is a mixture of sodium hydroxide, sodium carbonate and sodium sulphide. The liquor is originally made in the causticizer room, where the solution of sodium carbonate is causticized by means of quick lime. In putting the lime in the causticizer there is always danger of splashing, and as the liquor besides being highly caustic also is extremely hot, these burns are very disagreeable. A bottle of acid acetic should always be kept on hand for immediate application which minimizes the danger.

The sulphate mills always recover their liquor. The process which takes place in the recovery is primarily a process of evaporation; secondarily, purification, and in the third place dissolving.

The first step of evaporation is with a vacuum evaporator, such as the Swenson, Scott or Webre evaporators, with multiple effects. These evaporators have been known to explode and burn the operators severely. This is, however, something which happens very rarely. The main danger in the evaporator room of a sulphate mill is from the escaping gasses, which have a tendency to injure the eyes. The sulphate men have never succeeded entirely in overcoming this danger, but have in later years reduced it to a minimum by piping all condensed water into enclosed sewers outdoors. From vacuum evaporators the liquor passes to the disc evaporator, which is nothing but a big pan in which are revolving large steel disc plates. The whole thing is entirely enclosed and really offers no danger to anybody.

From the disc evaporator the liquor runs into the rotary furnace. The dangers in the rotary furnace are the forming of rings of black ash within the rotary, stopping the liquor from getting towards the front end, while the heat from the smelting furnaces will have a tendency to ignite and melt

the black ash which is in this end. When ultimately a ring breaks and the liquor runs into the molten soda ash in the rotary explosions are very apt to happen. When the liquor has passed through the rotary furnace it falls out on the floor in a dry state as black ash, and the process of evaporation is completed. This black ash contains the sodium salts from the cooking liquor, with the lignin from the wood. This is, with salt cake, shoveled into the smelting furnace, where it is being ignited. The lignin will burn and smelt the sodium salts, which, purified, will drop into molten form as so-called, melt down into the dissolving tanks where it is being dissolved and pumped to the causticizer room.

There are certain trade hazards connected with a smelting furnace. These are blast furnaces, and the blast pipes have water-cooled nozzles. At times these nozzles burn out and the water will run into the melt and cause terrific explosions. Furthermore, these smelting furnaces at times have a tendency to clog at the bottom, so that all the melt which is being made in the furnace does not run out, but accumulates. If the operator does not detect this immediately a good deal of melt will have a chance to accumulate before he gets a chance to run a steel rod in through the opening and unplug same. When he does this the melt will rush out with terrific force and, in striking the solution of liquor in the dissolving tank, there will be minor explosions, with sparks flying in all directions. It is then up to the man to be on the lookout so that he can get out of the way before the melt has had time to reach the tank. It appears plainly that the main thing is to have well-trained and experienced men to do this work. It is also recommended that in each soda recovery there should only be one man designated to handle the water valves for the blow nozzles, so that these never run dry and give chances for explosions.

2. *Sulphite*: In the sulphite mills the cooking liquor is very seldom totally recovered, but new liquor is always being made. Cooking liquor is here calcium bisulphite. Some mills use pyrites, but the most commonly used is sulphur. This is burned in sulphur ovens, either stationary or rotary, to sulphur dioxide gas. With the drafts properly manipulated there is very little chance of any gas here escaping, so the dangers are very small indeed. This gas passes through a cooling plant. During the operation of this cooling plant there is very little danger of accidents happening to the men due to the nature of the process. When the plant is shut down, however, and the cooling system has to be cleaned, the gasses really are very strong, and men have been known to be overcome. These gasses pass through high towers filled with lime-stone, meeting a stream of water or weak acid which absorb the gasses making the acid. The sulphite mill operated by the tower system must have at least two towers, a weak and a strong liquor tower. The strong liquor tower must be tightly sealed at the top, while the weak liquor tower may be left open at the top as long as there is a steam jet to take care of the SO<sub>2</sub> and CO<sub>2</sub> gasses and this tower is being filled with limestone. The greatest danger here is that in unsealing a tower for filling it with limestone, a man might make a mistake of unsealing the strong liquor tower, which will expose him to the danger of being overcome by gas. As these towers are very high and limestone has to be carried to the top, they are always equipped with an elevator. These should always be furnished with a locking device, so that nobody can lower the elevator while the operator is on top.

# The BIRD SAVE-ALL *is Automatic*

## STOCK RECOVERY

The waste water is strained and the stock returned to the point of use all by the action of the Save-All without handling or attention.

## HEAD REGULATION

The Bird Variable Speed Drive for cylinder moulds (patented) maintains a head of stock on the mould by regulating the speed of the mould to the requirements of white water supplied. The cylinder drives at the speed required by the volume of white water furnished and stops if the supply is diverted.

## SHOWER PIPE

A valve in the shower connection is controlled by the variable speed drive so that the shower stops with the cylinder. The consistency of the recovered stock is kept uniform with the practical limits.

## STRAINER VALVE

The Bird Save-All is fitted with the Bird Strainer Valve (patent applied for), a practical, fool-proof strainer that prevents the holes of the shower pipes from filling up and keeps the shower on the job.

These automatic features of the Bird Save-All solve many of the mechanical problems connected with waste water filtration. They make the Bird Save-All as nearly fool-proof as it is possible for the machinery to approach. They are largely responsible for the ability of the Bird Save-All to save stock at a profit.

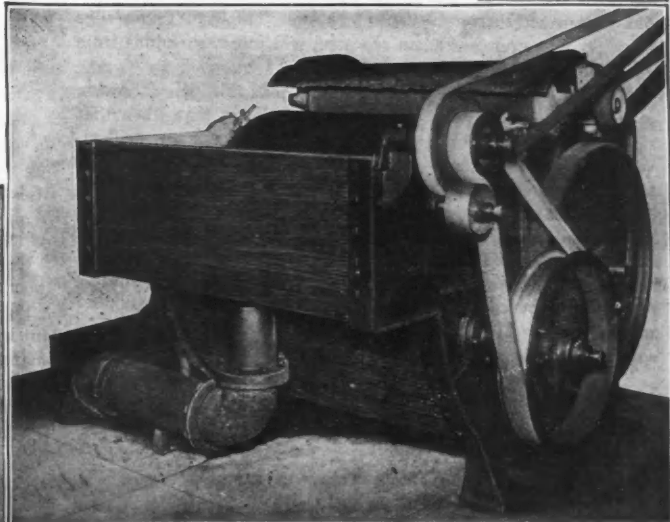
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## BIRD MACHINE COMPANY EAST WALPOLE, MASS.

T. J. Savery, Jr.

Western  
Representative

1630  
Republic Bldg.  
Chicago, Ill.





## POSTER TALK ON SAFETY\*

By AL KROES, SAFETY ENGINEER, EMPLOYERS' MUTUAL LIABILITY INSURANCE COMPANY, OF WAUSAU, WIS.

I am intensely interested in this work of reducing the horrible toll of accidents everywhere throughout our beloved country. For some years back I have come to the conclusion, that after all is said and done, the most important cog in the whole safety movement is "to get close to the men." Now, these six words and what they imply seem simple enough, but mind you, they constitute "some job," big enough and worthy enough for the best man in your midst.

Speaking to men of qualified leadership, men of authority, I came here to tell you, that to get close to the men is distinctly *your job*. Furthermore, the responsibility of accidents in your mill is yours. Don't try to shift the burden, don't pass the buck. It's yours, and without your co-operation the safety movement becomes a dead issue.

Army officers are held to strict accountability for the safety of their men; a captain of a ship feels responsible for the comfort and lives entrusted in his care; a railroad engineer with keen eye is watching the signals by day or in the dead of night. He feels keenly that upon him depend the lives of his passengers and crew. Why then, my friends, should a superintendent neglect his men and their comfort, not to mention the resulting horror of a home destroyed.

That, my friends, is the heritage of being a leader of men; and this splendid Congress is to be congratulated, for including in their various discussions the great worth-while subject of safety in paper mills, in separate sessions.

### Must Be Safety Enthusiasts

Superintendents or safety engineers must be safety enthusiasts and I am sure they will be, if they tackle this safety movement from the right angle.

In the first place we must overcome the superstition of the workmen (some of them) and change these men into enthusiastic believers in safety. Perhaps, you will say that your men are not superstitious. Let us see.

You as superintendents have, undoubtedly, heard some of your workmen say, that accidents are inevitable. I recall a visit to a hospital where a pious old fellow was taken to have his leg amputated. Almost the first thing he said to me—"It was God's will." When I came to the shop where the accident occurred, to look into the cause of this horrible thing, a fellow workman said, "Well, that's the way 'them' accidents go, some day I'm going to get mine." These men must be taught to forget these old time-worn Fifteenth Century ideas. The right knowledge of safety first ever and again repeated, will free their minds from darkness, superstition and fear.

A Chinaman, when he builds a house, puts this sign (showing card) on the ridge pole. He implicitly believes that when that sign is there, no workmen on that job will meet with an accident. Well, but you'll say that's a Chinaman. Wait a minute—William McAdoo when he was the big railroad boss, wrote in one of the journals, that in the American railways there are hundreds and hundreds of brakemen each carrying in his pocket a big fuzzy rabbit's foot. This must be taken from a grey rabbit, shot by a nigger in a cemetery and in the light of the moon, and if it is such, and he carries it on his person, there is no chance of an accident for him. Think of it—superstition is still abroad in our land in this, the Twentieth Century.

### Best Efforts Needed to Stir Men

To overcome that sort of thing you men, as the sheperds of your flock, must begin to realize that this is the Hindenburg

\*Read at the meeting of the Pulp and Paper Section of the National Safety Council, Cleveland, Ohio.

line of accident prevention. Your best efforts are needed to stir your men to action and if you have that fine diplomacy that gets close to the work, the battle is half won. Enthusiasm must replace superstition and all this can be done by teaching the man to pay attention—*sustained attention*. Don't get the idea, that a flurry now and then will be about enough. *Sustained attention*—a regularly mapped out safety campaign full of pep, interest, and variety. Don't dish up the same old sermon every week. What would you think of a minister preaching the same sermon every Sunday? Would you continue to go to church? In my travels I came to a shop recently where the Bulletin Board was adorned with three old posters, one of them half turned down. A big spider had woven his web in front of them and was extremely busy catching his dinner. It reminded me of Mark Twain's story which you, perhaps, may remember.

"In his youth Mark Twain edited a weekly journal in a small Western town. A subscriber wrote to him one day to remark that he had discovered a spider concealed in the folds of the recently delivered paper. The writer wanted to know whether such an occurrence was a sign of good or bad luck.

"The young editor replied in the next issue as follows:

"Constant Reader: The appearance of a spider in a copy of last week's paper was a sign of neither good or bad luck; that intelligent insect was merely studying our columns in order to ascertain whether any store in the neighborhood had failed to advertise in our paper, in order that he might make for that establishment and there weave a web across the doorway, where he might dwell in undisturbed peace."

Safety Posters and cobwebs don't mix at all. Well located bulletin boards are doing fine work but only when kept clean and alive with new material.

Gentlemen:—There is only one way. You must take hold of the wheel yourself and while it is true that there are lots of breakers ahead, a good skipper sticks to the wheel and the ship will weather the storm. Another thing—if your manifold duties make it imperative to give the wheel to some one else, be sure that you pick a good mate. A man who is capable and willing to carry out your policies, a man who understands the human factor and is himself a strong believer in safety work.

Paper-mill accidents are about the same as you find in any other shop. Of course, there are a few special hazards directly connected with the paper industry, but you look over the list of say a hundred or more paper-mill accidents and you are at once convinced that the problem in your mills can be reached by the same cleaning process applied in other shops. And this is the thing you can all use to clean up the foggiest place on earth.

### Will Put New Atmosphere in Shop

*Systematic Organized Accident Prevention* will put your shop in a new atmosphere. Safety First just means good housekeeping. Don't you think your workroom could stand the once-over? It is hardly possible that your machine room is entirely perfect. Would it not be well to take a good look at the digester room or the acid plant?

It has done wonders in the mills of your neighbors. Some of them started with a bit of suspicion but finished with a smile.

Put sunlight into your safety campaign and you will soon find out that the warm rays of that safety sun will play on the barometer of production; and this is all important, as the high curve of production will be closely watched by the man in the "inner sanctum."

Safety First and production are Siamese Twins. They are very closely related. It would not be possible for me to take

(Continued on page 52)



**WWWWWWWWWWWWWWWWWWWWWWWW**

## Now You Can Know—Don't Guess



—if you test every piece of material that goes into your product, and know it is the best obtainable for that purpose

—if you test your own product at various stages of its manufacture, and know its physical properties are all you want them to be, and all your customer expects.

—if you test all your Felt, Rubber, Machine Wire, Wire Screen, Leather—all material—the physical functioning of which effects the quality of your output

—then you know

—then you protect the reputation of your finished product.

**WIDNEY MODULIMETER**  
A TEST  
PATENTS PENDING

**This Instrument Measures  
Every Physical Property  
of Paper**

The Widney Modulimeter measures the Thickness, Tensile, Tearing, and Folding Strength, Hardness, Resilience, Elasticity, Stiffness, Smoothness of Surface—every physical property of paper, giving the results in figures—on the dial, so you know immediately and definitely. Tests can be made machine-wise or crosswise.

The Widney Standard is a great step forward. It puts the paper maker where he can deliver precisely what he contracted for. It tells the paper buyer what to specify, and informs him what he gets.

Let us send you *The Story of the Modulimeter*. You'll find it intensely interesting and practical.

### Shows the Life of Felt, Leather, Rubber, Etc.

Scientists and manufacturers know that the power to recover ("Life") of any material is of the utmost importance, since it directly indicates a material's ability to endure, or wear, under all sorts of conditions.

#### *The Widney Modulimeter Gives This Information*

You can now determine and select just the quality of Felt, Rubber, Leather—any material—that is best suited to give you desired results in your mill.

The possibilities of this instrument can be appreciated only by applying it to your own problems. Tell us the factor you want to determine and we'll tell you how to do it.

## THE WIDNEY COMPANY

*Testing Engineers*

Main Office and Laboratories: 353 So. Jefferson St., CHICAGO, ILL.

**WWWWWWWWWWWWWWWWWWWWWWWW**

# Editorial

Vol. LXIX. New York, October 30, 1919. No. 18

FORTY-EIGHTH YEAR

## Canadian Exports Increase

Canadian exports of pulp and paper continued to increase during the month of August, according to a bulletin just issued by the Canadian Pulp and Paper Association. The exports for the month amounted to \$8,348,179, as compared with \$7,118,398 for August of 1918, a gain for this year of \$1,229,781. The exports of pulpwood for August amounted to \$944,877 as compared with \$1,978,012 for August a year ago, a falling off of \$1,033,135.

The exports of paper and manufactures of paper for August, 1919, amounted to \$4,999,258, as against \$3,845,477 for August, 1918. The exports of chemical wood pulp for August of the current year amounted to \$2,873,186, as against \$2,800,173 for August, 1918. The exports of mechanical wood pulp for August of this year amounted to \$475,735, as against \$472,748 for August, 1918.

The paper exports included 57,817 tons of news print valued at \$4,140,812, the importing countries including the United Kingdom, United States, Argentine Republic, Australia, Brazil, British South Africa, Cuba, New Zealand, Peru and other countries.

Pulp and paper exports for the first five months of the fiscal year fell off \$3,431,118 in value and exports of pulpwood \$3,905,148, as compared with last year.

The exports of paper and manufactures of paper for the first five months of the fiscal year amounted to \$22,531,667, as compared with \$18,332,587 for the same period in 1918. The exports of chemical wood pulp for the first five months of the fiscal year amounted to \$5,756,479, as against \$13,319,092 for the same period in 1918. The exports of mechanical wood pulp for the first five months of the fiscal year amounted to \$2,106,936, as compared with \$2,174,521 for the same period in 1918. The exports of pulpwood for the first five months of the fiscal year amounted to only \$4,205,118, as compared with \$8,110,266 for the same period in 1918.

## Community Taxes

Most men in business to-day are facing a problem of more or less seriousness in the form of community taxes. By community taxation we do not mean assessments on property, school taxes, war taxes, income taxes, or excess profit taxes. But what we *do* mean, is the tax in the way of handling solicitations or "Drives" for this, that and the other. We do not question that these causes are necessary and worthy ones, and our disposition would be to give generously to them all.

But honesty demands that we shall pay our honest obliga-

tions whatever they may be to the extent of one hundred cents on the dollar.

Sometimes it seems difficult to do all we would like to do in the way of philanthropy and still be able to educate our families and provide for future and advancing years.

Then, too, there is no denying the fact that many of the enterprises over-lap, sometimes three and four deep, although on the surface they may not appear to do so.

Lately these "Drives" have not been upon a small or modest scale either, for most of them mount up into the millions and we are asked to pledge not for a single payment alone, but on a basis of four or five years.

Most of us could manage a few of these pledges without undue strain, but when they multiply and multiply the situation causes us to scratch our heads and to wonder.

Then community organizations continue to be multiplied. By the time a man belongs to several clubs, a fraternal secret association, half a dozen co-operative and up-lift clubs he is pretty well tied up in point of time and cash.

We agree thoroughly that the man in business must be public-spirited. But *is it* public-spirited to spread our butter so thin that we have to take a microscope to see that there is any of it anywhere? And are we justified in permitting ourselves to be taxed beyond our financial ability? To be sure we often do not quite *dare* to refuse to go into these things, lest our competitors will say that we are not as prosperous as we might be. So, a certain amount of public opinion spurs us on.

Every man should be a member of a co-operative trade organization. He should have some religious affiliations, political convictions, a recreative out-look, and broad community interests. Even with this he will be busy.

Let each one of us have the courage to place our interest and financial help where we feel that it will do the most good!

We cannot all take part in every worthy enterprise. If you and I help in this one, and give enough to make it worth while, *the other fellow* should have a chance to express himself helpfully in some other field or service.

For business reasons we often do more than we should, but does this really amount to as much as it would to identify ourselves in a more generous measure with a few worthy interests?

Decide for yourself, but have the courage of your convictions.

## Only Thing for Business to Do

The business man of to-day is in a decidedly peculiar position. On the one hand he is likely to be charged with profiteering—over-charging his customers, and with the disposition to take advantage of his faithful help; and on the other, he must face his creditors and be prepared to meet his obligations promptly in the face of all taxes, increased cost of doing business and uncertainty of the market. He is, as it were, between the Devil and the Deep Sea.

Some prophets foretell a greater era of prosperity next year than ever before; and some look for a slump. The increasing unrest on every hand is disquieting. It looks as though there might be more trouble yet before we get back to the level again,

of doing the best we can and everybody being satisfied with that; for there is no denying that we are facing exceedingly serious conditions right in our country to-day.

During the war we were united as a single man; we cannot say that now. The only thing for business to do is to *increase production*, and the only way to do that is to *work* longer hours, or to effect a saving during the present hours by either minimizing waste or bettering the quality of goods now produced. The farmer cannot talk of a 30 or 40-hour week, for he must labor late and early that the world may eat. And because the prices of all he buys and the labor he has to hire have climbed so high, he, too, must retaliate and charge more for the necessities of life which he produces. It is simply a case of cause and effect.

The business man must move cautiously, and he must know *what he can afford to do* and not be forced beyond the margin of safety. Relatively few new businesses are being started now for the simple reason that initial equipment is so high and labor conditions so uncertain.

One business man in the trade has been obliged to grant the request for higher wages all along the line, but to do this he had to let one man go for every seven employed and so his pay roll was maintained at about the same level. He also reached out to increase his trade conservatively, for if he had not done so, he would have been obliged to close his doors.

All along the line we must be wise and look ahead so as to safeguard ourselves and the public we serve. This is patriotism.

### Chattanooga to Have Paper Mill

CHATTANOOGA, TENN., October 27, 1919.—The O. B. Andrews Paper Mills Company is the next important industry to be started in Chattanooga.

Capt. O. B. Andrews, president of the O. B. Andrews Company, announced last night that the stock had practically all been subscribed, and that he was now arranging to close the subscription list. The mill will be built as rapidly as the best experts in the United States can accomplish it. Joseph H. Wallace and Company, of New York City, have been employed to handle the entire construction of the mill. Mr. Wallace has been in Chattanooga for the past week, going over the matter with Captain Andrews. Various waters are being analyzed, and within thirty days Mr. Wallace will submit the building propositions, construction and other plans. The plant will cost \$650,000.

Cushman & Fairleigh, of this city, have been employed by the Wallace Company as the local engineers. Monday the chief engineer of Wallace and Company will arrive, to remain until the details are complete. Mr. Wallace leaves Tuesday for the East, where he will start on the plans and specifications.

Captain Andrews announced last night that he had selected as general manager, subject to approval of the board of directors, A. B. Ayrst, of Wilmington, Del. Mr. Ayrst will come to Chattanooga as soon as the engineering plans are complete.

Location has not been definitely decided upon. Captain Andrews is awaiting the decision of the engineers, who have carefully surveyed the field. It is believed the location will be on Rossville avenue, adjoining the present plant of the O. B. Andrews Company.

All matters pertaining to the mill, its capacity, equipment, etc., is in the hands of Mr. Wallace. He stated last night that condi-

tions here were ideal in many ways, for the construction of such a mill as has been proposed. He predicts that the plant will be one of the most successful enterprises in the South. Practically the entire output of the mill will be consumed by the O. B. Andrews Company, now recognized as one of the largest and most successful box factories in the country.

At present the company is consuming over 70,000 pounds of paper each day, and have just increased their sales force in order to double their present business.

Rarely, if ever, in local industrial history, has a corporation approaching the magnitude of the new enterprise been financed with such ease. Only four weeks ago the directors of the O. B. Andrews Company decided that the time was opportune for the paper mill. Already over \$500,000 has been subscribed to the capital stock of this new company. Many of the leading business men of the city have become largely interested. Many well-known women have made liberal subscriptions to the stock, it was learned yesterday.

Captain Andrews said last night the new mill would be in operation by September, 1920.

### Form Branch of Cost Association

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, MASS., October 28, 1919.—A branch of the Cost Association of the Paper Industry was organized here last week with the purpose of furthering efficient cost methods in the various paper mills. This association is to be known as the Connecticut Valley Branch of the Cost Association.

At a banquet held at the Nonotuck Hotel, evening of October 20, cost accountants representing 15 paper mills in the locality met and formally organized an association which has been for the last year, meeting informally. After the banquet a discussion on the subject, "The Handling and Costing of Material in Process Inventories," was led by John Balch, cost accountant for the Chemical Paper Manufacturing Company, of Holyoke.

The following officers of the association were elected: S. L. Bush, of the Chemical Paper Manufacturing Company, president; G. A. Wilms, of the White & Wyckoff Manufacturing Company, vice-president; John Balch, of the Chemical Paper Manufacturing Company, secretary and treasurer; George Smith, of the Valley Paper Company, chairman Program Committee, and Elmer Cooley, Parsons Paper Company, chairman of the Membership Committee. A constitution and by-laws were drawn up and arrangements for further meetings made.

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## THE ROSIN AND ROSIN SIZE INDUSTRY\*

As the rosin size depends a great deal upon the original rosin from which it is made, it may be well to explain briefly the manufacture of rosin.

The production of rosin is confined entirely to the long-leaf yellow pine. This tree is found in Florida, Louisiana, Georgia, Alabama, Mississippi, South Carolina and parts of North Carolina and Texas.

### Forest Areas Divided Into Farms

These forest areas are divided into turpentine farms, which in turn are divided into drifts of ten thousand five hundred trees each. The extra five hundred are simply to make up any miscount and to insure a full ten thousand. The trees are then scarified; that is, a slab cut from the surface of the tree about eight inches wide and a foot high. This cut is V-shaped at the bottom, with two strips of metal to form the V. These strips of metal protrude out from the tree, forming a sort of run for the gum to follow. It then drops from the lowest point of the V to a cup.

Upon the scarifying or tapping depends the life of the tree. If the tree is cut deep, so much of the gum will exude that it will die. On the other hand, if the cut is made shallow, the tree will live for several years afterwards. When a forest of pine is to be cut for lumber purposes, the cuts are made deep, thus obtaining the maximum amount of gum and doing the timber no harm.

### Tapping the Trees

The first tapping of trees is called the virgin box. From this tapping is obtained the pale rosins such as W. W. W. G., etc. From the second, or yearling box, and the third or pulling box, are obtained the darker grades. The reason for this difference in color does not seem to be quite clear. If a forest is tapped every year the trees will almost invariably die at the end of the third year. If the trees are tapped only every other year the process can go on almost indefinitely.

The process called dipping consists of removing the cups from the trees at intervals and emptying them into barrels placed at convenient places. When the barrels are full they are taken to the still.

In the old way of refining rosin, these stills are of copper and hold from five to ten barrels of gum at a time. The heat is supplied by direct fire underneath the still. This has largely been abandoned, as the rosin becomes disintegrated by the direct heat, giving large quantities of impurities to the rosin which, while they are not always noticeable in the rosin itself, cause considerable waste when used for size. It also in some cases lowers the grade, and fills the rosin full of small charred particles.

### The Improved Process

On the other hand, recent installations such as just completed by the Western Paper Makers Chemical Company at Pensacola, Fla., are much larger, holding seventy-five barrels of gum at a charge and heated by superheated steam. Instead of filtering through wads of cotton as is being done in the old process, the original gum is thinned out with excess turpentine and the diluted solution pumped through a water bath. The wood rises to the surface, and the sand and heavier particles sink to the bottom, and the gum is tapped out under the surface. From

here it goes to the stills, the turpentine distilled off and the rosin tapped out and barreled. Thus it can be seen that a very good clean grade of rosin is produced. No charring or disintegration takes place.

The rosin is then barreled and weighed. The Government inspector does the grading according to a special set of cubes such as I have here. These grades are B, D, E, F, G, H, K, M, W, G and WW. Rosin is sold on a basis of 280 pounds or one-eighth of the old English ton gross weight. The tare consisting of staves, heads, hoops, moisture, etc., amounts to about thirty per cent.

There is another grade of rosin made by extracting old stumps and other pine wood with naphtha and afterwards distilling off the solvent. This method gives a rosin which contains pitch tannin, and all other substances soluble in naphtha. On this account it is unfit for paper making purposes. It gives very poor sizing qualities and affects the color very adversely.

### Factors on Which Rosin Size Depend

From this it can very readily be seen that rosin size depends very materially upon the rosin from which it is produced. The cleanliness, freedom from pitch, volatile matter and substances which adversely affect the sizing qualities, and the color of the paper, of the size are very largely governed by the original rosin.

The effectiveness of rosin size is largely determined by its solubility. This solubility in turn is very visibly affected by the fineness of the particles. Boiling in large digesters where a violent circulation and agitation is constantly taking place, produces a product which is very finely divided and very soluble.

When everything is taken into consideration, there is really no more reason for paper mills to make their own rosin size than there is for these same mills to enter into the manufacture of their own alum, vitriol, or soda ash. In the first place attention has been called to the facts that the sizing qualities of size depend largely upon the solubility and the fineness, especially of the free rosin particles. It is impossible to obtain these same results in a small way. In this same connection, rosin is a material that can vary to a large extent and consequently for this reason no two cars will be alike. Very often there is a wide variation in the same car.

On the other hand, to most of us, the monetary saving is the most convincing. When everything is taken into consideration, a good prepared size can be bought cheaper than any mill can produce it from rosin on a small scale.

### Constituents of the Size

Now, as to the constituents of the size itself. By using the proper amount of soda, a size can be made which contains only a rosin soap, and has neither an excess of rosin nor an excess of soda. This is called a neutral size. By reducing the amount of soda ash, a size is made which contains a certain amount of rosin soap and the balance of the rosin dissolved in this soap and present as free rosin that is not combined with soda. The percentage of the rosin that can safely be carried by this soap is about thirty-five per cent of the total amount of rosin present. If more is present, there is danger of filling up machine clothing and size spots.

It is difficult to say just what percentage of free rosin it is safe to use in a given mill until all the conditions are taken into account and analyzed. Such things as hard water, residual, acid liquors and lime in the raw stock, the use of waste water from the machine to furnish beaters all militate against too high

\* Paper prepared by C. W. Rieser, chief chemist of the Western Paper Makers Chemical Company, and read before the session of the Kalamazoo branch of the Paper Mill Superintendents' Association of America.

(Continued on page 52)



# HOWARD BOND

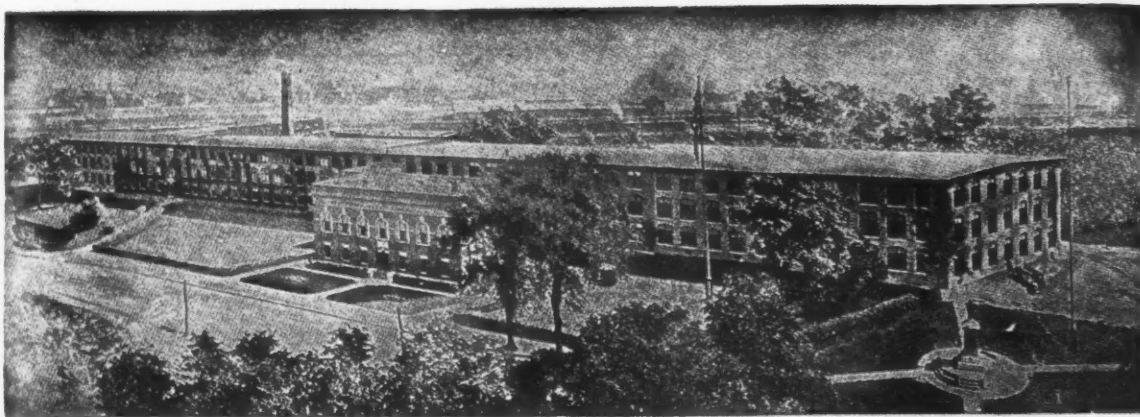
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Seamless Felts both for high speed machines and fine papers

## GOVERNMENT BIDS AND SPECIFICATIONS

(Continued from page 22)

30 reams (15,000 sheets) of 22½x28½—120 manilla tag board; R. A. Cauthorne Paper Company, at \$297.00; Dobler & Mudge, at \$432.00; Mathers-Lamm Paper Company, at \$303.00; George W. Millar & Co., at \$365.40; Old Dominion Paper Company, at \$419.40, \$534.60 and \$290.40; Universal Trading Company, at \$422.28 and \$458.28; Whiting-Patterson Company, at \$342.00; Republic Bag and Paper Company, at \$351.00; and R. P. Andrews Paper Company, at \$409.50 and \$479.70.

200,000, 3x10½" manilla tags; Denney Tag Company, at \$450.00; Mathers-Lamm Paper Company, at \$454.00; George W. Millar & Co., at \$540.00; Old Dominion Paper Company, at \$338.00; Universal Trading Company, at \$536.00 and \$520.00; and R. P. Andrews Paper Company, at \$358.00.

20,000 blue and pink, index bristol tags; R. P. Andrews Paper Company, at \$145.00; and Universal Trading Company, at \$28.70 and \$32.10 per 1,000.

## Government Printing Office Awards

The R. P. Andrews Paper Company has been awarded the contract by the Purchasing officer of the Government Printing Office for furnishing 250,000 pounds of blue safety writing paper in 11" and 22" rolls, at \$212 per pound, bids for which were opened on September 29.

40,000 pounds of 21x32—30 basis wood manilla paper in 21" rolls will be furnished by the Whitaker Paper Company, at \$056 per pound, bids for which were opened on October 1.

The following paper bids have been received by the Purchasing Officer of the Government Printing Office:

1,100,000 pounds of calendered manilla tag board in 24" rolls, basis of 22½x28½—75; Charles G. Scott Company, at \$.082 and \$.077 per pound; Dobler & Mudge, at \$.0799; George W. Millar & Co., at \$.0803, \$.0753 and \$.0814; Carter, Rice & Co., at \$.0749 and \$.0699; Whitaker Paper Company, at \$.0794 and \$.0744; and Domestic Mills Paper Company, at \$.0793, \$.0743, \$.075 and \$.07.

23,650 pounds (500 reams) of various sizes of white and blue writing paper; D. L. Ward Company, at \$.26 per pound; Stone & Andrew, at \$.21375; George W. Millar & Co., at \$.22, \$.234, \$.255, \$.18 and \$.19; Merriam Paper Company, at \$.18, \$.245 and \$.195; R. P. Andrews Paper Company, at \$.1745 and \$.1845; Whitaker Paper Company, at \$.19; Aetna Paper Company, at \$.1549 and \$.1649; American Writing Paper Company, at \$.1635, \$.168 and \$.1665; and Strathmore Paper Company, at \$.22 and \$.23.

21 reams of 28x36—200 manilla paper, water finish; George W. Millar & Co., at \$.1125 per pound.

2,500,000 pounds of cream bristol board, in 44½" rolls, basis of 22x28—100; American Paper Company, at \$.0965 per pound.

350,000 pounds of No. 1 white machine finish printing paper in 19" rolls, basis of 25x38—35; American Writing Paper Company, at \$.099.

330,000 pounds of white S. & S. C. printing paper in 38" rolls, basis of 25x38—45; American Writing Paper Company, at \$.0995; and Whitaker Paper Company, at \$.0875.

6,000 sheets of 24x36" white cloth lined paper; Nashua Gummed and Coated Paper Company, at \$.1675 and \$.205 per pound; Mathers-Lamm Paper Company, at \$.1655 and \$.2344; R. P. Andrews Paper Company, at \$.164 and \$.2055; Dobler & Mudge, at \$.175 and \$.21; Domestic Mills Paper Company, at \$.2244 and \$.228; D. L. Ward Company, at

\$.225; Merriam Paper Company, at \$.185 and \$.225; Carter, Rice & Co., at \$.1675 and \$.205; George W. Millar & Co., at \$.185, \$.225 and \$.245; and Edward R. Grossman, at \$.215.

## Mt. Holly Springs to Reopen

A press dispatch from Carlisle, Pa., says: "Mount Holly Springs again is to have its paper-making industry and the little mountain town, known far and wide as a paper-manufacturing town, will be on the map. The people of the borough, which is six miles distant from this place, are happy over the prospect. The mills were closed about six years ago, throwing a large number of persons out of employment.

"The Upper Mill property has been sold to James M. Miller, of Reading, for \$25,000 and men are at work making extensive repairs and improvements. Very soon the wheels will hum as in former years. The Lower Mill has been bought by New England manufacturers and here, too, needed improvements have been made. The plant will have its own water supply, artesian wells having been bored. New machinery and improved buildings will make the place practically new. The company expected to start this mill running to-day.

"The reopening of the mills means a big thing to Mount Holly Springs. For many years the Government used tons of 'Holly' paper and the product had a reputation all over the country. It is believed both mills will give employment to 200 people or more."

## PULP OPPORTUNITY

Established Merchants have an opportunity for a High-Class Executive to assume direction of their Pulp Department. Must be fully conversant with Foreign and Domestic Pulps and be entirely familiar with the requirements of the paper mills in the United States. Would pay the right man \$10,000.00 per annum with the privilege of participating in the profits of this department. We will consider only those who are actively engaged in this work and who are thoroughly qualified. Your application will be treated in the strictest confidence.

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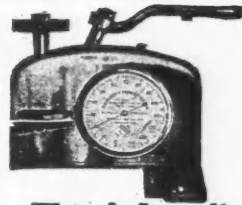
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## PAPER MEN AND PUBLISHERS IN CANADA GET TOGETHER

(Continued from page 18)

recently the effort to secure the security has gained a momentum and as a result transactions have been on such a large scale that the price has been forced up in a very substantial manner.

It is true the public are now becoming a larger factor in the buying of the stock but this buying is, undoubtedly, induced by the realization that there is something important developing in connection with the Wayagamack Company, and that the buying of the stock is a prelude to such development.

In this connection it has been rumored that interests connected with the Laurentide Company have been accumulating Wayagamack, with a view of endeavoring to make a rearrangement of timber limits. At the same time it is pointed out that a consolidation of Laurentide and Wayagamack is the more likely because of the fact that the Wayagamack limits are situated only ten miles away from those of Laurentide, and afford excellent shipping facilities.

It has always been recognized in pulp and paper circles that a consolidation of the companies operating on the St. Maurice river would effect an enormous saving in lumbering operations.

As to the facts that might induce an endeavor to control Wayagamack, it is interesting to point out the strong position the company now occupies. The limits are now carried at a value of \$4,000,000; proceeds of bonds are placed at \$3,100,000; earnings reinvested, \$2,500,000, and working capital of \$2,000,000, a total of \$11,600,000, against which there is a bond issue of \$3,500,000, leaving an asset value of \$8,100,000, against \$5,000,000 of common stock. As there is no preferred issue, the balance gives the common stock a book value of over \$160 a share.

### Chandler Mill Increases Output

The past few months have seen very steady gains in the output of the various mills of the Saguenay Pulp and Power Company and during the past summer the problems of the Chandler Mill have been those which have received most attention from Mr. Dubuc and his associates. It is now stated that the output of this mill has been increased to 130 tons, as compared with approximately 80 tons a day last June. The mill is a 130-ton mill, but it is figured that with careful handling an output of a total of 140 tons a day will gradually be obtained.

### Trade School at La Tuque

A drawing and trade school is to be established by the Provincial Government at La Tuque, Que., where the principal industry is the manufacture of pulp and other wood products by the Brown Corporation. The school will be opened in November.

### Camden Paper Mills

The Camden Paper Mills, of Camden East, Ont., have come into the limelight again with the announcement in the papers that L. F. Houpt of Buffalo, N. Y., and others associated with him, have purchased the mills and that it is the intention of the new interests to convert the product of the plant into news print in the near future. For some time the mills have been turning out kraft and wrapping paper.

### Bathurst Paper Mills to Build Power Plant

The Bathurst Lumber Company of Bathurst, N. B., has decided to construct a new power plant for its pulp and lumber mills. This plant will develop Grand Falls on the Nepisiguit river. The current will be transmitted over a transmission line, with steel poles, to Bathurst, a distance of over 19 miles. Two units will be installed, provision being made for a third. Each unit will be 4,500 h. p. The turbines will be of the vertical

umbrella type, direct connected to generators and will work under a head of 100 feet. The dam and power house—the former 450 feet long—will be constructed of concrete. William Kennedy, Jr., of Montreal, is the hydraulic engineer, and Dr. L. A. Hurd, Montreal, the electrical engineer.

### Defends Northwestern Lumber Men

SYRACUSE, N. Y., October 27, 1919.—An eastern forester has come to the defense of the northwestern lumbermen who are accused of undue waste in the spruce forests during the war.

"What Congressman Walter W. Magee of Syracuse said in a newspaper interview about the amount of spruce left on the ground to rot in the northwest is all true," said W. E. Sanderson of The New York State College of Forestry at Syracuse, "and the condition of the lumber industry in the west is the best possible lesson to New York State in the need for proper forestry methods here in the east."

Mr. Sanderson has returned from the west to join the Extension Service of the College of Forestry after serving in the Spruce Production Division as a second lieutenant, his work being in the technical branches of the division because of his training as a forester. Congressman Magee told of the rotting spruce in the western forests upon his return from a probe, made by a congressional committee of which he was a member, into charges involving the spruce production work.

"The west to-day is burning enormous quantities of what in the east we would call most valuable timber," added Mr. Anderson, "because of the difficulty of transportation, and also because there is such an enormous quantity of timber that it seems as though it would last forever. New York's timber has been cut in the same way for the same reason in the past, and our spruce for paper production is rapidly becoming exhausted.

"In considering the waste of spruce in the west, however, it must be remembered that a large part of the loss, the timber left to rot in the woods, is the ordinary wastage of war. Uncle Sam demanded only the best quality of spruce for aeroplanes, the most perfect timber, that the lives of his aviators might not be unnecessarily sacrificed in crashes due to inferior spruce in wings and braces. The demand for a large amount of perfect aeroplane spruce meant that only the best was taken out, and much of the balance left because the war pressure was more important than the future economic value of what was not being taken to the mills.

"The west is not ignorant of the possibilities of its spruce, and a great mill has been erected at Port Angeles, Wash., to manufacture western spruce into pulp and paper, with particular efforts to utilize what is now mill waste."

### Paducah Paper Company Opens for Business

PADUCAH, Ky., October 27, 1919.—The Paducah Paper Company, recently incorporated by Messrs. C. E. Miller, H. D. Peter, Otie Overstreet and Robert Overstreet, has opened up at 123-125 North Second street. The firm will do a general paper business, handling all grades and qualities of wrapping paper, and catering particularly to groceries, druggists, general stores and manufacturers. The company also carries a full line of twine, paper bags and wooden ware of best quality at reasonable prices.

Mr. Miller is president of the company, Mr. Peters vice-president and Mr. Overstreet secretary and treasurer.





# PARAGON- EXCELSIOR

WE are the largest washed clay producers in America, the daily capacity of our five plants exceeding 300 TONS DAILY.

Our *reserve stocks* are the largest in America.

Our *experience* in clay washing extends many years beyond that of our nearest competitors.

Our clay is positively the lowest in percentage of grit and moisture in any clay, *domestic* or *foreign*.

# CLAY

When you contract with us for shipments you can depend upon *prompt deliveries* whether the season is rainy or dry.

Our crude clay is mined from the Famous Paragon Mine at Langley, S. C.

That, in a few words, is our story.

*We hope to serve you.*

**MINER-EDGAR COMPANY**  
30 CHURCH ST., NEW YORK

E.W.N.-D.B.-G.W.-K.L.M.

### Herrbold-Keelan Co. Incorporates

The Herrbold-Keelan Company with \$200,000 capital, fully subscribed, has filed articles of incorporation with the Secretary of State, at Lansing, Mich. The original incorporators are William A. Herrbold, Charles A. Keelan, respectively master mechanic and superintendent of the Superior Division, Bryant Paper Company, and L. W. Sutherland, president of the Sutherland Paper Company.

The object of the new company is the manufacture, sale and lease of the Herrbold de-inking, defibering and washing machine, a contrivance that has been given the most rigid tests for the past thirty days in the Superior Mill and that promises to revolutionize certain operations in the manufacture of paper. During the period of operation, the machine has been inspected by paper mill engineers and experts from all over the country and is declared to be a decided improvement over any similar machinery now in use.

William J. Herrbold is the designer and inventor of this device and has worked steadily for nearly four years perfecting it. The complete equipment operates almost automatically; that is to say, all stock is handled by pumps through pipes. The original paper, after passing through the sorting and dusting room, is dumped into the first vat, where it is disintegrated and piped into the de-inking and defibering tank. Agitators keep the stock in constant motion, insuring a direct application of the de-inking liquors to every piece of stock so treated. In addition the defibering process is done so the fibre is retained, thus giving a much greater strength to the manufactured sheet of paper. The de-inking vat has the added virtue of being enclosed, thus eliminating the clouds of steam that rise from the old-fashioned, open-bleach tubs.

"Pulling bleachers," considered the toughest job in a paper mill, is done away with, as the stock, after the de-inking and

de-inking processes, is pumped through pipes into vats below, where it is kept in constant motion by agitators and the proper amount of water added. Next it is pumped into the washer, a contrivance about four feet wide, a similar height and ten or twelve feet long. The washing process takes place here, a clean, white stock resulting. Experiments made to date show that one Herrbold washer will do the work of three ordinary washers, not only at a great saving, but also produce better results in every way.

Mr. Herrbold has had numerous opportunities to sell the machine outright, but his wish has been to have it manufactured in Kalamazoo, thus being a party in controlling the distribution and at the same time establishing a new industry in the city. The machine now in use at the Superior Mill is entirely of his own construction. At this time he is working on several other paper mill contrivances and is assured of patents at an early date on one or more of them.

### To Investigate Jute Burlap

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., October 27, 1919.—At the request of the War Department, the Paper and Textile Sections of the Bureau of Standards will undertake an investigation of substitutes for jute burlap for the making of sandbags and for camouflage work. Jute burlap will be used as a standard and the substitutes must at least equal it in strength and durability. It is desired to obtain a material produced in this country, so that there will always be a large supply on hand. Sisal hemp and low-grade cotton fabrics, reinforced paper, crinkled and smooth paper will be tested. The investigation will comprise both laboratory and field tests which will be intended to duplicate service conditions. Samples of available materials are being obtained and the investigation will be started as soon as these are received.

## The Sandy Hill Iron & Brass Works Hudson Falls, N. Y.



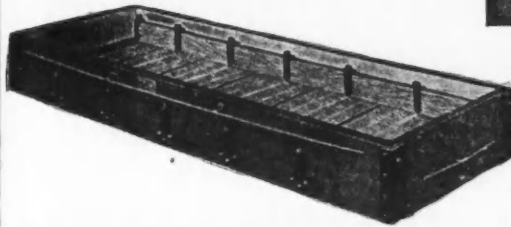
Manufacturers of **Paper and Pulp  
Mill Machinery**

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

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

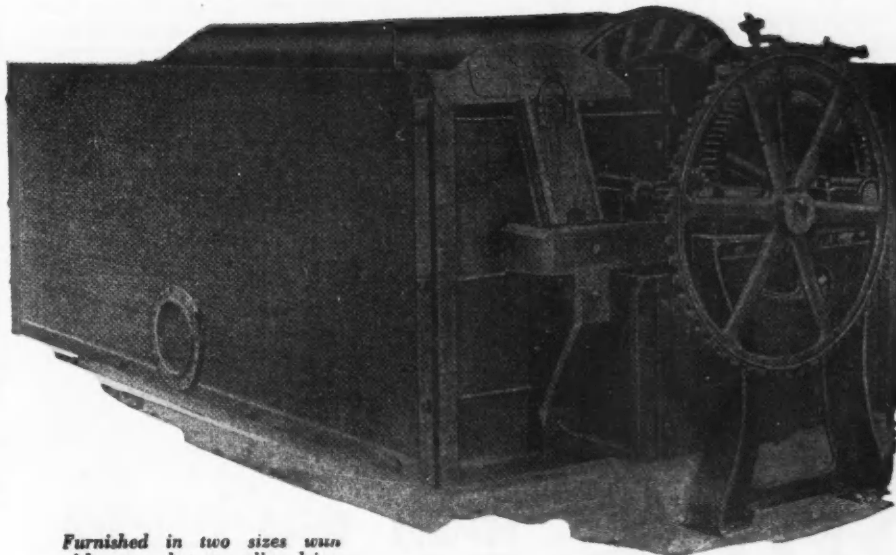
**UNION SCREEN PLATE COMPANY**

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



**UNION BRONZE SCREEN PLATES ROLLED BRASS**  
 (Best phosphorized Cast Metal) (Union Quality)  
 Old Plates RECLOSED and RECUT to accurate gauge.  
**UNION BRONZE SCREWS** for Screen Plates  
**UNION BRONZE SUCTION BOX PLATES**  
 Immediate Delivery of the Largest Orders. Satisfaction Guaranteed.  
**The WITHAM SCREEN PLATE FASTENER, Patented**  
 THE ORIGINAL THE BEST  
 Over One Thousand in Successful Operation Recommended by Screen Makers

**THE WOOD'S MACHINE**

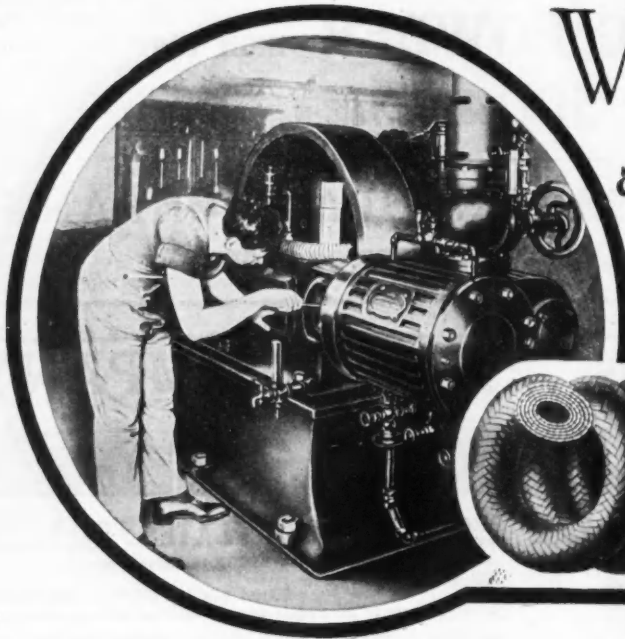


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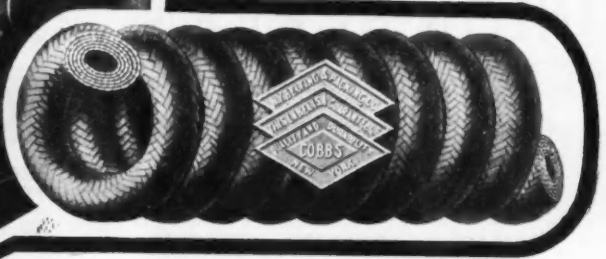
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 Construction—Built for  
 Service.

Furnished in two sizes with  
 either sprocket or pulley drive.

**MADE BY GLENS FALLS MACHINE WORKS : GLENS FALLS, N. Y.**  
 Try our Split Cams for your Flat Screens.



Where Pressures  
and Temperatures  
are High



COBBS  
RING PACKING  
(SQUARE)  
STYLE 283

You can depend on Cobbs packing in all cases to hold the pressure and to withstand the effects of oil and heat.

For its construction is particularly suited to the hardest kind of service.

The live rubber core will remain elastic, expanding under heat to hold the packing against the rod with sufficient pressure to prevent leakage.

The wear resisting asbestos cover of Cobbs Packing is made of the

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The lubricant with which it is saturated gives it a smoothness that is guaranteed against scoring or wearing the rod.

Cobbs packing is furnished both round or square in spiral form or in rings.

For satisfaction, use Cobbs High Pressure Packing on Stationary and Marine Engines, Corliss Valves, Throttle Valves, Air Pumps, Air Compressors, etc.

*Complete information with samples  
will be sent on request*



**NEW YORK BELTING & PACKING CO.**

MECHANICAL RUBBER GOODS

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**CENTRAL MANUFACTURING COMPANY**  
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**High Grade Brass and Bronze Screen Plates and Dandy Rolls**

OLD PLATES  
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DANDY ROLLS AND  
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 For All Uses**

For special purposes. For general purposes. Large or small. Round or rectangular. All built strictly according to approved engineering principles by men who have been designing and building tanks for thirty years.

No leaking. No bulging. No breaking. Whenever you see the name Caldwell on a tank it is a sign of good, long, honest tank service.

A Caldwell Rectangular Tank is illustrated. Whatever your requirements are, we can meet them.

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 AND  
 TOWERS

**Starch**

Paper manufacturers generally recognize the value of starch in the manufacture and coating of paper.

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

Our carefully controlled and thoroughly standardized processes enable us to produce exactly the various starches which the paper industry has found economical and efficient.

Corn Products Refining Company  
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**Starch**



Showing ease with which Plibrico is laid in place.

**In Building Your Boiler Furnace Lining Use  
 Plibrico Jointless Fire Brick**

It will outlast any fire brick. An ideal material for front door arches, side walls, combustion chamber linings and bridge walls. It's Jointless. Makes your furnace Airtight and Saves Coal.

Write for free copy of our 36-page book of useful information on furnace building and maintenance

Manufactured exclusively by

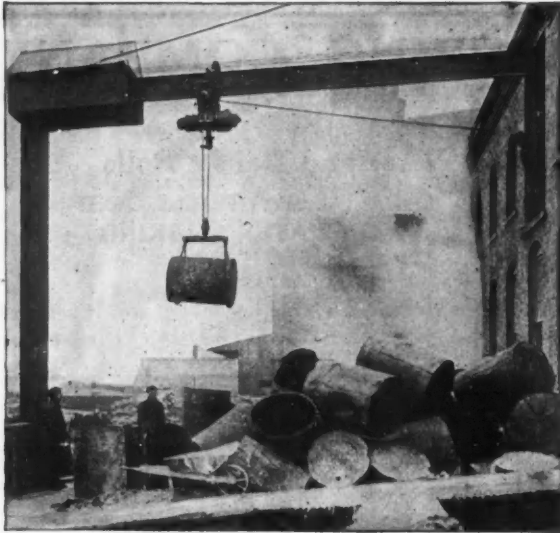
**JOINTLESS FIRE BRICK CO.**

Kingsbury and Clay Sts., Chicago

Beveridge Paper Company, Ltd., Montreal, Canadian Representative



TRADE MARK



## Indoors and Out

A Shepard Electric Hoist works with equal speed and efficiency. Working parts both electrical and mechanical are enclosed in a damp-proof, dirt-proof, storm-proof housing. All gears operate in an oil bath—maintenance cost is reduced to a minimum.

The average workman can operate a "Shepard"—the control is simple and fool-proof throughout.

Our engineers will gladly assist you in laying out a time-, labor-, and money-saving hoisting equipment for your plant. Shepard line includes Electric Cranes and Hoists in capacities of 1 to 30 tons.

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Member Electric Hoist Mfrs. Assn.

2077-S



### Trust to Control Spanish Paper Market

OTTAWA, Ont., October 20, 1919.—The Department of Trade and Commerce prints the following story: "It is reported that a new trust to control the entire paper market of Spain is in progress of formation. The present offices maintained by La Papelera, the so-called paper trust, will be discontinued, their place being taken by a mercantile society of limited liability of which all manufacturers of whatsoever class of paper will be members. The new company will have control only of the sale of paper and will not be concerned with the manufacture of same.

"It is said that the new organization will start operations at the beginning of 1920, that it already is assured the co-operation of all paper-making organizations and firms and that committees are at work to determine what action should be taken to give to the industry the strongest manufacturing mercantile, financial and legal position.

"All purchases of Spanish paper will have to be made through the trust and all sales must be made through its mediation. It is planned, therefore, to eliminate all competition in prices. The sharp rise which has recently occurred in the quotations of the shares of La Papelera, the present paper trust, is attributed to the favorable reception which the plans for the new organization have received. There is a strong feeling among Spanish paper manufacturers in favor of greater protection to the domestic paper industry; and the proposed organization would be a decided asset in urging such claims upon the Cortes, which at the end of this, and the beginning of the next year, will have the new tariff bill under consideration.

### British Columbia Pulp in Demand

A press dispatch says: "British Columbia bleached pulp is now in growing demand in eastern markets. It is known for its cleanness, whiteness and purity. The Pacific coast spruce from which it is made is one of the strongest fibered pulp woods known. Vancouver companies, such as the Whalen Pulp and Paper Company, have set to the task of making sulphite pulp not as a byproduct and collateral issue of the lumber trade, but as a separate and independent industry, paying its own way and conserving its capital resources for its own development. British Columbia is a well-nigh inexhaustible reservoir of pulp timber, with an area and content to this day not definitely cruised and surveyed but merely generalized. The supply immediately available to established mills, with water haul one way and three transcontinentals the other, gives to this industry great future promise.

### No Meeting Yet of News Print Committee

WASHINGTON, D. C., October 27, 1919.—Senator La Follette of Wisconsin, chairman of the Manufactures Committee of the Senate, and also of the sub-committee which is to investigate the news print industry in connection with the so-called Reed resolution, has not, up to this time, called a meeting of his sub-committee to consider procedure.

White the Senator has made no definite statement, it is understood that the matter will not be taken up until after the Peace Treaty is out of the way, and if the rumors current be correct, Congress will adjourn about that time. This means, that it will be well into December before any action will be taken in connection with the news print hearings.

### Horwitz Brothers to Expand

ELMIRA, N. Y., October 20, 1919.—Horwitz Brothers, 211-213 Baldwin street, dealers in paper and cordage, intend to install a complete line of fine papers and general line of printers' supplies in the paper and cardboard line.

**HAMMERMILL  
BOND**

**HAMMERMILL  
COVER**

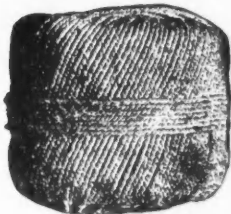
**HAMMERMILL  
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**HAMMERMILL PAPER CO.**  
**ERIE, PENNSYLVANIA**

EASTERN OFFICE      291 BROADWAY      NEW YORK CITY

# "AMERICAN" TWINES



Paper Makers' Twine

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Fine and Coarse Polished Twines

Manila Rope

Transmission Rope



*For Prices Write Department M*

## American Manufacturing Company

Largest Makers of Commercial Twines and Rope in the World

*Mills and Sales Office:*

**NOBLE AND WEST STREETS,      BROOKLYN, NEW YORK CITY**

## New York Market Review

OFFICE OF THE PAPER TRADE JOURNAL,  
WEDNESDAY, OCTOBER 29, 1919

The New York paper market is rapidly drawing to a point where all orders are taken subject to acceptance by the mill. Jobbers are finding a decided shortage in most grades of papers, especially news print, while paper makers' supplies, in many cases are going up with proportionate rapidity.

There is still an alarming shortage of news print, and unless there is either an increase in the supply of news print, or a decrease in the amount of advertising, newspapers will be forced to cut down the size and number of pages for sheer lack of paper, as some of the English papers have done. News print is selling at 6 cents and better, some orders as high as 6½ cents being noted, for spot delivery. Sheets are almost out of the market, and although there is still a small quantity of rolls still available for spot delivery, consumers consider themselves fortunate to obtain it at any price.

Book paper has maintained its strong prices, and active trade all through the printers' strike in New York. There seems to be no probability of any drop in that market, while on the contrary, some dealers are of the opinion that at the settlement of the strike, prices will strengthen.

There has been little change in the coarse and tissue markets recently. Trade has been quite active, and the prices firm and strong.

### Mechanical Pulp

The ground wood market has reached a "Button, button, who's got the button?" situation—with no button in the game. Just as news print is practically out of the market, so is mechanical pulp. The scarcity of mechanical pulp has been noticeable for several weeks, but it has now reached a point where it simply can't be obtained. A very few orders have been filled, but the pulp was stored, and of an inferior grade, while the prices were, in most cases, ridiculous.

### Chemical Pulp

Like most of the paper makers' materials and supplies, there has been an increase in the price of most of the grades of chemical pulp this week. All grades, including the foreign, are in strong demand, and dealers seem willing to pay increased prices in order to fill their contracts. Large shipments of Scandinavian pulp are now being held up by the harbor strike, it is reported, which fact may have some effect upon the market.

### Rags

The rag market has been unusually quiet this last week, and, for that matter, for the month past. There is a steady, slow trade, but there is not the boom characteristic of the other markets. Prices have, if anything, declined since last week, several grades having shifted slightly, mostly downward.

### Old Ropes and Bagging

Like rags, old ropes and bagging are still rather slow. Prices are about the same, a few slight changes in the market having occurred, but none of any particular significance. Dealers report that trade is slow, but steady, and prices rather vacillating.

### Paper Stock

Paper stock trade is slightly better than the rag market, it is reported. Dealers have had fairly good orders, and prices, in some instances, have strengthened. But the general market seems to be rather slack, for the present rush business so evident in most other lines. Trade seems to be almost desultory, and

while there are some heavy shipments, most of the trading seems to be in small quantities.

### Twine

The twine market is still very strong. Trade is reported active, and prices strong, with an upward tendency. This is one of the few markets that has been stationary for over a month. Despite this fact, the prices seem to promise higher levels, unless twine manufacturers' supplies can be shipped in soon.

### Mill Mechanic Badly Injured

NIAGARA FALLS, N. Y., October 16, 1919.—Frank Strong, master mechanic at the Kinleith paper mill, is in the General Hospital in St. Catharines, Ont., in a precarious condition as the result of being shocked by 2,000 volts of electricity while at work last Monday. But little hope is held out for his recovery. Mr. Strong climbed a ladder in the mill, carrying an iron rod in his hand. The rod touched a heavily charged electric wire and a connection was formed. Mr. Strong tried unsuccessfully to release himself. All efforts of workmen to break the current failed. A physician was called and found it necessary to cut the man's hands free. Mr. Strong's elbows and hands were burned to the bone. He was unconscious for hours. The attending physician says the fact that Mr. Strong was standing on a wooden structure, possibly saved him from instant death.

### To Make Pulp from Marine Plants

WASHINGTON, D. C., October 29, 1919.—The following report has been received from Japanese sources relative to obtaining pulp from the sea:

"The project for the establishment of a marine pulp manufacturing company is reported from Tokyo. It appears that considering the feasibility and the profitableness of manufacturing pulp from the inexhaustible stocks of marine plants, a party of Tokyo business men are starting a concern with a capital of \$2,000,000 for the manufacture of pulp and paper, besides handling a wholesale business in all sorts of paper. The company will be called the Dai Nippon Kaiso (marine plant) Pulp and Paper Manufacturing Company. The public will be invited to subscribe for part of the shares which will be put on the market in the near future."

### Employees Have Right to Picket

OSHKOSH, Wis., October 27, 1919.—A decision handed down here by Circuit Judge Byron B. Park, dissolving an injunction brought by the Nekoosa-Port Edwards Paper Company against Nekoosa International Brotherhood of Paper Mill Workers, the court held the opinion that the presence of armed guards, used for protection of property and strike-breaking employees, is not responsible for unlawful conduct on the part of striking employees; and the rights of employees to strike, picket and persuade (without coercion or intimidation, however) other employees to leave work and join them, are recognized.

### Activity in Timberland Circles

OLD TOWN, ME., October 27, 1919.—James W. Sewall reports that there seems to be considerable increased activity in timberland circles in the northeast. His business of estimating and valuing timber reflects such activity to a marked degree and forms a fairly good barometer of conditions. His office is engaged in surveying and estimating the pulpwood and lumber on over 700,000 acres of land scattered from New York through New England to the very northern end of New Brunswick. Ordinarily at this time of year timber cruising work becomes quiet.



Market Quotations

Paper Company Securities

New York Stock Exchange closing quotations, October 29, 1919:

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

BONDS.

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

Paper

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

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

Foreign Rags

Table listing foreign rag products like New White Cuttings, Unbleached Cottons, etc.

Mechanical Pulp

Table listing mechanical pulp products like F. O. B. Pulp Mills, No. 1 f. o. b. Mill, etc.

Chemical Pulp

Table listing chemical pulp products like Sulphite (Foreign), Bleached, Easy Bleaching, etc.

Domestic Rags

Table listing domestic rag products like Shirt Cuttings, New White, No. 1, etc.

Bagging

Table listing bagging products like Gunny No. 1, Domestic, Foreign, etc.

Twines

Table listing twine products like India, No. 6 basis, Dark, Light, etc.

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

Old Waste Papers

Table listing old waste paper products like Shavings, Hard White, No. 1, etc.

CHICAGO

[FROM OUR REGULAR CORRESPONDENT.]

Paper

Table listing Chicago paper products like Mill Price to Jobbers, Rag Bond, Sulphite Bond, etc.

Old Papers

Table listing Chicago old paper products like Shavings, No. 1 Hard, No. 1 Soft, etc.

BOSTON

[FROM OUR REGULAR CORRESPONDENT.]

Paper

Table listing Boston paper products like Bonds, Ledgers, Writings, etc.

Wood Pulp Board . . . 75.00 @ 87.50

Old Papers

Table listing Boston old paper products like Shavings, No. 1 Hard, No. 1 Soft, etc.

(Continued on page 54)

### News of the Ottawa Trade

[FROM OUR REGULAR CORRESPONDENT.]

OTTAWA, ONT., October 27, 1919.—Prominent paper and lumber manufacturers are identified with the local organization for the Victory Loan drive which is about to start. C. Jackson Booth, J. Fred Booth, J. R. Booth of the Booth Mills; Hon. E. H. Bronson, Bronson Pulp Co.; Hon. W. C. Edwards, Gordon C. Edwards, Sir Henry Egan, J. B. Fraser, W. C. Hughson, Hon. M. J. O'Brien, Sir George Perley, leaders in the lumber industry, and George H. Millen, president of the Eddy Mills, are the various committees. H. I. Thomas, purchasing agent of the Booth Mills, is chairman of the Speakers' Committee; John R. Booth is honorary chairman of the Employees' Committee.

Increased demand for labor and an upward tendency in wages in some callings, indicating that there is plenty of work available in Canada, is shown by the latest employment figures given out by the Government Labor Department. Out of 3,423 ex-soldier and ex-sailor applicants for work in one recent week, 3,285 were referred to vacancies. Up to date 87,687 ex-service men have applied for positions and 82,962 or 94.6 per cent have been placed by the government offices. There is such a demand for this labor that the wages of bushmen have advanced to \$75 a month and all found, which is a record for this industry.

J. H. Burnham, M.P. for Peterboro, has given notice in the House of Commons that he will move for an extension of the provisions of the Prohibition Act so that the peoples' vote can be secured not only in connection with the use of liquor, but also, among other things, the use of playing cards, feathers of wild birds on articles of dress, tobacco, etc.

Flags flew on all the buildings of the E. B. Eddy Company last Thursday in honor of the eighty-first birthday of Mr. George H. Millen, the venerable and esteemed president and manager. The country house staff presented Mr. Millen with a lovely basket of American beauty roses, one for each year. During the morning Mr. Millen received many congratulatory messages from various parts of the country.

Among recent incorporations are Lumber and Pulpwood of British Columbia, Ltd., capital \$1,000,000, head office, Toronto; Triangle Lumber Co., capital \$500,000, head office, Toronto; Canadian Vegetable Parchment Co., Ltd., capital \$150,000, head office, St. Catharines, Ontario.

### ROSIN AND ROSIN SIZE INDUSTRY

(Continued from page 38)

free rosin. For certain grades of paper such as very light-weight bond and other similar grades, it is generally thought best to use as high free rosin as other conditions will allow.

The same must be said of alum. Hard water, residual, lime in the pulp all require alum for neutralization. In fact, these factors require more alum in most cases than the size. The argument of economy in alum is often advanced for high free rosin sizes. Theoretically this is true, but for all practical purposes there is very little if any difference. For a mill using twenty-five pounds of seventy per cent size per beater, it would make a difference in the soda ash content of a little over one pound, which in most cases would never be found. Enough alum should always be used to turn blue litmus paper distinctly red.

#### Foaming on the Machine

Foaming on the machine is caused by insufficient alum in the beaters, residual acid liquors in unbleached sulphite or in water, or if return waters are used to furnish beaters, too much alum will cause foaming. Some colors will often cause foam. There are a great many antifroth compounds on the market. Some of these, such as kerosene, are insoluble in water. These, especially kerosene, are very harmful for the size and tend to soften the

sheet. The best antifroth compounds are water soluble. These do the sizing no harm, and while the initial expense is greater, the final cost is less.

#### Two Methods of Using Size

There are two methods of using size—direct to the beater and emulsifying. In a great many cases it is just as good to add the size direct to the beater. In cases, however, where very high grades of paper are made, it is generally thought best to emulsify before adding to the beaters. This can be done in a number of ways. The size paste should in all cases be hot before diluting. A tank equipped with steam coils is suitable for this. From this tank it can be run into another tank partly filled with hot water and equipped with an agitator. The mixture should then be stirred until all of the size is dissolved. The tank is then filled to the desired mark with cold water and well stirred. The size can also be run from the melting tank through injector systems and emulsified directly. This is the most convenient, as no power is necessary and the tanks can be of any desired shape. It also gives a very fine emulsion. In handling size, whether in the form of a paste or an emulsion, care must be taken that no steam can come into contact with it, as this will separate rosin and cause trouble not only in the finished paper but also in the machine clothing.

### POSTER TALK ON SAFETY

(Continued from page 34)

up all phases of this great question. Of course, you will meet some fellows who are unbelievers, the fellow who can't see the use of safeguards because he never did bother with these new-fangled things. Tell this man, that because his grandfather never had a bathtub is no reason he shouldn't have one. This old World is moving. The first fellow only flew thirty feet in an airship and then broke his neck. Now, they go 4,000 miles in seventy hours and the only thing they break is a record.

Finally, you will spell the word "HOME," the finest and best word in the English language.

#### Will Add Happiness to Fellow Workers

My friends, every ounce of effort you put into this safety movement is adding happiness to the home of your fellow workers. For every man with red blood and a normal heart-beat, will do the safe thing for home and mother and for the kiddies who are waiting by the gate to welcome Daddy, when the day's work is done.

And right there, my friends, you are reaping your reward. All of you curse the accident after it happens. I know that your heart is in the right place—like the engineer on the speeding train and the captain of the great ocean liner, you will feel the great responsibility in caring for the men in your charge.

And in conclusion, I will say that I am not blind to the shortcomings of these workmen—in the daily panorama of shop life the utter indifference to safety of most of them is amazing. But still, deep in men's hearts lies the desire to do right. To awaken that spirit and steer it in the channels of safety is your almost sacred duty.

### Dallas Paper Co. Buys Building

DALLAS, TEX., October 25, 1919.—The purchase from John W. Philip of the three-story building at 405 Lacy street by E. C. Palmer & Co., Ltd., lessees, for the last two years, was announced yesterday by C. E. Sprott, manager of the local branch. E. C. Palmer & Co. conduct a wholesale paper business, with headquarters in New Orleans. Two years ago the Dallas branch was established to serve the South-western trade. Mr. Sprott said that the purchase of the building insures the permanence of the branch house here.

# JOBBER'S

**Our New Prices Surely Will Interest You**

**Krafts  
Manilas  
Tissues**

**Napkins  
Toilet Paper  
Towels.**

**News  
Fibre  
Pattern**

GET IN TOUCH WITH US AT ONCE

**NATIONAL PAPER SUPPLY COMPANY**

**NOW** at Washington Place and Mercer Street, New York

## Mechanical Filters

GRAVITY AND PRESSURE TYPES

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

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WE WILL CALL ON YOU

**NORWOOD ENGINEERING COMPANY**  
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**BOWSHER'S** SPEED OF MOTION  
INDICATOR  
IS INDISPENSABLE

In obtaining a UNIFORM speed of machinery, and is one of  
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# WANT AND FOR SALE ADVERTISEMENTS

## HELP WANTED

**POSITION OPEN** for Screen Room Foreman in Sulphite Mill of 100 tons daily capacity. Must be familiar with operation of knotters, flat screens, thickeners, etc. Address, Box 1692, care Paper Trade Journal. O-30

**POSITION OPEN** for Digester House Foreman in Sulphite Mill of 100 tons daily capacity. Applicants must be capable of looking after cooking and acid making. Address, Box 1693, care Paper Trade Journal. O-30

**POSITION OPEN** for Wood Room Foreman in 100-ton Sulphite Mill. Please send statement of experience and references. Address, Box 1694, care Paper Trade Journal. O-30

**WANTED**—One Head Beaterman. Two-tour mill. Water Finish Fibre. Must know colors. Address, Box 1695, care Paper Trade Journal. N-13

**WANTED**—Two Backtenders. Two-tour mill. Machines running on Water Finish Fibres. Address, Box 1696, care Paper Trade Journal. N-13

**WAX PAPER AND GLACINE SALESMAN** who knows and is acquainted with the consuming trade, is offered a solid opportunity by a concern specializing along these lines. Your letter held in the strictest personal confidence, and will be returned to you. Address, Box 1698, care Paper Trade Journal. O-30

**WANTED**—Capable man to run pasting machine. State experience and salary expected. Address, Box 1706, care Paper Trade Journal. N-6

**WANTED**—Beaterman on blotting and cover specialties; salary 65 cents an hour; eight hours. State age, experience and references. Address, Color Specialties, Box 1707, care Paper Trade Journal. N-6

**WANTED**—First-class machine tender on light weight papers. Experienced with Edwards' Attachment preferred. Permanent position and good home for right man. Address, Box 1676, care Paper Trade Journal. O-30

**WANTED**—A first-class machine tender in a paper board mill. Please state full particulars, wages expected, etc. Address, Box 1677, care Paper Trade Journal. O-30

**WANTED**—A tour boss who can secure results in a paper board mill. Send references, giving full particulars as to experience, etc. Address, Box 1678, care Paper Trade Journal. O-30

**WANTED**—An experienced back tender for a paper board mill. Please furnish full information as to experience, wages, etc. Address, Box 1679, care Paper Trade Journal. O-30

**WANTED**—Night boss for mill making high grade book paper. Two tours. Good position for right man. Address, Box 1680, care Paper Trade Journal. O-23

**WANTED**—Young Chemical Engineer by large Pulp and Paper Co. Salary, \$125 to start. Address, Box 1681, care Paper Trade Journal. O-30

**WANTED**—Machine tender on light weight straw board. Wages, \$4.25 per day of eight hours. None but steady men need apply. The Coshocton Straw Paper Co., Coshocton, Ohio. O-30

**WANTED**—Machine tender for 64" Fourdrinier making Kraft. 62½ cents per hour. Wire applications. Yellow Pine Paper Mill Co., Orange, Texas. N-13

**WANTED**—Good, sober, steady man to run and take charge of a three-ply fibre container machine. Address, Clifton Paper Mill, Passaic, New Jersey. O-30

**WANTED**—Assistant Superintendent. Must have filled that position in mill making good grade of book paper. Good location. Give experience, references, etc. Address, Box 1689, care Paper Trade Journal.

## HELP WANTED

**WANTED**—Superintendent for mill making good grade of book paper. Must be thoroughly familiar with Super Calendering. Good opening for the right man. State age, experience and salary desired. Give references. Address, Box 1690, care Paper Trade Journal.

**WANTED**—Three Sulphite Cooks (experienced) for Candian Mill. Apply, Box 1641, care Paper Trade Journal. O-30

**WANTED**—Two Back Tenders, fast running Fourdrinier machines making Kraft wire. Application strictly confidential. Yellow Pine Paper Company, Orange, Texas. N-6

**WANTED**—A first-class millwright to take charge of repair work in a Sulphite Mill. One who is steady, reliable and industrious. Must be able to handle help and get results. Good wages to the right man. Northern Michigan Pulp Co., Petoskey, Michigan. N-6

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

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

**SUPERINTENDENT**—With twenty years' experience on News and Hanging, open for position. Capable and efficient. Best of references. Prefer Mill with ground wood attached. Address, Box 1564, care Paper Trade Journal. N-27

## SITUATIONS WANTED

**WANTED**—Position as Superintendent. Twenty years' experience. Understand all Acid Systems and latest methods of cooking, and have thorough knowledge of bleaching. I know my business and am qualified to build, equip or reorganize any existing plant. A personal interview will enable me to submit further details. Best of references. Married. Address, Box 1697, care Paper Trade Journal. N-13

**A MAN** of wide experience in developing lines of papereries and school stationery would like to become interested financially and actively with a paper manufacturer. Address, Box 1699, care Paper Trade Journal. N-6

**POSITION WANTED** as Superintendent of mill making binders, leather or other boards; middle-aged man; good at erection and repairs. Address, Box 1700, care Paper Trade Journal. O-30

**SUPERINTENDENT** wants position in mill making chip boards or wrappers. Experienced at construction and remodeling. Middle aged. Eastern States preferred. Address, Box 1701, care Paper Trade Journal. O-30

**CYLINDER MACHINE TENDER**, having seventeen years' experience on board, bag, felt, test and wrapping, wishes position. Can furnish first-class reference. Address, Box 1702, care Paper Trade Journal. O-30

**MECHANICAL ENGINEER**, 30, expert in paper machinery construction and with large experience in the manufacture of Asbestos products, paper and mill board, desires to change his present responsible position with a construction concern and connect for position of manager or superintendent in the above indicated branches. Address, Box 1683, care Paper Trade Journal. N-6

**POSITION WANTED** as Superintendent. Day or night. Well up on all grades of stock and papers, bonds, ledgers, writings, envelope, parchment, French folio, manifold, music, drawing and Kraft. Water and dry wrappings, hanging, news, covers, onion skins, waxing, boards, book and map. Good on colors. Expert on Sulphite Bond. Address, Box 1648, care Paper Trade Journal. O-30

## SITUATIONS WANTED

**WANTED**—A position as Manager. Is your coating plant yielding the results that you have a right to expect from it? Are you producing costs down to their absolute minimum with a maximum of production? If not, why not cut down, save waste and eliminate unnecessary labor? My twenty-four years' experience in the manufacturing of all grades of coated paper, coupled with a sound business training, have equipped me to put my finger on the weak spots, stop the leaks and build up your coating plant to this maximum efficiency. I know my business thoroughly and am qualified to build, equip and develop any new coating plant or reorganize any existing plant and put it on a paying basis. As manager of your Coating Department, I will be a distinct asset to your organization. I am at present employed, but have the best of reasons for desiring to make a change. A personal interview will enable me to submit further details. Address, Box 1625, care Paper Trade Journal.

**A YOUNG, AGGRESSIVE** and responsible sales agency, located in the heart of northern New York's paper industry, would like to act as local representatives for manufacturers of pulp and paper makers supplies and raw products. Address, Box 1684, care Paper Trade Journal. O-30

**FIRST-CLASS MILLWRIGHT** wishes position. Experienced on all work on cylinder and Fourdrinier Machines. Good references as to mechanical ability furnished. Address, Box 1685, care Paper Trade Journal. O-30

**PAPER BAG MANUFACTURERS**—Superintendent and mechanical engineer is open for engagement. Grocery, self-opening bags, sacks, envelopes, specialties and printing. Taking charge or building of new plants. Designing of machines and labor-saving devices. Age 40, married, up-to-date, energetic, resourceful and good organizer. Address, Box 1686, care Paper Trade Journal. O-30

**SUPERINTENDENT** desires to make a change. Up-to-date on Cylinder, Fourdrinier and Yankee paper machines. Experience on dry and water finish. Kraft and Tissues for waxing. Address, Box 1688, care Paper Trade Journal. N-13

**WANTED**—Position as Boss Beaterman, having considerable experience on Book, Envelope and all Sulphite Bonds and Ledgers. Also Kraft and Bag papers. Good Colorman. References as to capabilities and character. Address, Box 1649, care Paper Trade Journal. O-30

**WANTED**—To represent a manufacturer or mill agent, having a complete line of grocery bags. Territory, Savannah, Ga., Charleston, S. C. Address, Box 1651, care Paper Trade Journal. O-30

**SUPERINTENDENT** with thirty years' experience on news, hanging, Kraft and Bag papers; also ground wood and sulphite, open for engagement. Can produce results and handle help. Willing to go anywhere. Address, Box 1663, care Paper Trade Journal. O-30

**SUPERINTENDENT**—51 years of age; 18 years' experience as Superintendent making Wrappings, Kraft, News, Chips and Test Boards. Will go anywhere. Married. Address, Box 1457, care Paper Trade Journal. N-6

## FOR SALE

**FOR SALE**—Binders and Leather Book Mill with water power site, in New England. Forty acres of land and buildings for employees. Mill running at present. Address, Box 1705, care Paper Trade Journal. O-30

**FOR SALE**—Super Calender, five-roll stack, 45" face. Two Daniel's Rag Cutters, No. 2. Address Mars Paper Corp., Westfield, Mass. O-23

**FOR SALE**—Two sulphite beaters 12 x 40 feet, and one Vesuvius 1800-pound sulphur burner, all new. Address, Peshtigo Pulp and Paper Co., Green Bay, Wisconsin. N-6

**FOR SALE**

**PATENT FOR SALE**—Mechanical device for placing woods between iron bars of beater rolls. Big labor saver, and reducer of repair expense. No labor with sledge hammers, no woods split, woods will not come out during grinding life of bars. For further particulars, address C. F. S., Box 1669, care Paper Trade Journal. O-30

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

**FOR SALE**

Two (2) No. 1 Claflin Engines—located Green Bay, Wisconsin.

One (1) No. 1 Claflin Engine—located New Hope, Pennsylvania.

All in first-class condition.

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6 White Oscillating Screens, with new oscillating device.

8 Plates 10 x 24", cut .0014.

4 Plates 10 x 24", cut .0018.

1 New York Safety Steam Engine, Upright, 125 H. P. Cylinder 16 3/4" Bore, 18" Stroke. Flywheel 98" Diam., 18" Face.

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1 Fan (Blower) made by B. F. Sturtevant Co. of Boston, Mass., Diam., 72" x 40" wide; 37/16" Bearings 12" long; casing outside dimensions, 48" 8" x 7" 2".

All in good condition. Prices low.

Address—

Parsons Paper Company,  
Holyoke, Mass.

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**BOARD MACHINE**—Six cylinder 36" x 80", 5 baby presses, three presses, 61 dryers, two stacks calenders, duplex cutter and Marshall drive.

**PAPER MACHINE**—1 72" Fourdrinier, two presses, 15 dryers, 36" x 69", Marshall drive.

**BOARD MACHINE**—Five cylinders, 30" x 72", three presses, 23 dryers, 36" x 66", calenders, cutter and Marshall drive.

**PULP DRYING MACHINE**—Two molds, 30" x 77", three presses, 37 dryers, 48" x 68", Marshall drive.

**MACHINE CALENDERS**—1 84" nine roll, 1 82" nine roll, 1 72" nine roll, 1 68" five roll, 1 48" five roll, 1 37" five roll.

**SUPER CALENDERS**—1 62" Norwood, 1 60" Norwood cotton rolls, 1 53" Holyoke, 1 45" Norwood, 1 43" Holyoke.

**SLITTERS AND WINDERS**—1 127" Kidder, 1 108" Kidder, 1 102" Langston, 1 60" Kidder, 1 38" Kidder.

**PAPER SHEET CUTTERS**—1 112" Finlay, 1 108" Horne, 1 104" B & C, 1 84" Beloit duplex, 1 62" Horne, 1 53" Finlay, 1 48" Finlay, 1 42" Finlay.

**REAM CUTTERS**—1 50" Dayton Serbold, 1 48" Acme, 1 46" Sheridan, 1 36" Sheridan.

**BEATERS**—2 52" x 52" Hornes, 1 53" x 52" Emerson, 1 48" x 48" Horne, 1 48" x 48" Downingtown, 1 48" x 66" Umperston, 1 No. 1 Claflin.

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

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

**SCREENS**—2 ten plate packers.  
**WET MACHINE**—2 64" Sandy Hill Iron & Brass, 1 72" Bagley & Sewall hydraulic.  
**BOARD CALENDER**—1 Horne two rolls, 48" x 48".

**FRANK H. DAVIS**

175 Richdale Ave., Cambridge, Mass.

**MISCELLANEOUS**

**WANTED**—To buy or rent use of experimental paper machine and beater. If you have anything like this, would appreciate your early communication. Address, Box 1703, care Paper Trade Journal. N-6

**NEW GRADES**—We have satisfactorily represented two mills in Boston for four years and have the best of facilities, storage, location and personnel, augmented by late returns from France, to handle the account of another mill. If you have a grade you want thoroughly introduced in Boston, write us. Our service is less expensive and more productive of results than having a traveling man visit this territory. Write N E M A, care Paper Trade Journal.

**A WELL EQUIPPED** and up-to-date Leather and Binders Board Mill, located in New England, for sale. Excellent water power site with modern buildings and land. Mill running. Address, Box 1704, care Paper Trade Journal. O-30

**WAXED PAPER**—The only proper paper to wrap up food or sweetmeats in, or articles of polished metal, etc., totally without smell or tasteproof against water or grease—no chloride, acid or rust—can be supplied in any quantity or thickness, in rolls or sheets, or in rolls specially adapted to mechanical wrappers. Emil Schwander and Company, Chemnitz-Furth, Saxony, Manufactory of water-proof paper and materials. Founded 1869. N-13

**WANTED**—To buy a second-hand Norwood plater. Must be wide jaw for linen cloth finish plating. Address, with particulars and price, Box 1655, care Paper Trade Journal. O-23

**WANTED**—Second-hand paper trimming machine. Must be in first-class condition. Anything over 36" satisfactory. Address, with particulars, Box 1654, care Paper Trade Journal. O-23

**WANTED**—To rent, with option of buying, one complete paper mill with Cylinder machine for making sheathing, wraps, chip-board and saturating felt. State full details. Address, Box 1656, care Paper Trade Journal. O-23

**WANTED**—Wet machine for binders board, 72" or larger. Must be in good condition. Give particulars, best price, etc. Box 1657, care Paper Trade Journal. O-30

**WANTED**—Any information as to the whereabouts of John Spellman, machine tender, will be greatly appreciated. Last heard of in Ontario, Canada.

**CYLINDER MOLDS**, tanks and head boxes, plain dandy rolls, Brass wire cloth. Fine seams for tissue paper a specialty. We put 'em on tight. Address Clark Mfg. Co., 79 Merrick avenue, Holyoke, Mass.

**WANTED AT ONCE**

Engineers experienced in Paper Mill Construction. Men capable of laying out board mill complete. Practical experience necessary. Give full details as to past experience and salary expected.

Address,

**EMPLOYMENT DEPARTMENT,**  
**THE BEAVER BOARD COMPANIES,**  
**BUFFALO, N. Y. O-23**

**Architects and Engineers**

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

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

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

**MISCELLANEOUS**

**WANTED**

Salesman for the State of Pennsylvania; one familiar with paper bags and toilet papers. We also have openings for New York and New England territory.

Address, ,

**WORTENDYKE MFG. COMPANY,**  
**RICHMOND, VA. O-30**

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IN THE

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

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

**COATERS**—Two 56" Waldron coaters.  
**CUTTERS**—Two 45" Finlay cutters newly rebuilt with brand new Hamblet expansion pulley drive, 36" Sanborn cutter, 38" guillotine cutter.

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

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

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

**EVERERS**—Two Mellor everers.  
**JORDANS**—1 Mammoth Jr., several Emerson and Horne type Jordans.

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

**PULLEYS**—One 97" dia. 34" face, double arm, modern pulley. One set cone pulleys, 40" x 31" x 83" face. One set cone pulleys, 40" x 31" x 78" face. Also large stock of iron pulleys, including some cone pulleys for Marshall drives. New wood pulleys with friction clutches.

**PUMPS**—One dry suction pump, single vacuum, 12 x 22 x 18 Knowles, one 1,000 gallon Blake tank pump, several 7" and 8" Lawrence Machine Company, Class A, high duty pumps; fan pumps, new stock pumps, single and double.

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

**ROTARIES**—One 14" Globe, one 84" x 22" horizontal in good condition, ready for immediate shipment.

**REELS**—Two Bagley & Sewall, one two bowl upright, one ten bowl revolving, bowls 48" face. Also several new reels now under construction. State the width you require.

**RAG CUTTERS**—One Daniels No. 2, 12 3/4" knife; one Rice, Barton & Fales with 12" knife, newly overhauled and ready for quick shipment.

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

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

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**LAWRENCE, MASS.**

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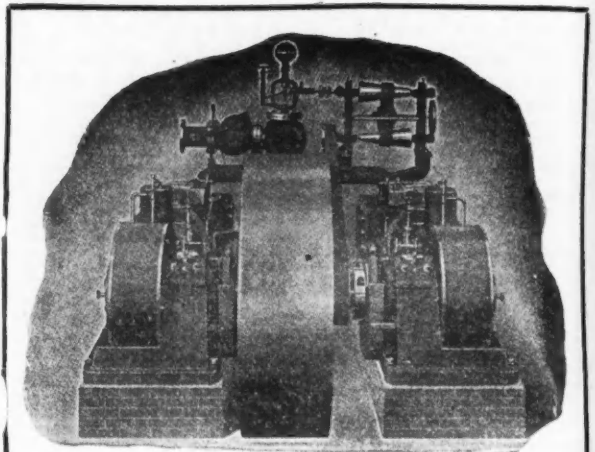
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increases production and decreases the worry. The real live paper manufacturers are using them, and they'll tell you that it pays.

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

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

MISCELLANEOUS

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located in western part of New York State, wants salesman to travel; man who knows the toilet paper trade only. Good proposition to right party. Give full particulars in first letter. Correspondence strictly confidential. Address, Box 1638, care Paper Trade Journal. O-23

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

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1920

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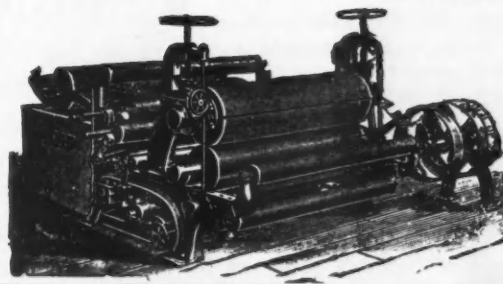
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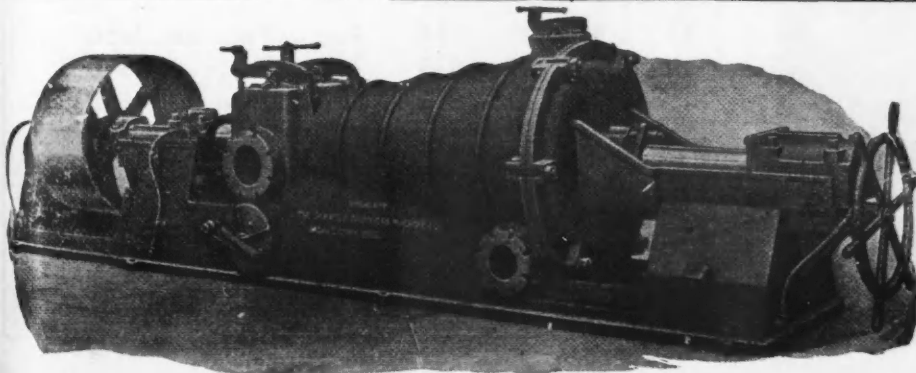
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# Bleached Sulphite Pulp

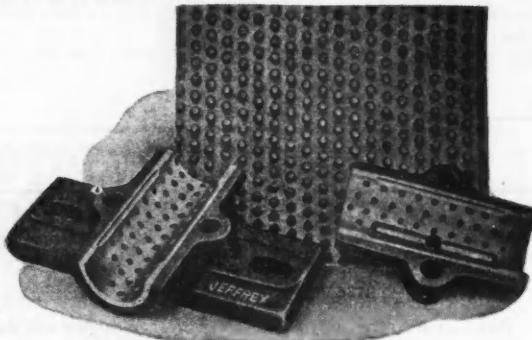
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Sell 140 tons per day of Bleached Sulphite  
 fibre made from choicest Quebec spruce wood,  
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*Your patronage will be welcome.*

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**E**NABLES you to utilize all the advantages, and economies of graphite and is incorporated in babbitt bearings as they are poured, without changing the construction in any way—preventing hot bearings—eliminating shutdowns, loss of production, cost of frequent rebabbiting, running bearings three to four times longer than plain babbitt.

This lubricator is being used in the bearings of Jordans, Calenders, Dryers, Beaters, Rag Cutters, Pumps and Transmission.

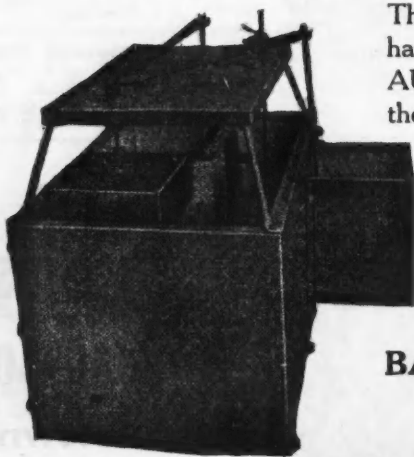
*Write for list of users and bulletin.*

*Manufacturers of Paper Mill Machinery will find Randall an ideal device to incorporate in the bearings as standard equipment.*

**RANDALL GRAPHITE SALES CO.**

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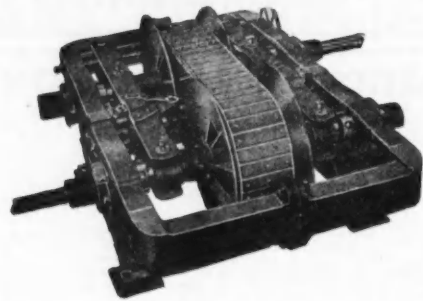
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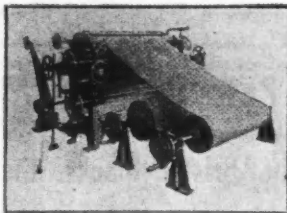
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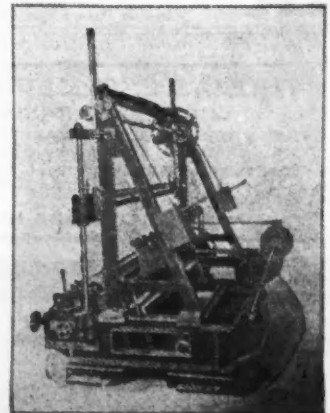
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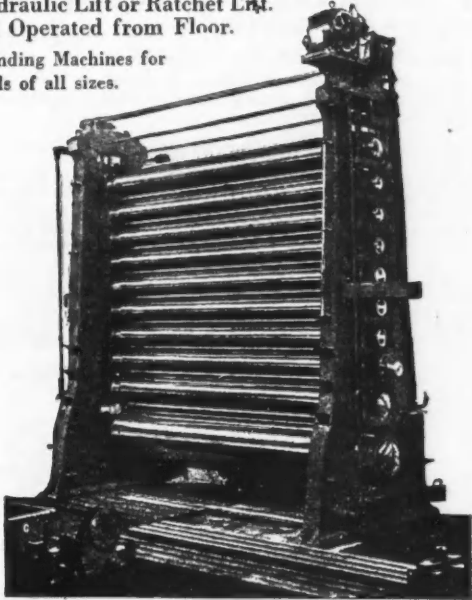




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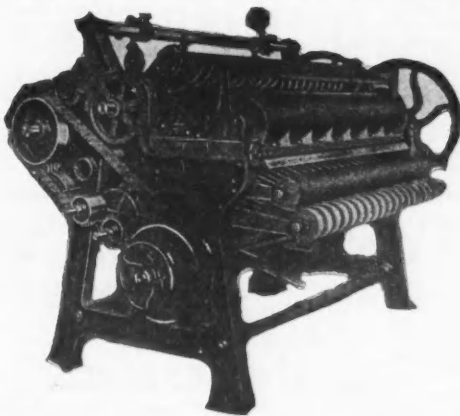
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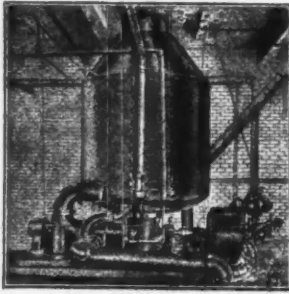
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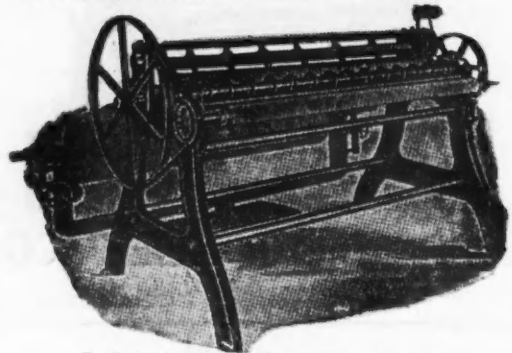
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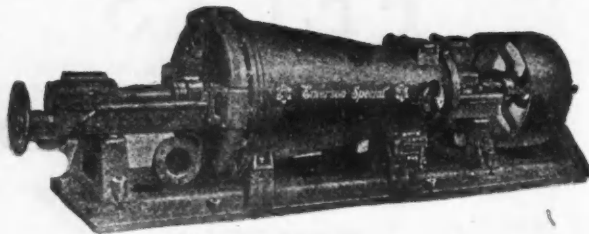
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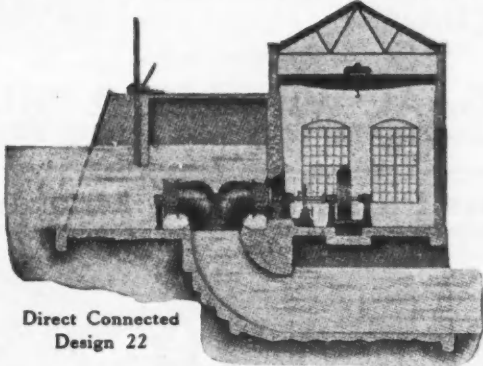
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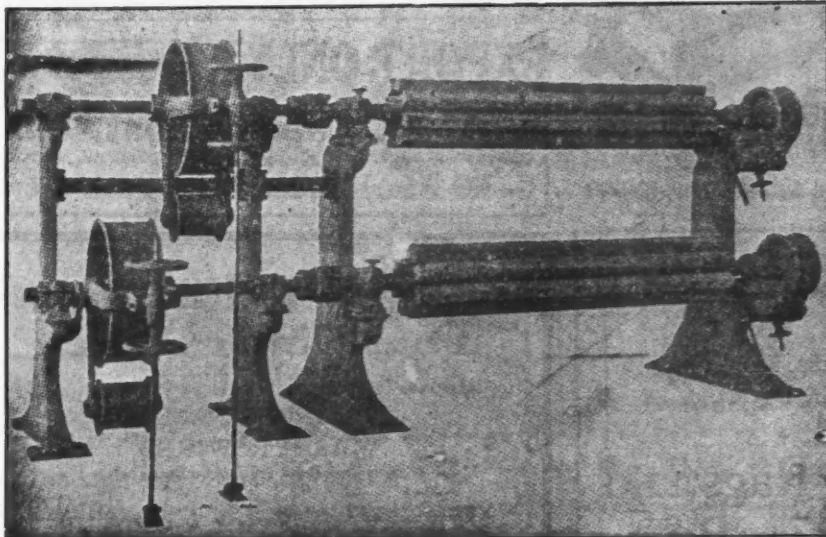
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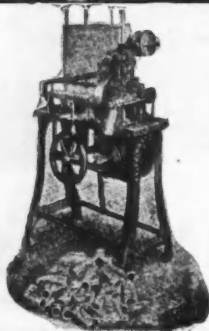
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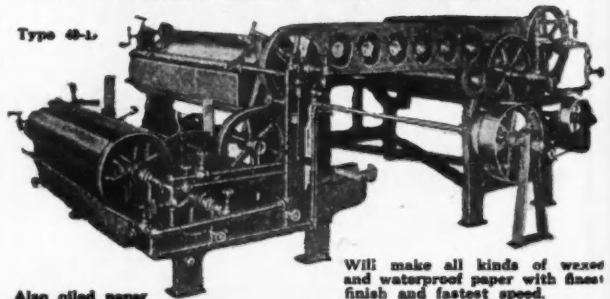
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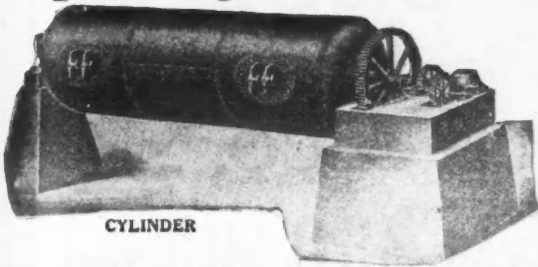
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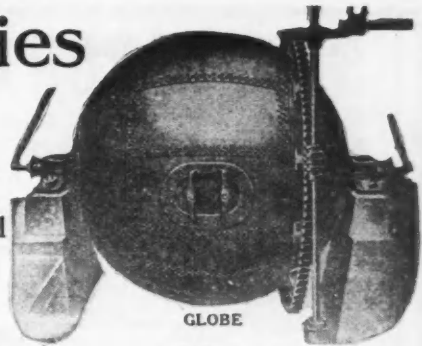
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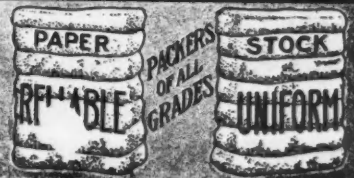
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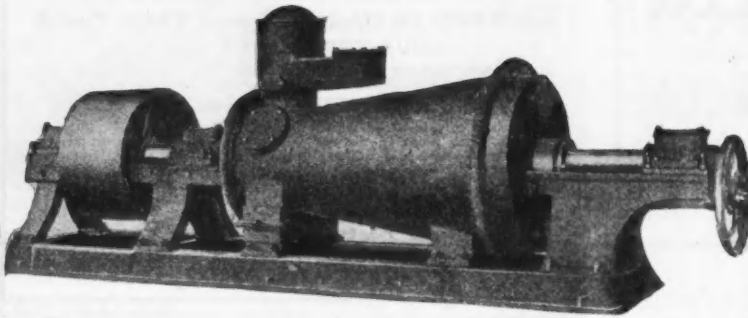
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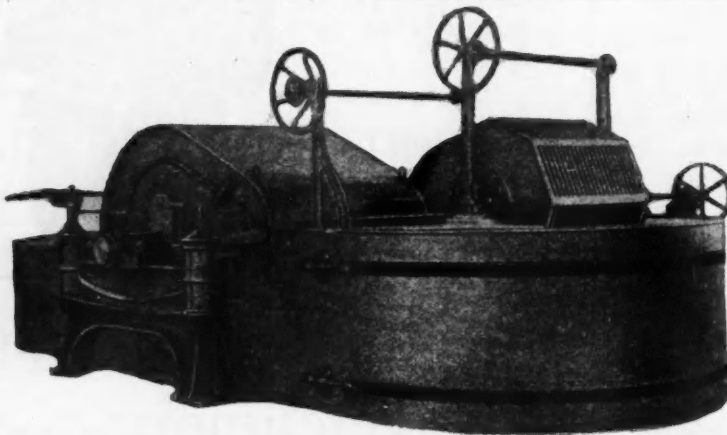
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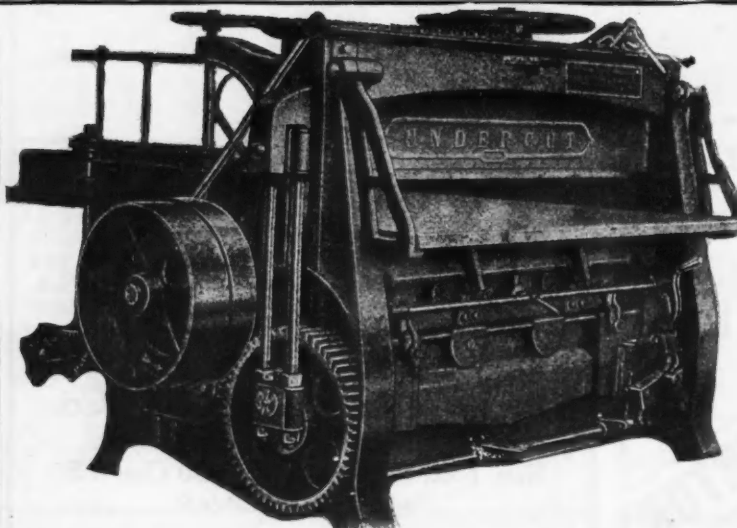
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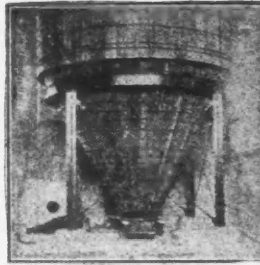
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