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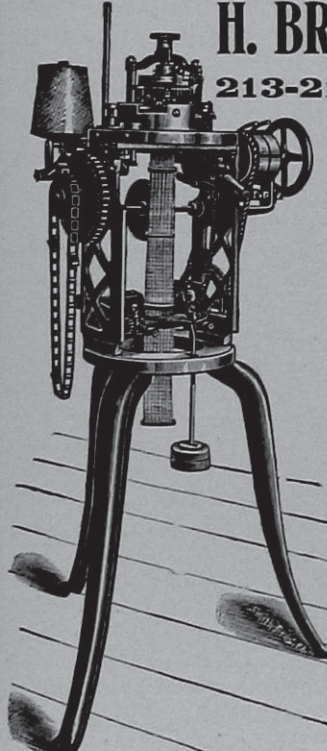
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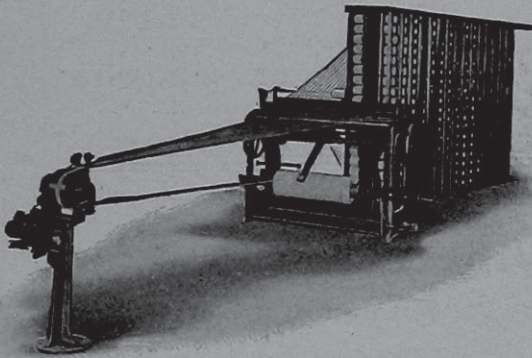
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Textile Publishing Co.

Philadelphia, Pa.

FINISHING OF CARRIAGE CLOTH.

(Continued from page 175)

hot, which robs it of lustre. After fulling the fabric to the required width, the same is now ready for washing off, and should be entered in the ordinary rope washer and run for about fifteen minutes in warm water. Following this, the liquor should be run off, and a couple of buckets of good scouring soap added, together with more warm water. After a good creamy lather has developed, the cloth should be run in this for fifteen minutes, then washed off well with plenty of clean warm water, finally finishing off with a good thirty minutes' swill with cold water.

If carbonising is required, this should be the next process, the acid usually having a strength of 8 deg. Be., and the fabric run for say 20 minutes and then squeezed between rubber covered rollers, after which the cloth is thoroughly hydro-extracted by either a centrifugal or a suction machine, when it is ready for the drying room. This is heated up to from 180 to 220 deg. F., until all burs or vegetable matter are carbonised into a crisp condition, when the material is transferred to a specially fitted fulling mill and subjected to a dry beating, the mill being heated during the process and the operation continued until all traces of vegetable matter have been beaten out.

The cloth now requires well washing and neutralising to get rid of the acid, and a mixture of alkali and ammonia with the water gives the best results. Should the alkali be not properly eliminated at this

stage the dyeing may possibly be rendered uneven, and it is always advisable to finish the washing off after carbonising with ammonia and water only. Following this washing should come a gentle hydro-extracting, leaving the cloth fairly damp so that the next process, gigning, takes proper effect.

The teazels of the gig give a better finish than the wire clothing of the napper, particularly on the better grades of cloths. This is due to the minute hook on the teazel's awn which lifts out single fibres, the tendency of the card clothing of the napper being more violent.

From here the cloth goes to the boiling roller, although some finishers substitute the blowing steam decatizer for the older form of boiling in a tank. From the writer's experience, the older method gives the better finish as the handle is less papery and there is also less risk of tendering. If any of the new decatizing machines are used, the fabric should be run on to the roller, with plenty of water, giving a good brush with the revolving roller so as to lay the nap perfectly straight, then following this up with a 30 minutes' steam and a cool down on the roll, preferably all night. They may be cooled in position by sucking cold air through, but this does not give as fine a face as allowing them to cool slowly, moreover the air current disturbs the face to some extent.

Of the accompanying illustrations, Fig. 1 shows us a front view and Fig. 2 an end section of one form of a decatizer with the fabric running over the brushing

roller *A*, which, of course, revolves in a contrary direction to that of the traveling cloth.

STRAIGHTENING AND WASHING OFF.

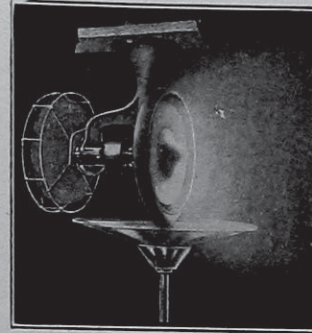
Clean water for this purpose is indispensable, using plenty of it while the piece is on the gig, and giving the final round previous to taking off quite dry. When this is done, it reduces the danger of a watery face arising, a very common fault with this class of goods, which, although curable, means working up the face again with an unavoidable loss of weight by reason of the flocks taken off by the teazles. This single dry round on the gig after washing off, levels the water on the face, besides clearing away scum, etc., which is often in the water or develops by working, besides which, it obviates re-raising after once being cut, and so does away with the objectionable fault of the face appearing lighter in color than the back.

With light shades, a few rounds in clean water in the washing machine following boiling will be found beneficial, always providing the goods are not run long enough to form dolly marks or rope creases. This extra swill will improve the lustre and lessen the chances of stains appearing. A fault frequently arising with goods of light shade, is that known as a broad face, where the nap has a peculiar wavy, dappled appearance. This fault is generally caused by the cloth not having been crossed, and can be cured if taken in hand previous to curf or roller pressing and boiling, but should the fault not be seen before these last two operations, the defect is then hopelessly fastened. In connection with roller pressing the fabric is brushed

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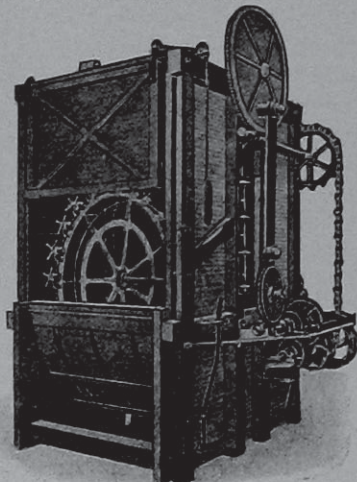
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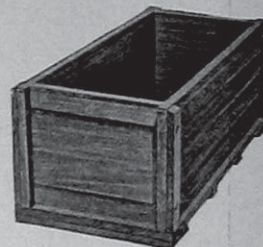
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on both sides during entry, is also cooled in taking off by a fan and tube connected with the outside air.

In dealing with fancy shades of red, clarets and ruby, the last dry side on the gig must be given with clean teazles, that is, they must not contain flocks from darker pieces, or long dirty streaks will form which are almost impossible to eradicate. The water supply must also be quite clean and free from scum during the washing off, although the last dry round is supposed to counteract any marks from scum.

The better qualities of carriage cloths are woven with a white list about an inch and a half in width at each side, since this is added to set off the brightness of the dye it is imperative that it should be preserved in its unsullied state, a cloudy and dirty list giving a very poor appearance to the cloth. Probably the chief cause for clouded lists is the use of dirty water or the bleeding of the dye, and accentuated by allowing the rolled cloth to drain in a vertical position, this naturally causes the impurities to settle down into the lower list, leaving the upper one clear. Soap residues which may have been left in the fabric are a great source of flecked pieces and clouded lists, and any application of heat, such as in pressing and boiling, tends to fasten this; under these conditions the lustre suffers, the handle becomes hard and cakey, besides rendering the face and lists uneven.

During the last few rounds on the gig is the time to notice if the cloth is free from soap; as the teazles get into the bottom of the cloth they will bring the soap to the surface, imparting a slippery feel and generally a pronounced soapy smell. Now is the best time

to cure this, and the pieces should be sent back to the washer for a few more rounds in aired water, as at this stage the soap will be free and the fibre of the cloth open and easy to wash free. After this, the pieces will require a couple of rounds, tail end up, over clean teazles, just sufficient to lay the nap nicely straight before tentering. If a cloth is tentered which contains soap, this will not be apparent when the fabric is dry and the piece will probably be passed on for the initial cutting, when, however, curf pressing followed by boiling comes on, the soap is once more in evidence
(Continued on page xvi.)

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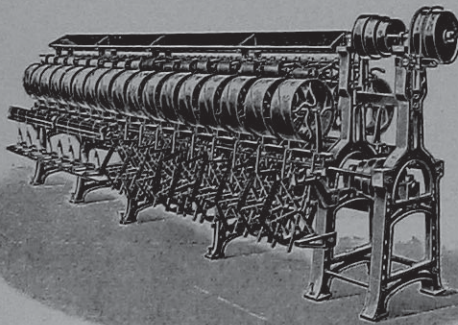
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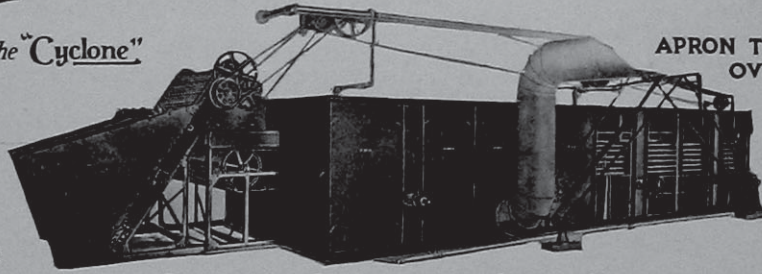
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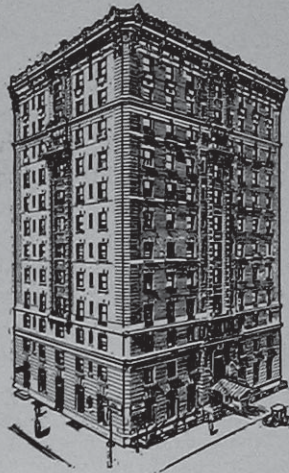
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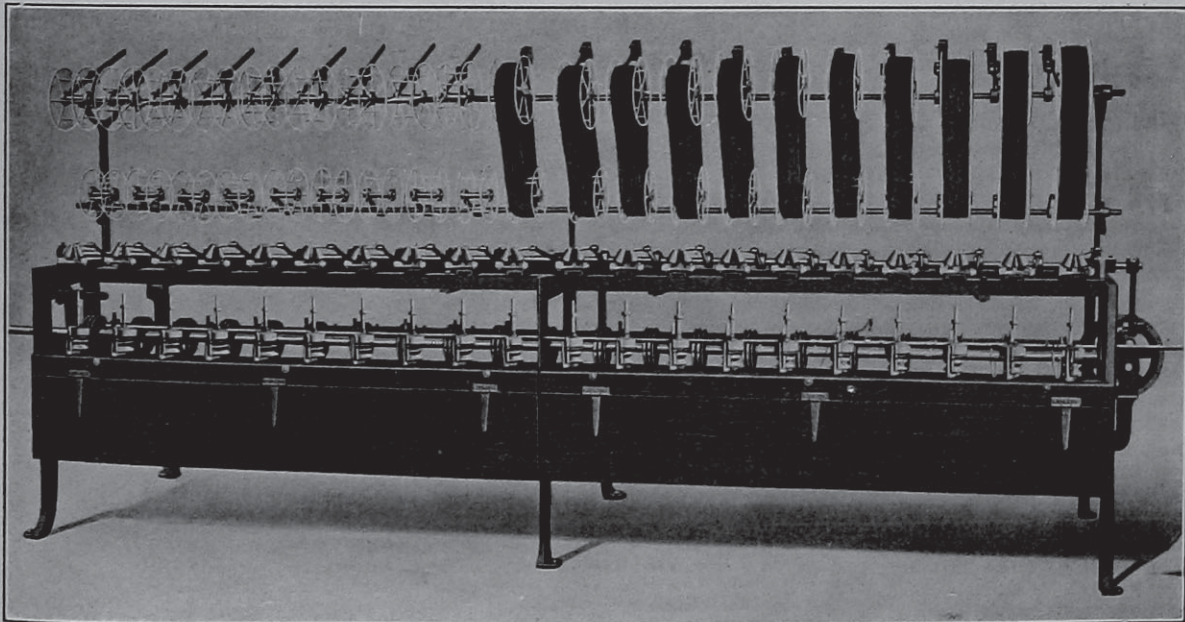
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OSWALD LEVER CO., Inc., BUILDERS OF TEXTILE MACHINERY
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**This is the Most Suitable Machine for Winding Fine Cotton, Worsted, Dupion and Silk
 On Paper Tubes or Quills Equally Successfully**

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CIBA RED CIBA HELIOTROPE

Vat Dyes for Cotton Dyeing and Printing—also for Wool and Silk.

CIBANON YELLOW, BROWN, ORANGE

Vat Dyes for Cotton Dyeing—Fast to Light, Chlorine and Washing.

Made by **SOCIETY of CHEMICAL INDUSTRY, BASLE**

A. Klipstein & Co., : New York, : American Agents

FINISHING OF CARRIAGE CLOTH.

(Continued from page xiii.)

and will now be most difficult to move. Nothing short of re-scouring will move it, followed by all the previous finishing stages, which cannot help but seriously impoverish the cloth without the certainty of again obtaining the same finish.

Biscuit and other delicate shades are difficult to finish on account of the high susceptibility of the cloth to show streaky with the least impurity, and after gigging it is advisable to send all such shades back to the scourer for a mild wash with a little alkali followed by clean aired water. In all processes connected with the finishing of faced cloth, cleanliness is one of the most important factors, and whatever the process be, the rule should be kept that light-colored cloths do not follow dark ones without the machine is thoroughly cleaned from flocks, etc. A very old safeguard is to run a white piece which is intended for a dark shade through the machine before entering one of light color, and this will be found very effective, and will compensate for the little extra trouble. The decatizing machine shown in Figs. 1 and 2, in its front view and end section respectively is a good type to use for faced cloths, as the cloth may be either crabbed or blown, with or without the brush being used. *B* and *C* are guide rollers to be used when re-winding from the crab roller, *D* and *E* is a weighting roller which can be lifted out when not required. "Dyer and Calico Printer."

DRYING DYED COPS.

The method of drying has an enormous influence on the uniformity of the color. It must be done rapidly, and at a comparatively low temperature in a strong current of warm air. The last rinse must always have been done with soft water, for the presence of lime in the cops not only makes them dry more slowly, but tends to make the color unlevel.

One of the oldest Manufacturers of Reeds and Harnesses in this country are THE J. A. GOWDEY REED AND HARNESS MFG. CO., Providence, R. I. They have been manufacturing this line for the past 76 years and of late their business, through the able management of Mr. James Wilson, the President and Treasurer, has grown to such an extent that a new plant has been erected at 1226 N. Main Street, that city.

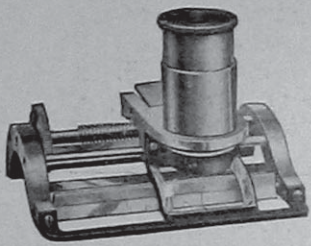
This company was the first to make wire reeds of tempered steel, and since April 1904 have manufactured, by machinery, tempered steel reeds for weaving wire cloth and wire netting.

The new plant has greatly increased their facilities for making all kinds of loom reeds, special attention being given to the manufacture of soldered reeds for silk weaving, their workmen, in this line as well as all branches of their business being experts, many of whom have been with the firm from ten to forty-five years. Under these conditions, it is evident that prompt deliveries and complete satisfaction are guaranteed to all their patrons.

ATTACHMENT FOR MECHANICALLY DOFFING BOBBINS.

Doffing attachments to spinning frames have for a long time engaged the attention of those interested in textile machinery, and it will thus be found of interest to spinners to know that N. R. Newsholme, of Keighley, Yorkshire, England, has recently taken out British patents and is now applying for a United States patent covering certain improvements in doffing mechanism for spinning frames.

This mechanism is fully automatic. The doffing motions (driven by belt) take the full bobbins off the spindles and replace with empty ones, and leave the frame ready for spinning immediately on completion of the doffing operation. The only work the spinner has to do is to pull the lever which sets these various doffing motions into operation. As this motion is driven positively, the time taken for doffing can be permanently set, thirty seconds being more than sufficient.



Lowinson's Triplex Thread Counting Micrometer

The great American invention for counting threads in textiles. Adopted by the Board of U. S. General Appraisers, also by Appraisers of the Ports of New York, Chicago, New Orleans and Providence; also by Quartermasters Dept., Phila., for the examination of goods purchased by the Government.

No thread counting glass in the world combines the magnifying powers and other distinctive features of this instrument.

CHAS. LOWINSON, 395 B'way, NEW YORK CITY

Sole Agent for U. S. and Canada

BOOKS ON TEXTILE SUBJECTS.

- Wool Dyeing (Part 1)**, by W. M. Gardner. Price \$2.00.
TABLE OF CONTENTS: Fibre, Scouring, Bleaching, Water, Mordants, Assistants and other Chemicals.
- Wool Dyeing (Part 2)**, by Gardner and Knaggs. \$3.00.
TABLE OF CONTENTS: Classification of Coloring Matters; Natural Dyestuffs: Logwood, Redwoods, Madder, Cochineal, Kermes and Lac-dye, Orchil; Cudbear and Allied Coloring Matters, Yellow-Dyes, Indigo; Artificial Dyestuffs: Classification of Coal-tar Dyes, Artificial Mordant Dyes, Acid Mordant Dyes, Acid Dyes, Direct Cotton Dyes Suitable for Wool, Basic Dyes, Dyes Applied by Oxidation, Reduction and other Special Processes, Metallic Dyes, Methods of Dyeing Wool in Various Forms, Suitability of Dyes for Different Classes of Work, The Theory of Wool Dyeing.
- The Dyeing of Cotton Fabrics**, by F. Beech. Price \$3.00.
TABLE OF CONTENTS: Fibre; Action of Alkalies, Acids and Oxidising Agents; Bleaching; Dyeing Machinery and Manipulations; Principles and Practice of Cotton Dyeing; Dyeing Unions, Cotton-Wool, Cotton-Silk; Washing, Soaping, Drying; Testing Color; Experimental Dyeing and Comparative Dye Testing.
- Silk Dyeing Printing and Finishing**, by G. H. Hurst. Price \$2.00.
TABLE OF CONTENTS: Fibres; Bolling Off; Bleaching; Dyeing Blacks and Fancy Colors; Weighting; Dyeing Mixed Fabrics; Printing; Dyeing and Finishing Machinery and Processes.
- Dyeing of Textile Fabrics**, by Hummel and Hasluck. Price \$2.00.
Three Volumes Bound in One.
Vol. 1: Textile Fabrics and Their Preparation for Dyeing.
Vol. 2: Coloring Matters for Dyeing Textile Fabrics.
Vol. 3: Mordants, Methods and Machines used in Dyeing.
- Wool, Cotton, Silk; Fibre to Finished Fabric**, by Posselt. Price \$7.50.
TABLE OF CONTENTS: Raw Materials; Preparatory Processes: Carding, Drawing, Spinning and Twisting; Winding, Warping; Weaving Machinery and Supplies; Knitting, Processes and Machinery; Dyeing, Bleaching, Mercerizing, Processes and Machinery; Finishing, Processes and Machinery; Heat, Power and Transmission.
- Color in Woven Design**, by R. Beaumont. Price \$7.50.
This work contains on 32 plates 126 colored illustrations of Diagrams Illustrating the Mixing of Colors; Fancy Yarns, Fancy Cassimeres, Worsteds, Trouserines, Coatings, Suitings, Ladies Dress Goods, Cloakings, Fancy Cotton and Silk Fabrics. Besides said 126 colored illustrations, the work contains 203 illustrations, in black and white, of Weaves and Color-Effects in Fabrics, etc., accompanied by 440 pages of reading matter.
- Chemistry of Dye-Stuffs**, by G. von Georgievics. Price \$4.50.
A textbook presenting to the student in as condensed a form as possible the extremely wide domain of the modern chemistry of dye-stuffs; bringing into prominence all the relations known to subsist between the various dyes and groups of dyes, as well as the connection between color and constitution, since the proper appreciation of these relations forms the main object of color chemistry.
- The Jacquard Machine**, by E. A. Posselt. Price \$3.00.
TABLE OF CONTENTS: Different parts of the Jacquard Machine and Its Method of Operation; The Jacquard Harness; The Comberboard; Tying up of Jacquard Harnesses for all kinds of Fabrics, Modifications of the Single Lift Machine; Stamping, Lacing and Repeating of Jacquard Cards; Practical Hints on Jacquard Designing.
- Testing of Yarns and Textile Fabrics**, by J. Herzfeld. Price \$3.50.
A Guide for the Manufacturer and Large Purchaser, who observe definite specifications to insure standard material and workmanship; also giving a collection of tests, both of physical and of chemical nature.
- Woolen Spinning**, by C. Vickerman. Price \$1.75.
TABLE OF CONTENTS: Fibre, Supply, Sorting, Scouring and Drying, Bleaching and Extracting, Dyeing, Burring, Mixing and Oiling, Carding, Spinning, The Mule, Miscellaneous.
- Wool Combing**, by H. Priestman. Price \$1.50.
TABLE OF CONTENTS: Fibre, Washing, Water, Carding, Preparing, Intermediate Processes, Combing, Finishing, Tops and Top Testing.
- Silk Throwing and Waste Silk Spinning**, by H. Rayner. Price \$2.50.
A Treatise on the Principles of Silk Throwing and Waste Silk Spinning, with illustrations and Descriptions of the Machinery used.
- Textile Calculations**, by E. A. Posselt. Price \$2.00.
A Complete Guide to Calculations Relating to the Construction of All Kinds of Yarns, Fabrics, and the Analysis of Cloth.
- Cotton Spinning**, by T. Thornley. 3 Volumes. Price \$6.50.
A Complete Self-Instructor (with Questions and Answers) on this subject, treating machinery and processes as used abroad.

The above books, as well as any other books on Textile Subjects, no matter where published, sent charges prepaid. Remittances should be made by Check or Money Order, or in Registered Letters. Not responsible for money lost, when otherwise sent.

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"BRETON" OILS FOR WOOL

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BOSTON

FALL RIVER

PHILADELPHIA



MILL NEWS

Philadelphia. Alfred E. Reynolds has sold his interest in the Boulevard Knitting Mills to Joseph F. Collins, who will operate the same in conjunction with Gustav A. Reichelt and Richard Meyer.

Philadelphia. The Colonial Knitting Mills Co., 458 North Orianna street, manufacturers of knit neckwear and knitted novelties, have practically doubled their capacity.

Philadelphia. A. J. Cameron & Co., worsted yarn spinners, are planning the erection of a six-story mill to cost about \$100,000, at Glenwood avenue and Pacific street.

Philadelphia. Jenny & Stott have begun the manufacture of braids at 2024 N. 10th Street, having installed eight machines.

Philadelphia. The Western Wool Co., has been incorporated with a capital of \$50,000.

Philadelphia. The Riehm Knitting Mill has been incorporated, capital \$10,000.

Philadelphia. William S. Lloyd, proprietor of the Stratford Mill, is building an addition to the plant, in which he will install additional winding machinery.

Easton, Pa. Ralph R. Pittenger and others have incorporated the Roehlen-Pittenger Silk Co. with a capital of \$10,000 and will engage in the manufacture of broad silk and silk ribbons.

Edwardsville, Pa. At a recent meeting of the Board of Trade it was announced that Jansen & Pretzfeld, who operate silk mills at Paterson and Lebanon, would locate a large silk mill here.

Longswamp, Pa. The Long Valley Rug & Carpet Company's new building is almost finished, and the installation of looms will be pushed, to be ready for fall trade.

Pottstown, Pa. The Arion Knitting Co. has been organized and has leased the factory building at South and Montgomery streets. Walter S. Weber is manager.

Pottstown, Pa. The Vaughan Knitting Co. are installing 200 additional machines to take the place of those recently destroyed by fire.

Shenandoah, Pa. The Mount Carmel Silk Co. have awarded contract for the erection of a \$12,000 mill building, on the plot granted by the Mount Carmel Board of Trade.

Siegfried, Pa. The Central Silk Manufacturing Company will erect a large addition to its plant, also a throwing mill at Northampton.

Tamaqua, Pa. Albert Warner, of this place, and H. L. Loop, of Philadelphia, have started the manufacture of ladies' underwear here under the name of Warner & Loop. Ten machines have been installed and as the business grows additional machines will be added.

Wilkes-Barre, Pa. It is reported that the Wyoming Valley Lace Mills is plan-

ning the erection of a \$500,000 addition to its plant.

Bridgeton, N. J. The Link Hosiery Co. are considering the advisability of increasing their equipment.

Garfield, N. J. The New Jersey Worsted Spinning Co. has increased its capital stock to \$2,000,000.

Little Falls, N. J. The Nassau Carpet Company has been organized by A. Murray, W. H. and F. H. Button. They will occupy the old plant of the Brunswick Carpet Company.

Passaic, N. J. The Ryer Mfg. Co. has been incorporated, capital \$200,000; to manufacture upholstery, etc.

Paterson, N. J. E. B. Hindley, Agent of the Stafford Co., reports that the Henry Doherty Silk Co. are installing 600 of their looms.

Paterson, N. J. The Dordoni Silk Dyeing and Chemical Co., have incorporated with a capital of \$500,000.

Rutherford, N. J. George Schmiedel, of 287 Hancock street, Brooklyn, N. Y., is erecting a new mill here for the manufacture of broad velvet goods, which will be known as the Georgian Velvet Mills. The equipment will consist of 35 looms and operations are expected to commence in the early part of September.

Amsterdam, N. Y. The Van Brocklin & Stover Co. are erecting a new dye house 50 by 60 feet as well as altering the Magneto Buildings to accommodate their machinery which they intend to remove from their Clermont Mill.

MANUFACTURERS
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ANTHRACINE



COAL TAR
PRODUCTS
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ANILINES

Bath, N. Y. The Bath Knitting Co. has decided to install additional machinery.

Capron, N. Y. George A. Frisbie, Frank A. Bosworth, of Utica, and M. Waterbury, of Whitesboro, have incorporated the Sauquoit Spinning Co., capital \$600,000, to manufacture knit goods. They have taken over the bankrupt plant of the Utica Cotton Co.

Jamestown, N. Y. The new weave shed, two stories, 120 by 80 feet, of the Empire Worsted Mills, was opened by a formal entertainment to the employees and friends.

Montgomery, N. Y. William Crabtree & Sons, who are operating a worsted mill here, are contemplating the erection of a new branch at Newburgh, N. Y.

New York. Fred Forschler, 420 West 121st Street, New York, Arthur Elston, Providence, R. I. and others, have incorporated the Ideal Worsted Co.

New York Mills, N. Y. The Walcott & Campbell Spinning Co. has increased its capital from \$100,000 to \$250,000.

Oriskany Falls, N. Y. The Yarn Mill of Hatheway & Reynolds was entirely destroyed by fire May 30, entailing a loss of \$50,000.

Philmont, N. Y. The Columbia Mesh Knitting Co. is reported contemplating the erection of a new plant to take care of its increased business.

Richfield Springs, N. Y. The Wai-ontha mill will add another story to its dyeing plant.

Schuyler, N. Y. Gilbert Butler and others will incorporate the Richmond Knitting Co. with a capital of \$50,000.

Amherst, Mass. E. D. Marsh and M.

A. Dickinson, of this place, have incorporated the Amherst Mfg. Co., capital \$45,000, for the manufacture of cotton, wool, silk, flax, rubber and all fibrous goods.

Cherry Valley, Mass. The Eagle Lake Mill, which has been idle for several months, has again resumed operations.

Cherry Valley, Mass. The Chapel Mills Mfg. Co. have increased their capital by \$100,000.

Fall River, Mass. Henry and Robert C. Ashworth, and Charles M. Clark, of this city, have organized the Ashworth Bros., Inc., with a capital of \$400,000; to make and sell machinery and textile goods.

Holden, Mass. James Dorr, of Worcester, has purchased the plant of the Dawson Manufacturing Co. at auction for \$12,000. Mr. Dorr is quoted in an interview after the sale: "I feel as though I hadn't bought anything but had stolen something. If any one had bid against me they would not have bought this property for less than \$25,000. I have not bought for myself."

Indian Orchard, Mass. The Hodges Fibre Carpet Co., Wm. Stevenson, mgr., is erecting an addition, 200 by 50 feet.

Janesville, Mass. The Wallace Woolen Mills are installing ten new broad looms and about 1,000 spindles.

Lawrence, Mass. The Arlington Mills are erecting a cotton storehouse, 100 feet by 200 feet, six stories high.

Lawrence, Mass. The floor of the new dyehouse, printing and finishing buildings of the Pacific Mills, comprising in the neighborhood of 16 acres of floor

space, will be constructed of reinforced concrete.

Lawrence, Mass. The first step has been taken toward the construction of the United States Worsted Company's new mill, by removing the foundations of the old City Flour Mills on the Merrimac River.

Lawrence, Mass. William Whitman has purchased a large tract of land here, for building the merino mill he originally intended to build in New Bedford.

Leicester, Mass. The Ashworth Bros.' mill is manufacturing cloth for the Valley Woolen Mill.

Middleboro, Mass. The Nemasket Worsted Mills are erecting an addition to their plant, thereby enabling the company to install additional finishing machinery.

Monson, Mass. A. D. Ellis & Co. are planning an addition, to be used as a weave room.

New Bedford, Mass. The representatives of James Nelson, of Nelson, England, who are looking over sites in New England for a fine goods mill, have practically decided upon this city as a location for the mill.

New Bedford, Mass. It is reported that the projected Sharp mill will start with 60,000 spindles, with room enough to add half as many more.

North Adams, Mass. The Strong-Hewat Company are to erect a four-story addition to their large mill and add another story to their present plant.

North Oxford, Mass. The Narragansett Worsted Co. is reported operating the carding and spinning department night and day.

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HOSIERY AND UNDERWEAR MANUFACTURERS

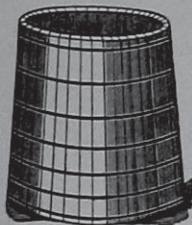
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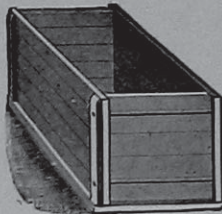
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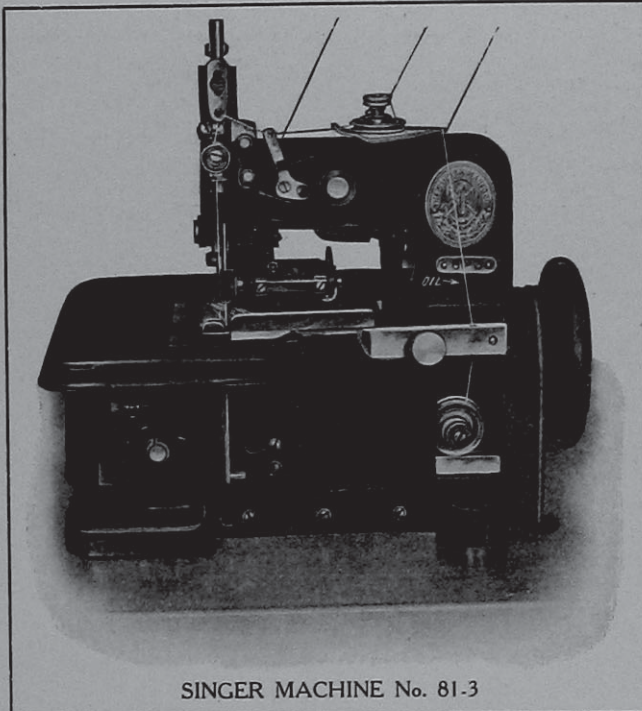
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and all parts for

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NEW YORK

Pittsfield, Mass. Ralph D. Gillett, Westfield, Mass., is the president and James R. Savery the treasurer of the Berkshire Woolen and Worsted Company just incorporated with a capital of \$400,000.

Worcester, Mass. The Riverside Mills are running full time, having recently installed new machinery.

Providence, R. I. The Joslin Manufacturing Co. will erect a new dyeing and bleaching house at its merino mills, which will have a capacity of about 75,000 pounds daily.

Providence, R. I. The local plant of the Crompton & Knowles Loom Works is running full time, their output of fancy cotton looms for the last three months being the largest in the company's history.

Woonsocket, R. I. The Woonsocket Machine & Press Company is erecting a building, six stories high, which will provide 30,000 feet of additional floor space, and enable them to take care of their increased business. At the present time they are working overtime, two nights a week.

Mystic, Conn. The Ninigret Mills Co. will install fifty additional looms, thus increasing their equipment to 162 looms.

South Coventry, Conn. Thomas H. and James A. Wood, L. Tyler Townsend and John L. Martin, South Coventry; Julius H. Mueller and Charles E. Martin, Rockville, have incorporated the H. T. Wood Co., to manufacture silk, linen and cotton goods. Capital, \$30,000.

Stafford Springs, Conn. The Stafford Worsted Co., which has removed to Woonsocket, has sold its mill buildings

to the Warren Woolen Co., affording them the room needed for expansion.

Stonington, Conn. The American Velvet Co. is rushed with orders and it is reported will install additional machinery in order to take care of the business.

Taftville, Conn. The Ponemah Mills Co. has its new \$250,000 weave shed, and for which ground was first broken in July, 1909, practically completed.

Houlton, Me. The Houlton Woolen Mill will erect an addition 60 by 116 feet.

Sabbatis, Me. As soon as the addition to the Klondike Woolen Mill is completed, work will be begun on another addition.

Sangerville, Me. The Dumbarton Woolen Mills, of Dexter, have leased the plant of the Campbell Manufacturing Co. Both plants will be under the management of George Park, of Dexter.

Waterville, Me. The National Woolen Co., damaged by fire on April 26, is being repaired, and will be running by this time.

Meredith, N. H. The Meredith Linen Mills have added a number of looms to their plant.

Wilton, N. H. Work will be resumed at the Wilton Woolen Co., which has been closed for eighteen months. P. F. Amidon, who operated the mill for twelve years, will again operate it, manufacturing waterproof clothing and affording employment to about 100 operatives.

Winooski, Vermont. The work on the new spinning mill is about completed and will be turned over to the American Woolen Co. shortly.

Wilmington, Del. The Glenn Hosiery Co. is installing 32 new knitting machines and increasing the capacity of the dye plant about one-half.

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BALTIMORE

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WORKS ON ART. For Textile Workers, Upholsterers, Architects, Sculptors, Engravers, Metal Workers and Designers of all branches. The latest publications constantly received. TAPESTRY PAINTING AND STENCIL MATERIALS. CARPET CRAYONS, for spotting out. Made in 72 shades.

General Catalogue of Artists' Materials, Vol. 325, sent on request.

Cliffside, N. C. The Cliffside Mills, manufacturers of gingham, are to install a bleaching and indigo dyeing plant.

Durham, N. C. The Durham Hosiery Mills will increase their capital stock from \$350,000 to \$1,000,000.

Enfield, N. C. The Enfield Hosiery Mills Co. has incorporated with a capital stock of \$150,000, of which half is paid in.

Kings Mountain, N. C. C. E. Neisler, a prominent mill man of the South, will establish the Pauline Mills here. The equipment will consist of 32 looms for weaving figured damasks.

Statesville, N. C. The Steele Hosiery Mill will install 25 additional machines for producing women's hosiery.

West Durham, N. C. The construction work on the new Erwin Mill has been completed.

Zirconia, N. C. L. J. Jones, of this place, and U. G. Station, pres. of the Peoples Natl. Bank, of Hendersonville, N. C., are the promoters of the knitting mill to be established here. Capital \$25,000, reported all subscribed.

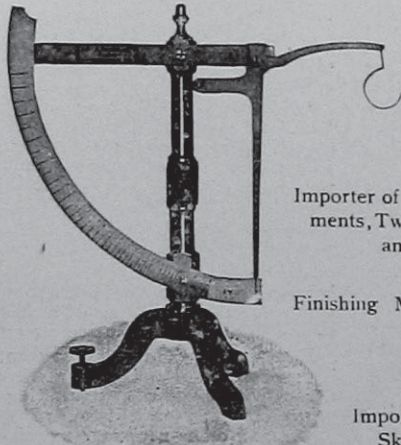
Abbeville, S. C. J. Allen Smith, of this place, and others, are planning the erection of a cotton mill, capitalized at \$100,000.

Catechee, S. C. The Norris Cotton Mills are planning the replacing of remainder of their plain looms with automatic looms during the summer.

Columbia, S. C. F. S. Evans, G. H. Taylor and W. R. Cothran have incorporated the Panola Cotton Mills, with a capital of \$300,000.

A. SUTER

TEXTILE ENGINEER



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Mill Supplies.

Importer of Schappe on Cops, in Skeins, in Singles and Doubles.

J. VILLARD & CIE, - LYONS

Greenville, S. C. J. D. Gilreath and others have incorporated with a capital stock of \$50,000 for the manufacture of underwear.

Greer, S. C. The Victor Mfg. Co. is contemplating increasing its capital stock by \$250,000.

Liberty, S. C. It is rumored that the Calumet Mfg. Co., yarn spinners, will increase its capital by \$70,000 to provide for 250 additional looms to weave its entire product.

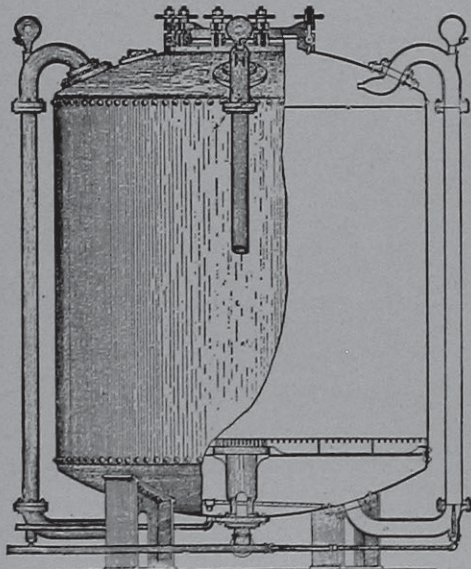
Simpsonville, S. C. The Simpsonville Cotton Mills has increased its capital stock from \$150,000 to \$500,000 to build a two-story addition 134 by 300 feet, and provide additional equipment of 16,000 spindles and 400 looms.

Whitney, S. C. The Whitney Manufacturing Co. has increased its capital stock from \$350,000 to \$500,000.

Yorkville, S. C. The York Cotton Mills will increase their capital from

WM. ALLEN SONS CO.

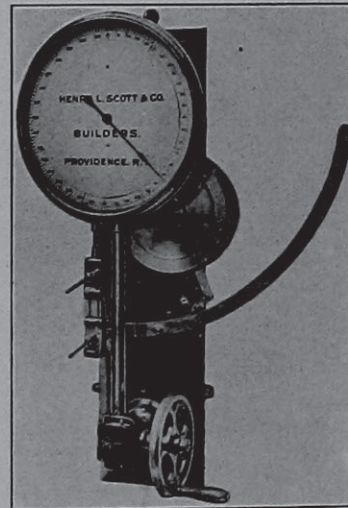
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TEXTILE WORKERS BUREAU

The object of this department is to place manufacturers in touch with competent superintendents, designers, overseers, etc., when in need of the same and to put the latter in touch with the most desirable openings in the textile field.

This service is free to subscribers.

This department is under the supervision of Mr. H. Nelson Craig, known to a majority of manufacturers and overseers, and all matters will have his immediate attention.

INQUIRIES FOR HELP

Designer with original ideas for making cotton warp and worsted filling dress goods; must be experienced and have a knowledge of the trend of the trade; state reference and salary expected.

Wanted:—First class Boss Weaver, also Loom Fixer, on Fancy Horse and Bed Blankets. Apply Wallace & Smith Blanket Mills, LaPorte, Ind.

Overseer of spooling and twisting, young energetic man, is open for a position. O. S. 52.

Boss-fixer, married man, extensive experience on all kinds of cotton goods, desires to make a change. B. F. 53.

Overseer of Drawing, married man, desires position. O. D. 54.

Boss Weaver or Superintendent, married man, has had extensive experience in one of the largest mills in Massachusetts. O. W. 55.

MILL NEWS—(Continued)

\$150,000 to \$300,000, will install 160 looms and convert all yarn into sheeting.

Fergus Falls, Minn. Gunder Bartleson and others have incorporated a new woolen mill company, capital \$100,000, of which \$20,000 are to be appropriated for the factory building.

Mena, Ark. The Cooperative Development Club, G. B. Wood, secretary, is planning the organization of a company to build a cotton mill.

San Francisco, Cal. W. Morris Cashman, formerly manager of the Golden Gate Woolen Mills, of this city, is planning to establish a woolen mill here.

Olympia, Wash. The Olympia Knitting Mills have installed four sewing machines and four knitting machines, making 12 of each kind in use. J. C. Van Eaton has been appointed business manager, secretary and treasurer of the company.

Canton, Ga. The Canton Cotton Mills have completed their addition, a 165 by 300 foot building, costing \$45,000, and added 10,000 spindles, 300 looms and accompanying machinery at a cost of \$235,000.

Dalton, Ga. It is stated that the Eagle Hosiery Mills, which were completely destroyed by fire on May 14, will be rebuilt.

Dublin, Ga. W. D. McNeal, of Fayetteville, N. C., and others have reorganized the Georgia Cotton Mills which have been idle for the past year.

Morristown, Tenn. The Hamblen Hosiery Mills has been incorporated with \$50,000 capital. C. H. Bacon, of Loudon, Tenn., will probably be general manager.

Louisville, Ky. The new plant of the Bradford Worsted Spinning Co. is in operation, employing about 300 hands with an output of 20,000 pounds of yarn weekly.

Cuba, Ala. L. Poole is reported as interested in a plan to establish a hosiery mill.

Huntsville, Ala. The Lowe Mfg. Co. has increased its capital by \$200,000, providing for the liquidation of a debt and to pay in part for extensive alterations.

Elyria, O. Additional equipment has been installed by the Fay Stocking Company, including fifty knitting machines, together with two dyeing machines and other necessary machinery.

Fort Wayne, Ind. The Wayne Knitting Mills will enlarge their dye house.

Fort Wayne, Ind. The Old Fort Knitting Mills have been completed and are now in operation, and it is the intention of the company to increase its equipment within a short time. At present, they employ 125 hands and operate their own dye and finishing plant.

South Bend, Ind. The Stephenson Underwear Mills will erect a new four-story brick and concrete building at an approximate cost of about \$80,000 and will install spinning, carding and finishing machinery.

Grand Rapids, Mich. The Sanitary Knitting Co. have increased their equipment, thus giving employment to a number of new hands.

Chicago. The Boynton Wool Scouring Co. has moved to its new mill at 3601-11 Iron street.

Chicago. The Fred Strauss Dye Works will erect a new plant at Sheffield Ave. and Marianna St. at an estimated cost of about \$125,000, and will cover an area of 125 by 150 feet. This will be the first dye house of any consequence in Chicago and it is said will prove a strong competitor with large eastern concerns.

Jefferson, Wis. Owen & Sons Co., which recently leased the old woolen mills here, are now planning a knitting mill, the yarn for which will be supplied by the woolen mills.

Mauston, Wis. The Portage Hosiery Co. has commenced operation in a temporary building, and is planning to erect a modern factory.

Milwaukee, Wis. Work will be started at once on the two-story addition, 132 by 40 feet, costing \$15,000, for the Milwaukee Worsted Cloth Co.

ABOUT MEN YOU KNOW

Elmer H. King has been appointed selling agent for the worsted yarns of the new French spinning plant of the Germania Mills, Holyoke, Mass.

Charles A. Heaton has been appointed asst. mgr. of the men's wear department of the U. S. Worsted Co., New York.

Frank W. Austin is the new boss dyer of the Namquit Worsted Mills, Bristol, R. I.

Fred P. Harmon is the new boss finisher of the Cocheco Woolen Mfg. Co., E. Rochester, N. Y.

Joseph W. Bailey is the new superintendent of the Samoset Mills, Central Falls, R. I.

J. C. Beyers is the new boss carder at the Aragon Mills, Aragon, Ga.

Benjamin C. Chace, Jr., has taken the position of manager of the Crown Manufacturing Company, Pawtucket, R. I.

Henry T. Deprez is the new designer with the Continental Worsted Co., Providence, R. I.

Jeremiah Emery is the new superintendent of the Beaver Dam Woolen Mills, Beaver Dam, Wis.

Geo. A. Elliott is the new overseer for J. Broadbent & Son, Unionville, Conn.

James Cunningham is now in charge of the worsted yarn dept. of the Wuskanut Mills, Farnumville, Mass.

H. M. Clark has been appointed superintendent of the Canasawacta Knitting Co., Sherburne, N. Y.

Sam Hird is the new superintendent of the Sterling Mills Co., Bridgeport, Pa.

Timothy J. Halloran is the new boss carder of the Natick Mills, Natick, R. I.

Edward F. Gregg is the new boss comb for the Holmes Mfg. Co., New Bedford, Mass.

Spencer Turner is the new gen. manager of the Consolidated Cotton Duck Co., N. Y.

Edward McDermott is the new boss finisher at Edward T. Steel & Co., Bristol, Pa.

Jno. G. Moore is the new boss dyer of the Davenport Woolen Mills Co., Davenport, Ia.

Thomas Minnahan is the new superintendent of the Forestdale Mills, Forestdale, R. I.

Richard W. Owens is the new boss weaver for the Beoli Mill, Fitchburg, Mass.

Samuel Pearson is the new boss weaver at the Pontiac Mfg. Co., Pontiac, R. I.

Alfred Pierson is the new boss weaver for the White Rock plant, of B. B. & R. Knight, White Rock, R. I.

Peter H. Trahan is the new boss weaver for the Manville Co., Manville, R. I.

James McNaughton is the new boss weaver of the Gosnold Mills, New Bedford, Mass.

Gaff Bros., 346 Broadway, New York, have been appointed selling agents for the Kavanaugh Knitting Co.

Van Court Carwithen is the Philadelphia representative for the Muscogee Mfg. Co. and Swift Spinning Mills, Columbus, Ga., having opened offices at 205 M. & M. Bldg. for this purpose.

Peter Oliver is the new boss weaver for the No. 3 Boott Mill, Lowell, Mass.

James Reynolds is the new designer for the French River Textile Co. (Branch), Woonsocket, R. I.

E. Rumallov is the new boss weaver

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GEO. S. HARWOOD & SON, 53 State St., Boston, Mass.

at the Warren Woolen Co., Stafford Springs, Conn.

William Small is the new boss weaver at the Enfield Mfg. Co., Enfield, Mass.

W. H. Swift is the new superintendent for the Lebanon Woolen Mills, Lebanon, Tenn.

Edward Truesdale is the new boss spinner at the Eagle Lake Woolen Co., Jefferson, Mass.

Chas. N. Sumner is the new asst. supt. of the Turner's Falls Cotton Mills, Turner's Falls, Mass.

Albert D. Milliken is the new superintendent of construction at the Hamilton Mfg. Co., Lowell, Mass.

John H. Lord has connected himself with the women's wear department of the U. S. Worsted Co., New York City.

L. J. Morin is now designer at the Mt. Battie Mfg. Co., Camden, Me.

John D. Nagle, for years treasurer of the Textile Record Co., Philadelphia.

Samuel Robinson, one of the pioneer worsted manufacturers in the United States, Lawrence, Mass.

Joseph Loth, of Joseph Loth & Co., Norwalk, Conn., and 65 Greene street, New York.

Irwin C. Kerkeslager, proprietor of the Keystone Mills, Manayunk, Phila.

William A. Barrell, agent of the Lawrence Duck Co., Lawrence, Mass.

W. O. Musser, office manager, Cooper Underwear Co., Kenosha, Wis.

John A. Osborn, a director of the Norwalk Mills Co., Norwalk, Conn.

Clarence E. Taylor, president of the Lion Manufacturing Co., St. Johnsville, N. Y.

Frederick J. Baldwin, New York selling agent for the Grosvenor-Dale Co., No. Grosvenordale, Conn.

Samuel Edgar Allen, for a number of years connected with the New York office of the Nashawannuck Manufacturing Co., Easthampton, Mass.

Joseph Goldsmith, manufacturer of infants' and women's underwear, Reading, Pa.

Alfred Hanson, for many years boss spinner, Riverside Mills, Olneyville, R. I.

Vaughn Hildreth, for the past 11 years superintendent of the spooling and warping, Eclipse Mill, Arnold Print Works, North Adams, Mass.

Joseph Irons, for a number of years boss carder, Oak Valley Worsted Mills, Tarkiln, R. I.

Solomon Miller, head of Miller Bros. & Co., Philadelphia.

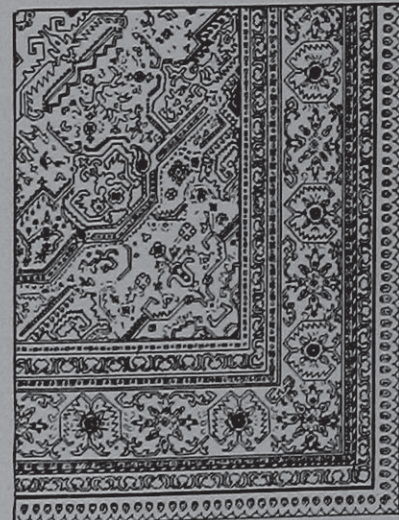
William Samuel Moffett, boss carder, Ricketts & Shaw Co., Monson, Mass.

William E. Sherman, for over 40 years superintendent of the Westport Manufacturing Co., Westport, Mass.

Samuel Watson, formerly for years superintendent of the Flint Mills, Fall River, Mass.

Walter B. Heath, until five years ago overseer of the cloth room, Armory Mills, Manchester, N. H.

NEW DESIGN.—Patented.



OBITUARY

John M. Russell, for six years, until he retired on account of ill health, treasurer of the Crompton & Knowles Loom Works, Worcester, Mass.

William Broadhead, president of William Broadhead & Sons, worsted mills, Jamestown, N. Y.

Flavius J. Goodspeed, founder and head of the Wilton Woolen Co., Wilton, Me.

William A. Hinds, president of the Oneida Community, Ltd., Oneida, N. Y.

John Booth, president and treasurer of the Pawtucket Spinning Ring Co., Central Falls, R. I.

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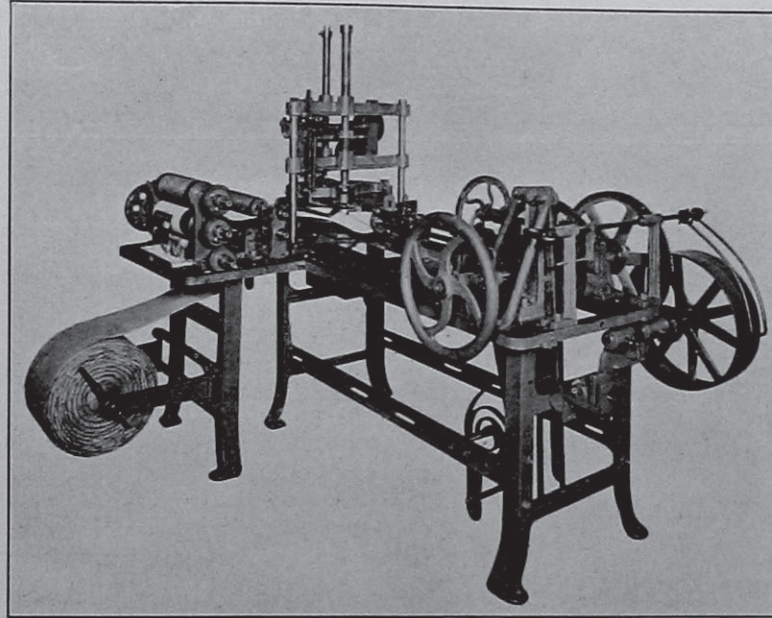
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NEW YORK CITY
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Cop Tube and Cone Machinery.

Most yarn mills until now have bought their supply of tubes and cones from manufacturers. The drawback experienced by them is that when in want of

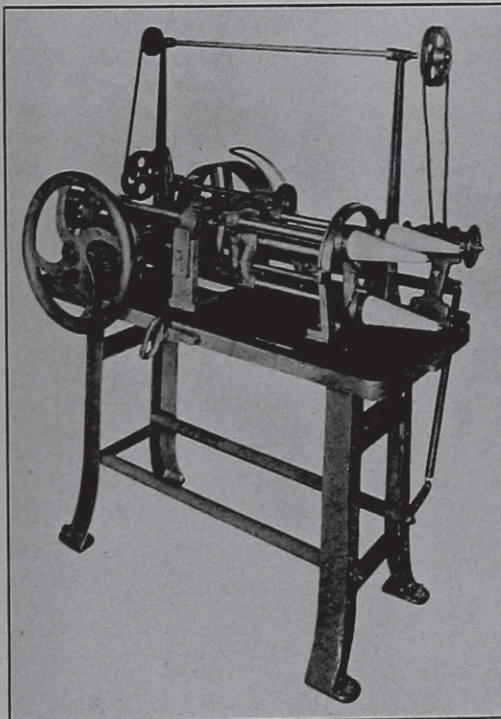
Now there is a chance that many a yarn spinner has never considered the idea of manufacturing his own tubes and cones, and thus be independent of the cop tube manufacturers. He may not be aware



THE EPPLER MACHINE FOR MAKING PAPER CONES.

tubes or cones they are delayed with deliveries by the cop tube manufacturer, he having orders booked

how easy and with what little cost such machinery can be installed by him, although he knows the convenience such an auxiliary plant would give to his spinning department. With reference to the cost of such an auxiliary department to the mill, the same is very small, since after the first cost of installing the machines, there is practically no other expense outside of the stock, and one girl operator while the machine is running.



THE EPPLER MACHINE FOR TRIMMING PAPER CONES.

ahead or possibly taking more orders than he can reasonably fill in busy seasons.

The John Eppler Machine Works, 629 Filbert street, Philadelphia, Pa., make a complete line of tube and cone machines, including single spindle machines; double spindle machines; shell machines; tube polishing and corrugating machines; cone making and cone trimming machines; conette machines, *i. e.*, machines used mostly by silk manufacturers; rotary paper cutters, to cut stock to the required width for tubes and cones; etc.

Means For Efficiently Controlling The Air Currents In Stock Driers.

The same refers to an improvement in driers in which a plurality of endless aprons convey the stock from the top one through the others and deliver it at the bottom.

Of the accompanying illustrations, Fig. 1 is a side elevation of such a drier, a portion of its side being shown partly broken away to show its interior, in section. Figs. 2 and 3 are transverse sectional views on the lines *x-x* and *y-y* respectively of Fig. 1.

1, 2 and 3 are the endless aprons for carrying the moist stock during the drying process, 4 is the feed

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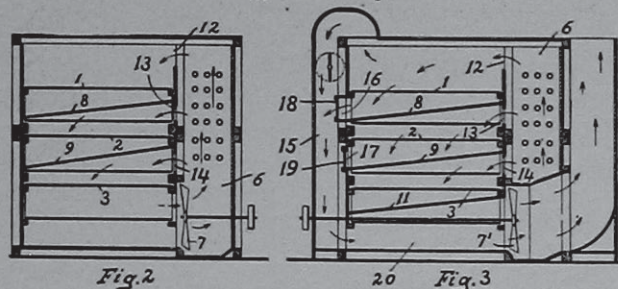
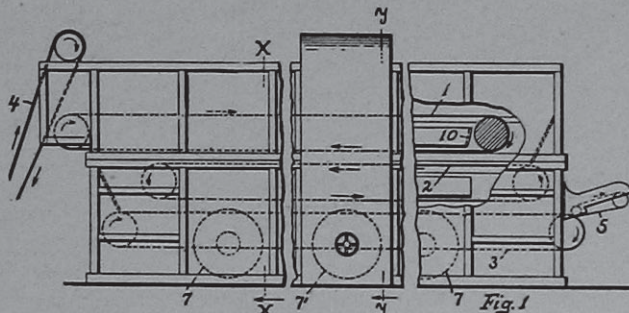
KAUMAGRAPH COMPANY

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and 5 the delivery apron. 6 is the heating chamber, 7 and 7' are fans.

In order to control the direction of the air currents in the new construction of a drier, oblique partitions 8 and 9 are placed under each of the top strands of the upper aprons. Partition 8 extends about the whole length of the apron 1 and terminates in inclined walls 10 to direct the air currents in the proper direction. Partition 9 however does not extend the full



length of the apron 2 so that the space at the end is left for the free circulation of the air downwardly at its ends. Partition 11 serves as a cover for the outlet box and extends only throughout the width thereof.

THE AIR CIRCULATES IN THE FOLLOWING WAY: It is blown in through the openings 12, 13 and 14 at the top of the stock of each of the aprons. The air circulates down through the stock on these aprons and divides, part passing into the conduit 15 from which it is discharged from the machine, and part circulating along the aprons, or, in the case of the apron 1, passing upwardly into the passage from the

upper part of the drying chamber. The part which moves along each of the partitions is discharged from the ends thereof into the compartment below so as to be circulated over and over again by the fans 7. When it is found that the air discharged has not taken up enough moisture, the openings 16 and 17 are regulated by means of doors, 18 and 19 respectively. When they are closed, all the air discharged into the drying chamber below the partition 8 must circulate longitudinally thereof, and be discharged at the ends, where it can be taken up by the fans 7 and circulated again through the machine.

The air is discharged from the drier by means of fan 7' through a box 20 at the bottom, the top of which is formed by the slanting partition 11. Fan 7' is on a shaft passing through the machine, and driven from the opposite side from which the fans 7 are driven.

FINISHING INDIGO BLUE COTTON PIECE-GOODS.

By E. Uhler.

Frequently difficulties arise in finishing cotton fabrics dyed with indigo, caused by not understanding the special nature of the goods under treatment.

The goods in question are used almost exclusively for workmen's overalls and aprons, hence they must be dyed to resist the severe washing such articles must undergo; besides this, they must be reasonably fast to atmospheric influences, including light.

Indigo-dyeings are not a chemical combination of dye with fibre, in fact do not show much mechanical adhesion. The indigo-particles are only lodged loosely between and within the cotton fibres, and, during the rubbing involved in washing, are got rid of at a rate depending upon the procedure observed in the dyeing process, length of time taken, etc.

Exposure of the dyeings to light and air calls into play actions of the ozone and peroxide of hydrogen in the air, both of which are energetic bleaching agents, and destroy indigo fairly quickly.

The duty of the finisher is to delay this loss of color, whatever the destructive agent may be, by loading the fabric with a size difficult to get rid of. Such a dressing coats the particles of indigo with a pro-



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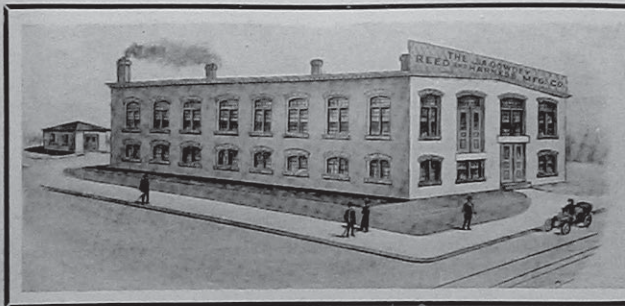
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tective sheath, which must be removed before the dye can be taken out, either by chemical or mechanical means. Agents capable of effecting such results are few in number; the mass used must be difficult of solution in warm water, and must not injure the color effect.

Dextrine and Epsom salt sizes respond to the latter demand, but have the drawback that they are lost at the first washing, leaving the indigo-particles exposed. Starch-dressings are very prone to smudge the dyeings, and glue makes the fabric too stiff. For a fact the introduction of diastafor has improved matters somewhat as regards starch-sizes, but it makes the dressing soluble if it is allowed to act too long, and it does not help the smudging if its action on the starch is cut too short.

There is, however, a substance which has all the advantages of dextrine and starch, without any share in their drawbacks. This is carageen moss (see pages 162-163 of the June 1909 issue for a thorough description of this sea weed, its finishing properties, etc.) an extremely cheap and valuable substance, which is suffering from great, but entirely undeserved, neglect. It is seen at its best in natural finishes, *i. e.*, when the fabric undergoes no severe pressure by calendering or mangling. The fibre must be round and full, and show no lustre.

For other sorts of finishes the moss cannot be used alone, since heavy pressure squeezes it all out. If, however, it is mixed with any solid substance, such as dextrine, glue, starch, etc., it also answers well in these cases, and removes the previously referred to disadvantages of these dressings almost completely.

For a natural finish to an indigo blue twilled fabric, the dressing is made with 3 lb. of moss and 20 gallons of water.

For a calender finish, the recipe is as follows:

Water 20 gals.	Dextrine 3 lbs.
Moss 2 lbs.	Glucose 10 "
Glue 2 "	Oil 1/4 "
Epsom salts 10 lbs.	

An alternative recipe is:

Water 20 gals.	Farina 10 lbs.
Moss 1 1/2 lbs.	Diastafor 0.15 "
Epsom salts 15 "	Oil (about) 1/2 "

The farina is first treated separately with the diastafor, and then mixed with the other ingredients. To guard against any possible loss of color, Methylene Blue may also be added, to the extent of about one-third of the weight of the diastafor.

Every carageen moss dressing requires treatment with a 1 : 3,000 solution of formaldehyde, as soon as it is cold, as a preservative; especially in hot weather. The size should be filtered through a fine sieve into the vessel where it is to cool. The dressed goods are dried on frames, and then calendered, or not, according to circumstances.

Carageen moss requires a preliminary treatment before being worked up with recipes given, or any other; the quantities of the moss given in the recipe indicates the weight of the dry moss before the preliminary treatment, which consists in first soaking the moss for 24 hours in lukewarm water, and then boiling it for from four to six hours in a jacketed copper pan, and finally filtering it through a sieve. If the resulting mucilage is not to be used at once, formaldehyde should be put to it as soon as it has passed the sieve, without waiting to add the preservative until the size has been amalgamated from all the ingredients.

CHINA'S WOOLEN MILLS.

A new move is about to be made in the introduction of woollen clothing for the modern drilled army of China, and this may possibly prove the first step toward the more general adoption of woollen clothing throughout the country, a result which followed the same action in Japan. Unfortunately for the British manufacturer, there are indications that China means to supply her own demands in this respect. Two Chinese woollen factories have been recently established, which will deal with the requirements of the army board for woollen clothing. One is at Shanghai, a large building fitted with up-to-date Belgian machinery and employing at present several Belgian operatives to teach the Chinese students. It is claimed that this factory is capable of turning out sufficient clothing for 1,000,000 men. The other was established in 1908 at Chingho, about 6 miles from Peking. It is well equipped with British machinery and employs three or four British operatives. If the civilians of China show any inclination to follow the lead of the army in wearing wool, there is little doubt that the number of such factories will increase.

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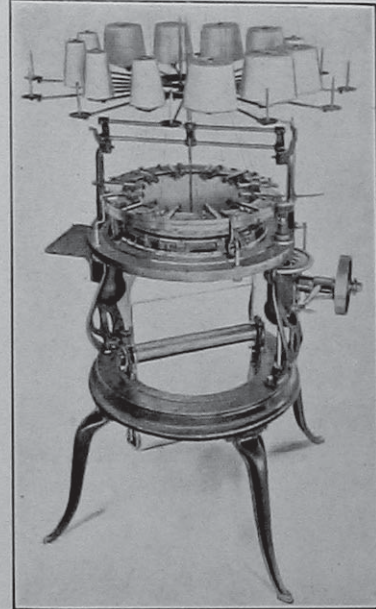
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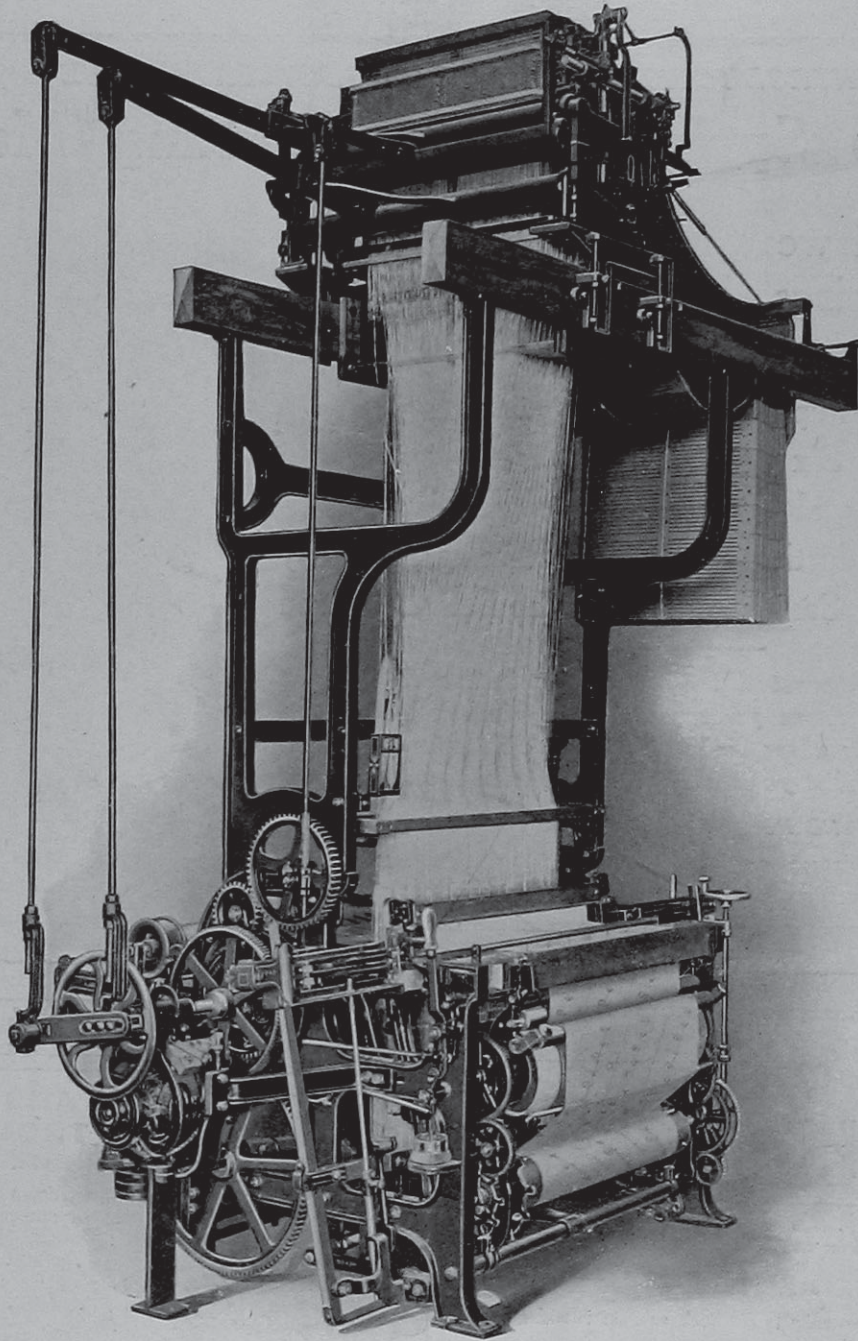
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