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## DRYING WOOL BEFORE CARDING.

The wool worked in a spinning mill is not dried, but merely whizzed well before carding, and the ques-- $n$ is asked whether it wuold not be of advantage in the spinning of the staple if the wocl were dried pre.iously? In answeriag this questoon, the expenenct: of German manufacturers may be of interest. A wrter in the Monatschrift fur Textil Industrie, after remarking that it is the aim of the spinner to produce an eyen yarn, says this can be oltained only when a certann juantity of water is added to the oil used for lubricating the wool in a dry state.

The adage that "experience is the best teacher " applies forcibly to the matter of oiling wool. Many a manufacturer has experimented according to his own
ideas, but has iound himself forced to return to the old established method. It is best to adhere to the old and well-tried methods of lubricating wool, viz., to first dry it, and then while in a dry condition apply the required quantity of lubricant. No precise rules can be laid down, because the nature of the lubricant, as well as that of the wool, must be taken into consideration. For delicate colors and mixtures, olive oil is to be preierred, while for general purposes oleine is the lubricant most employed, principally because it readily saponifies with aqua ammonia, and does not then require any great amount of washing. If this lubricant is free from acid, the following directions should be observed. For a well-dried wool, capable of being spun into a thread of about 18,000 meters per kilogramme, 12 per cent. of oleine is generally used, and double that quantity of hot water, adding sufficient aqua ammonia to effect a complete mixture of the two substances. This is produced by continued stirring with a broom, and the mixture is to be used at once. By following this recipe it is not difficult for the expert to determine the necessary quantity of lubricant to be employed, taking a little less for inferior wool which requires less oil, and a little more for a better-grade staple. The color, the quantity of lubricant which much wool naturally contains, etc., must also be taken into consideration

Carders generally agree on the correctness of the above rule, as long-continued experience has fully demonstrated the fact that wool in this condition works best upon the carding engine. It is also a well established fact that this manner of lubrication exerts the best influence upon the elasticity of the yarn in tine spinning, and, besides-and this is a very important point-the clothing of the carding engine is least injured. It wuald, therefure, appear induisable to treat the wool while in a wet state, even though it had been whizzed, because, no matter how well this uperation might have becr perfurmed, the wuol would stull con tain too much water. This excess of water causes great mischief, as it cannot enter into combination with the oil. The quality of the yarn depends principally upon the equal percentage of water throughout the entire lot of wool, as the weighings for the carding engine are always alike. Besides this, the method could be followed only in spinning mills, in which white or single-colored wool is worked exclusively.

Again, it is not difficult for a manufacturer to divide a lot of wet wool into two portions, then whizz one and fet the other become dry before they are worked. Which of the two methods was really the more rational could then be readily decided. It may be asserted with perfect safety that there are few adherents to the method first suggested. The wool coming from the wash tub is sofiened by the water, and can offer no resistance to the force of the card teeth, and, in consequence, tears more readily and is reduced in length. Should the wool not have issued perfect $y$ clean from the washing process, more injury is done, because the earder will find his card clothing gummed up, thereby necessitating more frequent cleaning and greater loss by increased waste. When a lot of dyed wool is in hand these evils are doubly aggravated. Many lots of dyed wool, in spite of the enost careful masing, contain partickes of color dust when delivered to the spinner, and when the wool is not dried it cannot be dusted. The adhering dyestuff combinos with the lubricant and gums up the card clothing, whale the wool being insufficiently oiled, passes thruugh the card, turns out poor in yiehl, and makes a mediocre and often a weak yarn.

It might, perhaps, be asked, why should the wool be dried, since water is added to it as soon as it enters the spinning room, and, consequently, the heat used for drying is wasted to no purpose? At a superficial glance this consideration may appear important, bet it really is without force. When closely studying the carding process, it will be seen at once what a great difference there is between wool softened by the liquor of the dye or wash bath, and that moistened superficially with water and oul, for the purpose of making it more pliable for spinning. While in the dye or wast: bath the wool absorbs water to the limit of its capacity, while the percentage of oil and water used for lubricating is only sufficient to moisten the wool superficially, and make it more gielding.

## UNEQUAL FULLING OF WOOLEN GOODS

How to reduce the feltung capacity of woolen yarn spun from wool and nols, which fulls too much a pro. portion to other yarn with which at 1.5 woven, is discussed in a recent number of Das Deutoche WollenGieserbe. The correctives applied in a case which served as an illustration were steaming and washing in watm water to wheh was added a little suda solution, but the espult was nut satusfatory. The writer says that perhap,s another factor must also be cunsidered which has not been stated in the case, namely, that the duterent , arns in the cluth are woven in different bindmgs, as is uften the case in striped and checked goods. Although it is not to be understoud that one binding meteases the feltug capacity of one hind of yarn and dummestes that of another, it is well established that the feltang process with bindings containing few crossmgstakes placo fas quathet than with those in which there is an eypal number of ends and pocks in a certain mensure, and the crossings are more frequent. If no
attention is paid to this circumstance when using various sort's of yarn, another crror is likely to be committed at the same time by taking the yarn with greater felting capacity, in this case mixed with noils, for those parts of the weave in which the felting process naturally or:curs quicker by reason of the more favorable bindin $;$ proportions. Consequently the unequal felting of the cloth in the fulling will be much more perceptible.

Manipulations such as the steaming of the different yarns, even under strong pressure or a washing, or even a boilitg, are of very little use in cases of the kind spoken of. They are rather calculated to render the process of felting more difficult, without taking into account the extra cost and trouble irreurred. The noils, being the short and generally also the strongly curled staple separated in the combing, are the mischief makers, as in the present instance. They possess a great felting capacity, and if the supposition concerning the employment of various kinds of binding for the weave in question is correct, it would be advisable to always use the yarns with a smaller inclis.- ${ }^{-1}$ on to felting for those parts of the weave which, in consequence of their more favorable binding proportions, felt more readily in the fulling. This precaution would result in a better equalization of the frlting.

Another remedy may be used in such cases. Those parts of the weave which felt with more difficulty than others may be drawn in not quite as heavy as other parts. For instance, they night be drawn in such a munner that in every alternate dent, or in every third dent of the reed, one end is drawn in less than in the other dents.

## CAN WOOL DEVELOP COMBUSTION ?

"The question, can wool develop combustion? will strike practi-al men in this part of the world as ralher amusing," remarks the Bradford Observer, England. "It is true that wool does not go off like a flash in a pan, as cotton does under such circumstances; but that it is capable of being fired, and even of firing itself, is an elementary fact which must be admitted by every one who has anything to do with it. So one would suppose. In Melbourne, however, where they certainly ought to know the behavior of wool, there appear to be some skeptics prepared to deny even that axiomatic propositiun."

Several months ago the Economist discussed the question in reference to the dangers of vessels laden wath damp-packed wool, and for this deliverance it was severely taken to task by the Melhourne Argus, which is reported as having roundly asseried that by univer sal expenence wool is not inflammable, and that it is ampossible to burn it. Evidently this self-imposed delusion does not prevail generally at the Antipodes, for the Economist, now returning to the charge, is able to quote a good deal of interesting Australian testiniony concerning the danger to which it drew attention. Last September, as the Otago Times reports, the cargo of the "Gothic" had to be taken out in port, the wool beiug
too hot to hold, and scorched in several places. Sevcral other instances of a like kind having occurred, the New Zealand Legislative Council appointed a committce of inquiry; but apparently the wajs of circumlocution are not unknown under the Southern Cross, and the report of the committee is not yet forthcoming. In the meantime the Sydncy underwriters' association employed an expert to examine consignments of wool delivered for shipment. He tested thirtecn bales, and could only report that six of them were pissable. Of the remainder one was suspiciously, and the other six dangerously, damp, besides being in several instances reprehensibly dirty. The Economist very rightly insists on the gravity of a piece of bad practice which may some day lead to an outbreak of fire in the hold of a mail steamer in mid-ocean. This is no fanciful alarm. In the carly days of the Australian wool trade more than one of the nld Black Ball line experienced the horrors of spontancous combustion, and every reasonable precaution ought to he exercised by the shippers.

From the report of the Sydney expert this is evidently far from being the case. He states that the washing works are "ail that can be desired," but that the processes are extremely hurried and carcless. Of course, perfectly dry wool is abcut as attainable as the end of the rainbow. The very virtues of its qualities are due in large part to its extremely low hygrometrical point, and wool pronounced dry one day may be perceptibly damp the next, through nobody's fault, but that of the clerk of the weather. Still Australia is a rich land in sunshine, and with a little care there ought to be no difficulty about delivering wool at the ports in fit condition to be packed. According to the Sydney expert, "it simply wants more time in all the stages of landling, and then all the trouble will end."

## FADING OF LOGWOOD BLACKS

It is a well-known fact that logwood blacks on wool, produced by different methods, vary greatly in fastness to light. Iron black is generally accepted as the most permanent color, and as it is incidentally, and as a rule, produced with the assistance of tartar, much credit is given to the latter substance. Equally good results, however, may be obtained with oxalic acid, bl-sulphate of soda, or pven sulphuric acid. Hence tartar cannot have much to do with the result. Far more important is the presence of sulphate of copper, which is most generally employed with copyeras, nor cuuld it be omitted without lessening the fastness to light of the black in a most striking manner. In comparing the relative fastness to light of iron and chrom. um blacks, it must be borne in mind that iron yields a greyish black, and is, therefore, to begin with, never employed but for very deep shades, while, on the contraig. blue chromam blacks of less depths are in frequent demand. Hence exposure inust apparently often show in favor of iron black, which, with its heavy deposit of lake, will offer a more prolonged resistance to light.

Chrome black may be modified to a jet black by fustic; but the presence of the latter, as it does not in any way add to the weight of the chrome-logwood lake, cannot, except unfavorably, influence the test of exposure. Moreover, chromium is frenuently used without the aid of copper. A pure chromium black cannot bear comparison with either iron-copper or chromium-copper blacks. But if we dye equal quantities of logwood upon chromium bottom and iron bottom, hoth containing the same amount of copper, no difference in the rate of fading is perceptible.

In regard to the respective value of chips or rasped wood and dry or liquid extracts, the former yield the more permanent black, though some extracts come very close. The dry, friable product oltained by treating liquid extract with 5 per cent. of nitrite of soda and drying at low temperature, is very rich, and yields exreedingly bright shades; but they are so fugitive to light that they cannot compete with an ordinary black.

## EGYPr AND ITS COTTON INDUSTRY.

A special correspondent of the London Times in Egypt has sent home some interesting and valuable papers on the situation in that country, and refers to the importance of the cotton crop as a factor in its prosperity. The annual income of the people, he points out, depends entirely upon the yield of their harvests and the marketable value of the surplus which remains available for exportation. The $\ell^{[E} \leq 2,789,687$ at which the total value of the exports for 1893 is officially returned, represents, with comparatively small and unimportant exceptions, the produce of the Egyptian soil, and nearly five-sixths of that amount represents the yield of cotton and cotton sced. In the autumn of 1894, within the space of a few weeks-indeed almost of a few days-the price of cotton fell suddenly from $£_{2}$ a cantar to $£ E_{1} \cdot 50$, and even lower. Compared with the average price of the preceding year, this was a fall of 25 per cent. There was a simultaneous and equal fall in the price of cotton seed. Had not a considerable portion of the crop been sold before prices reached their lowest level, the gross national income from this its princi pal source would have been immedi ately reduced by o.se quarter; but though the results of this disastrous fall will $n$ )t be felt to their full extent this seasen, they will have to be faced in 1895 unless prices recover, and unfortunately there is a general concensus of opinion among those most competent that. instead of looking for a recovery, one must he thankfil if there is no further fall. The situation is peruliarly serious, occurring as it does, in a market which has already been steadily declining for some years past. If this season's prires show a fall of nearly 25 per cent as compared with those of last season, the fall amounts to fifty per cent if the comparison is carried back in 19R9, before the precent downward tendency set in. Until now, however, an equally steady increase of production formel an effec. tive counterpoise in the shrinkage of values The fol lowing table which the Times correspondent gives of
the yield and value of the Egyptian cotton crops during the last fifteen years, illustrates the inverse ratio of the concurrent fall of prices and increase of aggregate value, which has been so notablea feature in the recent cconomic history of Egypt:-

| Eoymian | Cror | 79.94. |  |
| :---: | :---: | :---: | :---: |
| Yoars. | Quantity in Cantars of sokilon. | Averaze price jer Cant | Total agzregat |
| 3870-84 (annual avernac for the five yoara) $\qquad$ | 2.477,157 | $\mathrm{LL}_{3} \mathrm{IH}_{4}$ | (E7.929,707 |
| 1884-89 (annual averate for the fiva yoars) $\qquad$ | 2,735,037 | 2769 | 7.505.230 |
| 184800 | 2.871 .587 | 2.04 | 8,454.083 |
| 8890-9 | 3.639455 | 2549 | 9,281,209 |
| 18.21-92 | 4.194.580 | 2047 | 8,593.055 |
| 1892.93 | +1.010.3(9) | 2043 | 9.510,292 |
| 18,03-94 | 3.073,000 | 1980 | 9.639,430 |
| 189+-95 (approximato ostimate) | 5.000,000 | 15 | 7.50 |

It will be seen that up to 1889 , subject to slight fluctuations, both the prices and the yiedd remained on the whole nearly stationary, but from that date the situation undergoes a startling trans!ormation. Whilst the prices steadily decline, the production until this year increases by leaps and bounds, so that last year, with the lowest prices until then on record, the highest ag. gregate value was reached.

## THE FUSLING OF STRIPED BLANKETS.

To a query as to whether it is better to full yellow, mixed or white blankets having colored stripes, with soap in the cylinder machine or in the crank machine with fuller's carth, the tw.) following replies are given in Das Deutsche Wollen-Geieetbe:

The first advises the use of the crank fulling machine because, in order to prepare the blankets for the cylinder machine so as to have a sufficiently long rope, it would be necessary to sew a number of them together, and the seams would cause an unsteady motion of the machine. The use of soap $w$ uld give a more compact felt than fuller's earth. On the other hand, the los; of fibres wou'd be great ir with earth than with soap. If the loose feel produced by the earth is preferred, and if the somewhat hower $p$ ise of the earth is to be considered, it would be advisable to use the crank machine. Another point to beconsidered is whether the colored stripes are entirely fast. The alkali uf the soap might have an injurious effect upon the color, while the earth would not.

The question as to whether soap or fuller's earth, crank or cylinder fulling machine is best suited for fulling woolea blankets, ascording to the other reply, cannot be decided off-hand in favor of either method. It rather depends upon the quality of the cloth desired, whether loose or firm, and upon the quality of the wool mate. rial itself, as well as upon the fastness of the colors in which the stripes are djed. Soap produces a fimer and more compact piece of goods than fuller's eath, which gives to the eloth a looser ard more sp.ngy appearance. As there is a greater loss of fibre by the use of the earth, it is not advisable to use it for blankets of inferior and short material. In such a case the use of
soap and the cylinder machine is to be recommended. An important factor to be considered is the fastness of the colors used in the blankets. If they are not fast agninst fulling, soap cannot be employed. Even the urine, generally used for dissolving the earth, must sometimes be dispensed with, as it influences some colors, especially red. A point in favor of earth is that th: white of blankets fulled with it generally remains cleaner than when soap is used. The latter is apt to cause a yellow tinge, especially if a very alkaline soap is used. Nevertheless, if the colors resist soap at all, mixed an 1 colored blarkets can be fulled in the cylinder machine. In fact, its us: is to be recommended, as it improves the quality of the goods. .

## american ingrains in england.

Following the shipment of American moquettes to England, the firm of Boyd, Harley \& Co., of New York and Philadelphia, have sent a quantity of American ingrain carpets to England and the continent. Whiie this is flattering to American enterprise, Mr. Harley says, in an interview, that ne special significance can be attached to the sales of A merican carpets. in England. Apart from the sales which have been made in England by the Alexander Smith \& Sons Co., of Yunkers, N.Y., the only American carpets sent there are the cheapest grades of ingrains, made almost entirely of cotton. Smith \& Sons Co. are able to sell their goods in England because they manufacture a specialty which they control, and they have capacity for production which exceeds the demand for the home market, but for the goods they sell in England they get less than they receive at home. They have some little advantage over English manufacturers in the matter of machinery, but the trade is not important, for in Eng. land, as in this country, ingrain carpets are on the decline. As three quarter goods decline in price, peo. ple buy them in preference to ingrains. Country peop.e now are the principal buyers of ingrain carpets, and even the well-to-do farmer warts a Brussels carpet for his parlor nowadays. In Brussels and ligher grades of carpets the English manufacturers still have the advantage, end there is no chance for American goods of those grades in England.

Cosbentisg on the remark of a correspondent who objected to the union of Newfoundland with Camada on the ground that the islanders would have to buy Canadian "shoddy," the Textile Mercury, of Man. chester, remarks: "Federation with Canada would strengthen Newfoundland politically and financially, and for this advantage the islanders must give something in return. They need not buy Canadian 'she ddy' at all, even after union. Toronto, Montreal, and Quebec houses import very large quantities of textiles from Europe, and firms in St. John's could do the same, even after confederation. What the islanders seem to want-or some of them, at any rate-would appear to be financial assistance, without any conditions attached. They are not hkely to get it."

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All Kinds of Dry Goods in the Prece Re-dyed, Finished \& Put Up.

## MILLINERY COODS

Hibbons, Silks, Volvete, Plushos, Incees, Nets and Y'eiling technically traatod, Ro-dyed, Finlhed and F'ut up Wiork guarantead the bess.
Ostrich Feathers Dyed, Cleaned and Curlod, English or Parisian Mode.
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FRENCH CLEARINC
(Nettoyn ea Bace)
A worderfal Invention for Clea. Ine Vaney and Valuable Goods, Dress Suits and all oulior exgenelve artolos Goarantoed no Slurinkago or color zanalog.

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Buffalo Fur Oloth Coats Blacis Dogskin Cloth Coats Astrachans, Lambskins Stripe Joragz, Rider Down: Gloye and shoo Uning*

Factories at GALM, Ont., and BUPFALO, N.X.

## HAWTHORNE WOOLEN CO, Lid.

oarleton place, ont.
MANUPACTURERS OF
FINE TWEEDS, CASSIMERES, Etc.
SELLING AGENTS:
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## THE C. TURNBULL CO., OF GALT, Limited.

Full Fhahioned Lambia Fool Undorclothing, Hoalery and Knitting Yarna. Perfoct Flthigg Lalliea' Rlbbed Vesta, Sweatera, Jermeys, Knlckera.

## TEIE

## Dominion Cottan Mills So, Itid.

MAGOG PRINTS
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A FULL RANGE OF

## Pure Indigo Prints

is now being shown to the Trade. Ask Wholesale Houses for Samples.

All Goods GUARANTEED and stamped "WAR. RANTED INDIGO BLUE."

## D. MORRICE,SONS \& CO.

## MONTREAL and TORONTO

$\qquad$

Mckelvis \& Dumwoodis, Brandon, are moving to Winnipeg (,) open in dry goods.

THE warchouse of S. F. McKinnon \& Co., wholesale millinery, Foronto, will cost $\$ \$ 5,000$.

Work will shortiy be commenced on the new clothing face g .f Walter Biue, Sherbrooke.

Bane \& Buekr, retail dry gnods, Hamilton, have dissolved and the business will be continued by N. A Bucke
ir C. Wilkins, clothing manufacturer, ads movad from the Iraecr Duilding, Montraal, to rgs MeGill street.
R. N. Smyth, of H. L. Smyth \& Co, Montreal, who is now in Fingland, expects to return towards the end of May.

Grapton \& Co., retill dry, vols dea'ers and clothiers of Dun. das. Peterboro ant Owen Sound, are opening a branch in Hamilton.
J. W. Cannirf, manager of the Canada Corset Company's businiss, Montreal, died last month, and was buried in Belleville, his old home.
H. Shorey ico., wholesalo clothiers, Montreal, have sent to their customers photographz of Sir Mackenzio Bowell and Ilon. Wilfrid Laurier.

Costracis have been awarded for firamen's suits for the Winnipeg fire department, as follows: Thirty-six suits, to Wm. Scolt, at $\$ 17.65$, and an additional $\$ 8.25$ each for seven officers' suits. For thirty-six pairs rubber boots, the tender of the Iludson's Bay Compary at $\$ 2.1$ per pair was accepted.

## REMARKABLY LIKE WOOL! <br> Send for Samples, and examine the appearance and texture of <br> A very grand Mixing Cotton PERRVIAN COTTON gmazt handy betes. <br>  -Doaler sa- <br> FULLER'S EARTH, BORAX, CKEMICALS, etc.

## DICK, RIDOUT \& CO. <br> MANUFACTURERS' AGENTS <br> Representing <br> GEOROE HOWF \& Hzos., Manchenter, Kngland <br> Grass Cloths, Flannelettes, Cotton Dress Fabrles, etc. <br> GEOROE HOWE \& Bro., Dundee, Scotianit <br> Hessians, Hop Sackings, Webbings, etc. <br> Wholmbaly trade oncy supplizd

Head 0ite: TORONFTO
Brandes: MONTRELL ad TINTPEA Corkermondence Solicitidd

## J. Ironside Thomson commission merchant and manufacturers' agent <br> 胃uropesn Menufotures: <br>  <br> Plafn and Panoy Drems Goods and Ororoont Ianinge  <br> Gorcen, Flounss, Beavers, Ninps, Elster Cloths, otc. Canmalen Manafaotures: <br> GIILIES, son \& Co., Carleton Plsoe-Fine Twoeds HARRIS * CO., Iockwood-IMeses, e"c.

Lar Correspondence Soliched.
TOBONTO and MONTRTEAL

Josern Rlomer.y, card room overseer in the Milltown. N.f. cotton mill for tho past five yoirs, has resigned his position

Apaw inas ng, Henry Cohen, a loading Hobrew chotbier of Toronti, was arrested and rem injed on a chargo of fraudulently secrating his p:operty and assigning. Tha liurniture Associntion of Ontario is prosscuting the case.

Harkis \& Strivirt, uty goody dealers, Cha:lotetown, P EI. areclosed out undor bill of sale held by Gaule Bros. \& Co, of Montreal Tho business will be continued by T . J Harris in his own namo

Clayten © Sons, clothing manufacturers, Minlilax, N S havo moved into their now factoay and warehouse on jacob street The new building is soo feet square, four storics high, and 300 hands are now emploged by the firm

## das. A. Gavtue © Go. <br> GENERAL MEROHANTS AND MANUFAOTURERS' AQENTS riatabliahod 29 Yeark

Cottone-Grey, Sliectings, Checked Shiritnge, Denims, Cuttonades, TickInga, Intr. Yary, Twine, ctc.
Kweods - Finc, Medium and tow-l'riced Tweads, Scries, Candmeren, DueFlanvol -ulaln ind Fanct
Fannots Dialn and Fancy Flannels. Overcoat LIninge, Plain and Fancy
Knitted Goodís-Shirts, Drawers, Hoviery, etc.
Blankete-White, Grcy and Colored Blankots. R-s WHOLESALE TRADE C L' SUPRLIER
Albert Bullding, 200 st . James Strect . MONTREAL gO Wellington Bireet Went. . . . . TORONTO Advances made on Conslammente Coriesponilence sollelted.
ROSAMOND WOOLEN CD., ALMONTE, Oat.


Fine TWEEDS, CASSIMERES, and Fancy WORSTED sUITINGS AND TROUSERINGS
Colors warranted as fast as the best British or Foreign goois.
Hamilton Cotton Co., Hamilton

lamprick (standard and specilal sisse), Weblings, Bladiggr, elc. Mant in the EKLLEG AGFKTB:
D. MORRICE, SONS \& CO. MONTREAL and TORONTO Agents for beatn Warts: LAUL, FIBEND \& CO., TOHENTO Abrits for Webbitg : A. Mot. WATT, MONTREAL

## caradian cottones.

There has been a good deal of talk during the last two weets of a general rise in the price of Canadian cortons, in consequence of the rise ir raw cotton in the States and England. Egyptian cotton has gone up ithd. per pound, but this affects the finer grades of cotton, of which the amount made in Canada is limited. The rise in American raw cotton has proved to be of that fluctuating kind which leaves a good deal of uncertainty about it. There was a general rise in American goods quite recently, but the rise has not been maintained except in a few special lines. In England, Horrocks, Crewdson \& Co. have advanced their prices ait to 5 g m cent., and other makes have obtained slight advantages. Cotton and worsted yarns have risen, and both floor cloths and table oil cloths have gone up. For some lines of shectingo made by the Dominion Cotton Mills Company an advance of 5 per cent. has been asked, and the Merchants' Manufacturing Company have withdrawn the discount on one special line of goods, but as a matter of fact there has so far been no general advance made, and the prospective advance depends a good deal upon the tendency of the raw cotton market in the near future.

## EXPORTS OP TEXTILES-GREAT BRITAIN TO CANADA.

The following shows the value in sterling money of the shipments of wool and textile fabrics frem Great Britain to Canada for March and for the first quarter of this and last year:

|  | Nareb. |  | Three smonibs ended March. |  |
| :---: | :---: | :---: | :---: | :---: |
| Raw ureol | $L_{200}^{198 .}$ | $C \begin{gathered} \text { 2898. } \\ +36 \end{gathered}$ | $E_{2,090}^{2591 \cdot}$ | $L^{8895}$ |
| Cutten piece-rea | 30.090 | 40,146 | 164.534 | 152,65: |
| Jutc piece.goods | 5.833 | 7.608 | 27.737 | 25.572 |
| Linen piece-goods | 7.774 | 14.501 | 40,639 | 49.323 |
| Silk, lace | 3.424 | 2.500 | 15.48 l | 14.760 |
| " articles parily | 2.788 | -.6.58 | 9.661 | 7.85 |
| Woolen fabrics | 15.258 | 20,662 | 70.775 | 65.32 |
| Worstal fabrics | 36.416 | 47.392 | 31.3 .593 | 161.94 |
| Carpets | 27.333 | 28.526 | 89.358 | 83.740 |
| Apparel and alops | 24.736 | 38.934 | 6,6.672 | 100.24 |
| Haberdashery | $19.93{ }^{\text {¢ }}$ | 19:03 | 66,029 |  |

Belding, Pavl \& Co., silk manufacturers, Montreal, have introduced machinery for the manufacture of double satin ribbons. Samples of these new goods, the first of their kind produced in Canada, are being shown to the wholesale trade, and are pronounced quite a success.

There appears to be a very general feeling among the mills that an improvement in business will soon set in. Prices are, however, still rather unsatisfactory, but with a iendency to an advance, as condenced ty the decided advance in prices of wool, yarns and all other raw material.

Spsanisg of the prospects of the Manc',ester ship canal, a correspondent of the warchosseman axd Drafer says. Consigaments by the India and China boats sailing from Mancliester cuntinue to le very sat,
isfactory. The "Hispania" on her second trip. for Bumbay took 2,000 tons of local piece goods. On her first voyage she only conveyed 700 tons. The "China Mutual" liner "Kecmun" has sailed with 6,000 packages of piece goods, etc., and 500 tons of machinery. A service has been commenced between Manchester and Waterford, arrangements having been made by a committee of local provision traders with the Waterford Steamship Company. The line is likely to prove useful to zome of the wholesale drapery houses. A service from Montreal is to be commenced this month. A Canadian line is likely to prove useful to the many be jers from the Dominion who visit the Manchester and West Riding markets regularly. As to the canal itself, it is a matter for regret that after spending some $£ 15,000,00$ on the construction of the waterway the company should be left with sc little working capital.

The Dry Goods Economist, of New York, recently published a letter from Shepard, Norwell \& Co., of Boston, giving an account of a very successfal special sale which lasted a week and was devoted exclusively to Amerrcan goods. The sale occasioned a good deal of talk, and was financially quite a hit. Here is a bint for some enterprising Canadian retailer. It might surprise the majority of Canadians to find what a variety of goods of native manufacture could be gathered together if one had the Canadian manufacturers well represented. If the best, as well as the cheapest, of Canadian goods were displayed in one store, the consumer would find that many lines which were supposed to be made in England, France, Germany or some other foreign country, were the products of our own factories; and such a display would greatly impress the average purchaser. Such a show, if made at all, should be thoroughly representative, as to variety of home manufactures. With decorations of maple leaves, Canadian flags, etc., a great deal of interest could be centered in such a sale.

Reviewing the condition of the Irish woolen trade, the Irish Textile fournal says: "That medium to highpriced Irish cheviots have been taken up freely almost goes without saying ; in every respect, whether of texture, finish or design, and, as a matter of course, as regards durability, they are now generally acknowledged to be casily first ; even the best Scotch makes, so long considered the fo:emost in all these respects, have been ousted from their place, and now occupy only a secondary position. With the exercise of the same care and attention that have distinguished the efforts of the Irish manufacturers for some seasons past in the improvement of make and finish, and the production of designs possessing novelty and freshness of effect, there can be little doubt but that Irish cheviots may continue for long enough to hold the lead in public favor that they at present possess. A notable and satisfactory feature of the trade is the increasing demand for Irish saxonies, both in the narrow and six-quarter widths. The narrow widths are chiefly taken in the local tzade, but a fair proportion of the wide goods are included in the orders
from the English trade centres, where they are steadily making headway and gaining a sure place in the market. Saxonies range up to higher prices than do - heviots, and present a better field for the production of variety of qualities, besides affording more scope for a remunerative rate of profit. The selections here, too, are considerably in excess of those of last year at this season."

The sollowing facts concerning the textile applicauon of the aloc fibre are taken from a report forwarded from the Austrian Consulate at Bombay to the Austrian Ministry of Commerce. Although, no doubt, many of our readers are familiar with them already, this re-statement by an Austrian observer will not be without interest. It seems that Austria-Hungary as yet is almost unacquainted with this textile fibre, which has now for some years been exported from India in considerable quantities to England and Belgium. It is the fibre of the aloc (Agave Americana), originally an American plant, but now naturalized almost throughout India. It is used there for hedges, and since it can bear either a hot or a cold climate, it is diffused over alinost the whole country. The roots, and especially the leaves, of this aloe furnish a capital vegetable fibre, which is known under the name of Pita Feasul, or vegetable silk, and is employed in England and Beigium for the manufacture of ropes, cables and carpets. Europe's rapidly-increasing demand for cheap and good textule materials may open up in course of time a not unimportant place for this aloe fibre, which might compete with the dearer jute, and also with hemp. The aloe fibre is strong, white, and glossy, can be easily dyed, wtighs relatively little, and possesses remarkable power of resisting the inflvences of the weather, especially damp. The carpets made of it are characterized by their strength.

Wool sliver must be bleached quickly and in the cheapest way, usually (according to the old process) with sulphur. Before sulphuring, the wool is blued in a soap bath, for which purpose a machine is used similar to the washing machine employed for washing printed fabnes, with this difference-in place of having seven or eight bowls, it has only three. The first of these always contains boiling water; the other two the soap bath, unted with methyl hlue. The machine itself consists of four parts for the drawing through of the wool. Six slivers pass in each part ; in all 24 slivers, which run off from the bohbuns placed behind the machine. After passing through, the sliver is squeezed out well upon the machine and then run into yarn nets. It is then whzzed out in a suntable manner to completely remove the excess of flum. The bleaching is performed in the following manner: For 100 lbs . of sliver, take 5 liss. pota $h$ soap and from : to 2 drachms of methyl violet 0 B, accordmg to the c:xtent of the yellow shade in the wool. After running through this bath as described above, the shver is hung in the stove and exposed for 12 to 16 hours to the funmes from 3 lbs. of sulphur. The shver is then taken out of the chaniber and hung in the open air for three or four days, to free it from any sulphurous odor, and then, if necessary, is dried.

POTASH AND SODA FOR WASHING WOOLEN YARN AND CLOTH.

It bas been repeatedly pointed out, says a writer in the Dentsche Wollen-Setocrbe, that for washing wool and pieco goods the potash treatment, in many respects, is better for the wool fibre than soda, and that it is advisable to use potash either alone or in the form of soft soap for this purpose. Although the correctness of this assertion is still doubted by ma. $v$. it is a fact, extablished by numerous cx. periments, that the effe.. vi potashapon wool fibre differs in seweral important particulars from that of soda. This is easily explainsd, for although the two materials have one point in common. bergg both alkaline, and in their combination with carbonic acid serve as detergents, they are, in other respects, agents of different natures, and in their chemical reactions vary entirely from each other In England and the United States, where the use of potash is far more general than in Germany, it is said that wool washed with potash is much finer and silkier in touch than that washed with soda, and is not so liable to become yellow The experiments referred to confirmed the truth of these assertions. It was ascertained that samples of precisely the same grade of wool, treated with these two agents, showed that the one washed with soda was much harsher in "feel" than the one washed with potash. and. after drying, it assumed a yellowish tinge not visible in the sampie treated with potash. The chemical process which produces the yellow tinge upon the wool with soda is still not sufficiently well explained. It is possible, however, that the influence of the soda upon the covering of the wool tibre, which contains fairly large quantities of sulphur. produces the yellow tinge by liberating the latter. Potash has no such reaction. On the contrary, it has a bleaching effect. The harsher feel produced by the soda shows that it attacks the surface of this fibre more strongly than potash. Even the fact that the wool yoke impresnated ouly with potash salts, but never with soda or its salts, is sufficient to show that potash is more appropriate than soda, and this is generally aecepted where potash and the soft soap prepared therefrom have been employed. Complaints that wool became harsh and yellow were far less frequent formerly when wool was washed with urine, or the goods washed and fulled with earth and potash soap. This injury to the fabric is partly due to misuse of soda or unduly strong lyes. The use of these agents, however, is roquired io day by many of the grades of wool used in the textile industry, especially foreign wools. The necessity of employing larger quantitics of lye is the reason why soda is used as a detergent, for potash would be too costly. But whether it is wise to chiefly regard the cost is roubtful, to say the least The consideration oi price should be left entirely out of view when it is desired to obtain a white and soft wool. The manufacturer who produces white goods. cloths, flannels, etc., should never use any other detergent than either potash or potash sonp. Experience shows that soda, cuen under eatirely normal conditions, cxerts an injurious influence on the wool fibre, and this fact is now becoming well understood. As a proof of this, experiments to obtain a milder detergent have been made for a lonk time, and carbonate of ammonia, a milder form of soda, has been employed for wool washing for a number of years, this agent being preferreri to the ordinars socla. at leass where the preservation of the good qualities of the woml fibre is cestrec. From a financial point of view, however the situation is less favorable, bocause greater quantities of ammonia soda, as well as strorger lyes, are nocessary. Besides this, eases oceur when filthy and dirty wool is to be washed. where ammonia soda, even if usod in larger quantuties, is not as cffective as it shayd be and the bath must be strengitened with calcined with Vritwithotanding this, however, the use of ammonia sola is zdvisable for fairly clean wool, as this will give it a soff feel and clean appearance. similar to that washed with potash. Potash lye and solt smap are very excellent agents for the scoustag of yamn, and should be pre ierred to soia lye and hard soap. espocially when finer qualities of white yain are so be treated, and it is necressary in have them soft and supple A recipe for a washing process. whech was formetly used very successfully in England. consisted in treating the yam coming from the spinning frame with potash lye fil azs potash to
to lbs of water) at a temperature of $48^{\circ}$ R. [8. $8^{\circ}$ F.]. The yarn was then to le rinsed with warm water, and afterwatds paseed through a slishtly autd bath, of sulphuric acid (202s. to to liss. of water). in order to neutralize the excess of potash It is worthy of mentoon that in this process (Harris) a vacuum apparatus was used The yarn was placed in a cylinder, which was closed hermetically, a racuum beng generated by means of an air pump The seouring hquor was then introduced. Air was again admuttad in orider to increase the action of the lye upon the yarn The yarn was squeczed out after twenty minutes, and the liquor decanted. The escess of lye was, in the same manner, neutralized by a tratment with sulphurse acid Soft soap and a little ammonia liquor are the best Hetergents, for fine yarn Soft soap of medium atrength is also excellent for seouring the cloth before fulling. By a fitte attention. it will breome just as ciean as uhen treated with soda, but remains sinfter in feel There is far less danger that the colors will be attacked, or that the peces will become hard and board-like, as is the case with the least inattention where soda is used. Soft soap and fuller's earth were formerly the only agents used for scouring before inllitg they have been compellect, however, in nearly all mills, to gi:e way before soda. the use of whichs bas locome more extensive since red oil was first emplojed as a lubricant in the spmang mill The onls used before that time were nearly all of veretable ortgin, such as rape oil, olive oil. etc., and could not be expelled as cassly by soda as they could be by potash soap and fuller s carth on the other hand, red oil is easily saponi. fied with soda, and the use of this powerful, and at the same time cheap, alkalireadily sugnestod inself for scouring purposes. Of course. the operator whousestt must exercise great care If soda is used judi ciously 1 t is not so tangerous, the action of this alkali being counteracted by the cil contaned in the wool. But the difficulty is to calculate the quantuty of soda and the streugth of the lye to be employed in neutralizing the onl and greasy substances contained in the eloth. Even if the intelligent workman were to succeed in this undertaking, has not the manulacturer to deal with the ignorant and thoughtless belp? If the lye is too weak, the cloth is not cleansed. if too strong. the excess of alkali injures the wool fibre and makes it harsh and dry. Many fullers adhere to the ruie that it is better to take too much soda than too little, and do not take into consideration how much they injure both the appearance and the quality of the cloth The finnher hnows 100 well how often he is called upon to expend his art on hard, board-like pieces of goods, which. even though he may exert his best efforts, will never become soft and pliable, while yellow and dirty looking goods can never be bleached, no matter how much they maj be sulphured. All these disagrecable occurrences are avoided by using only soft soap for the washing of woolen eloths prior to fulling. that is, a soap containing the currect proportion of alkali. The increased cost of this detergent is more than compensated by the improved quality of the cloth it is, of coursi, a primary condition that the soap be free from adulteratiuns, such as starch, water rlass, eic. The manufacturer is sorely tempted 10 use adultgrants, and the fact that the suap is ofera marketed in this condation has contributed not a little to the general introluction of soda. The anmeniz soda tas recently breed emplognt for staff washing. but for this purpose nof soas is preferable

## INSOLVENCY LEGISLATION.

## Edifur Canadian Jot rnal or Fabrics:

Drar Sik.-Now that the Fremicr. Sir Misckanzie Bowell, has introduced his last year's mensure of insolvency legislation into the Senate for reconvilnration, and I hope for matured results, one may be pandonad tos roffornos; a dew sugecsions thereon In my las: communicatmen in your liarih number, I especially directed the attention of gar readers 3 i. the miyuitias clause promotad by the banking interest. and accepid by Sir Mackenzic Bowell, in the bill named, and $n$., is betiore the Seaxte.

1 give as my reatu for referming you to this particular ini.juitous clause the glang injuctivort will further he against the interests of all traders The lwhins intrest have already an Act (the Bank Act).
which protects their dealings with clients, and enables them by means of continuous liens to cover Buctuating advances and discounts, these liens often covering assumed values of stock, machinery and real estate, far above the actual advances made by the bank to the client. Thus, when the financial stress comes upon the trader, the banks are enabled by this power given to them to close down and swipe away all available realizable assets, and leave the general trader and creditor unable to realize a single cent, all having been covered by the banker's sunning lien. What will be the further result to the banking interest if the clause in the bill now before the Senate becomes law?

The banks now can only claim the deficiency that may be left of bills under discount, on the said bills not being paid at maturity. and considered unrealizable-and under the Bankers' Act claimable under the terms of the running lica executed by the debtor before his failure. If the clause in the new bill becomes law, they will be creditors for the full amount of bills under discount and unmatured at the time of failure of the debtor.

So with the bankers' lien and claiming to rank as creditors for all bills under discount, as just noticed, the rich banking interests will carry off all available assets in cvery insolvent estate This $i^{s}$ class legislation with a vengeance. It is worse than the beer interest in England, when they, by a combination of the English) Church clergy, brewers and stock exchange speculators, defeated a Liberal ministry who proposed a 25 cent.duty upon every barrel of beer brewed by the rich syndicates who controlled the vast brewing establishments in England.

We have a law against combination of syndicates, championed by Comptroller Wallace. I wonder if it will apply to the banking interest when they get this new clause into operation.

Within the last month there has been a case in point, whichillustrates the baneful effect of the Baok act and its lien provision

The Weston Woolen Manufacturing Co, Western Ontario have had to assign for the benefit of the creditors Ah' this is veritable sa reasm, since the Canada Permanent Investment Company and the Union Bank will clear the whole of the available assets in this insolvent company. The statement read at the creditors' meeting was partly as here stated:Canala Permanent Loan and Savings Co., ist mort-


This is under the continujus lien of the Eank. Aet for $\$ 34,25828$

Theonlyavailable asset toenable the trade creditors toget anything out of this estate would be the $\$ 15.259$. but this is covered by the runaing lien held and I suppose segularly renewal by the Union Bank This particular lien was the cause of the disraption of the company. The directors called upon the managing director tosend in his resignation, which ithe Union Bank resisted, so hastened the collapse.

Who has any pity for the poor trade creditors who will be left
without any asset to belp to repay them a part of their claims? in view of this, nobody. 1 guess, not even the effeminate Senate, will consent to give ancther strong power to the banking interest, which will still further enable them 10 grab all of the realizabl: assets of every insolvent estate, and ultimately be able at all times to dictate any terms to the whole commercial interest of the Dominion. Are our Boards of Trade under the agis of the growing power of the banking interest' Let them speak and act, and stop this further attempt of the rich millionaire banking institutions to thrive upon the misfortunes of the rest of the commercial interest within the Lominion.

I would recommend our legislators to study the Bankruptcy Sct now in existence in England: then they will see how, by that Act, the poor unfortunate trader is protected and dishonest ones punished, and no unduc preferential Act such as our Bankers' Act, and the clause part of the proposed insolvency law now before the Dominion Parliament I am. respectfully.

Woollen Manuencturer.
Montreal, May 9th, 1895.

## WORTH'S CAREER.



Charles Frederick Worth, the renowned dressmaker, died on Sunday, March to, at his house on the Champs Elystes. He was born in 1825 at Bourne, Lincolashire. At the age of thirteen he was apprenticed to Swan \& Edgar, from where, at theend of his seven years' apprenticeship, he went to Paris and obtained a situation in Gagelin's wholesale silk house. There he remained twelve years. Refused a share in the business, al. though he had extended it by making up garments instead of merely selling the materials, he set up for himself in the Rue Je la Paix, where he began by ernploying fifty hends, but ulit. mately employed $x, 200$.

Princess Matternich, the Austrian ambassador's wife, was one of Worth's earliest customers, and recommended him to the Empress Eugenic, after which all fashionable Paris thronged to him. During the siege of baris he turned his premises into a military hospital. The supremacy of the French capital as the seat of fashion seemed for a time imperilled: but though France had no longer a Court, Mir. Worth continued to cater to royal families abroad, as well as for the rich Amcrican and otber visitors. Though he had some years ago turned over the business to bis two sons, MM. John and Gaston Worth, naturalized Frenchmen, he was to the last a constant frequenter of the establishment. He did not mix much with the English colony, but was a liberal contributor to French charities In his Champs Flysies house and his villa at Suresnes, just beyond the Bois de Boulogne, he had collected many artistic treasures and curiosities.

We talk in these days of environment Mr Worth was the creature of his enviromment as much as he was its master With. out the Third Empire there would have been no Worth, 25 we have learned to know him Circamstances gave him opportunity, and he scized it: and taving seizelit, he held it with the tenacity of his race. He was at once an artist and a business man. The combination is rare. And he came upon the scenc at the moment that such a man was wanted. The third and last Napolcon aimed to make the Court of France the most brilliant in the world. His Empress found in Mrr. Worth the brains and experience necessary to the success of the geacral scheme. Mr. Worth dressed the Empress, and the others copied. It happened, of course, that those who would follow the Court fashions went to the originator thercof for their cestumes, and he graciously supplied them-at a price which was satisiactory to himself That Mr. Worth was a busincess man is shown by the fact that he registered his designs, and made suel arrangements with the manufacturers of the materials the used as enabled him io sccure a clear season's start ahead of any pos. sibie competitor. To dress like the Empress and her Court was
the ambition of all rich Frenchwomen, and to do so quickly was impossible without the assistance of Mr Wurth. Is it wonderful that he beame rich and famous?

The above very brief outline of Mr. Wiurth's business career is sufficient to show that the conditions which enabled him to achieve the position he eventually occupled do not exist in this country. and it is improbable that they will ever recur even in lirance it is impossible to conceive the idea of fashions being set by tho wife of a Republican President, who is elected but for a few short years There is something incongruous in the notion. Mr Worth created his reputation when circumstances were vastly different to those which now exist. He retained it because it is in the manner of reputations to live long after the chances which produced them have passed into the region of things forgoten rhe business in the Rue do ia Paix will probably continue to thrive until tho days come when the nams of Mr Worth will be but a memory. when men will even speculate as to whether or not such a person ever lived in the flesh, or whether he was a mere namo-a mere abstrac. tion, a sort of solar myth.

Fashions nowadays come not as they did. How do they come? Really we ought to know, but we don't. That is to say, we can offer no explanation which would satisfy a theorist in search of abstract truth. In the days of the Empire one could follow the rise of a fashon. First it was created in the fertile brain of the Lincolnshure man who had the cntrér to the boudoir of the Empress Eugenic. Then it was adopted by the inner circle of the French Court, and shortly afterwards mitated by the mob The idea of the great Worth was as a pebble thrown into a pond It iell, and then by ever-widening circles it influenced in a series of ripples the whole adjoining surface. The pebble has fallen for the last time Othermen may arise, as great in artistic and commercial genius as was Charles Worth, but their influence can never be so great. Fashions nowadays seem to te born more of a desire for change than of a desire to imitate. feople are no longer satisfied to follow the lead of an Empress. Each season something new must be produced. and thousands of designers rack their brains to find out what will suit the fickle public.-Crirand's Clonk Fournal

## NOTES ON LOOMS AND WEAVING.

The reed must strike the cloth at right angles. if at a more obtuse or acute angle the endency of the stroke would be to depress or raise the cloth, thus losing part of the effective force of the blow.

In the case of the fast reed 100 m , the instantancous stopping of the parts when the shuttle is trapped (b)y the protector striking against the (rog) causes great wear and tear It also for this reason entails a slower speed than that of the loose reel loom by about $3^{\circ}$ revolutions per minute.

The shot or puck of welt put through shed is at a distance of about $2 \frac{1}{2}$ inches from the fell of the cloth at the side on which the shuttle is.

The picking tappet ends in a point called a nel. the neb is removable when necessary. through wear or any other cause

The distance from the centre of the shaft to the apex of the neb in a 40 in. or $4^{2}$ in. reed space loom is about $C$ in.

The siroke of the picking tappet causes the picking bowl to move through an arc equal to about iz of a circle.

A longer neb is used for wider looms-say about is inch for every so inches uider seed space, as a stronger blow is required.

The overpick is sumetimes called the Blachburn pick
At the bottom of the shuttle box is the " $\mathrm{A}_{y}$ glate": the back of the box is inclined at an angle of about su, thus practically. making the box a dovetailed recess for the steadier retention of the shuttie, the shumte is bevelled to correspend

The shattle race is not perfectly level. but slopes downwards towards the centre This point is about is inch lower than at the shutile boxes in looms os medium width, and 't inch in the wider looms.

The shutie is made of box, corncl or persimmon wood, with pointed iron tips The length is about 13 inches and depth about

8 Inch. It should be perfecily amooth and true, otherwise it will frequently fly out of or be trapped in the shed.

The shutile race is made of hard wood laid on a beam, and, in somo loons, is also rather wider at tho middle phan at the ends.

The picking bowl should always be in contact iwith the tappets, a spiral spriug ls employed for the purpose if this wero not the case the pick would be jerky.

The pick should be smooth and notjerky, otherwise the shuthe will fly out of or ive trapped in the shed

In drawing the ends through tho healds, the one through the more forward heald is generally to the lett of the one through the moro backward heald-that 2 a , the first thread through the front and second liealds are to the left of the first threads through the third and tourth healds respectively.

With the beam in position and tho loom in order, the movementa of the different parts in weaving are-(1) the separation of the warp into two halves-one up and the other down. (2) the passing of the shutile from one side of the loom to the other and leaving a weft thread over the bottom and under the top halves of the warp. (3) the beating up of the weft thread (so put in) to the cloth. and (4) the drawing forward of the cloth by the taking-up roller.

The healds should only rise sufficiently to leave a space between the two halves of the ihreads where the shuttle passes through, just barely as large as the depth of the shuttle.

The lower half of the threads should not be too low or they get rubbed and fraje l by tho to and fro motion of the slay. This is called " botloming."

Nor thould the threads be too high, or the shuttie, while pass. ing from oue box to another, will either stick in the shed or fly out of the loom. The line formed by the warp when the healds are level is called "the line of warp." It should bs below a straighe line drawn from tho back rest to the iemples. It should be as low as possible without causing bolloming.-Sndian Textilc Fowrmal.

## THE ORIGIN OF HANDKERCHIEFS

We are told that "an interesting historical study on the pockel-handkerchief has just appeared in a German magazine. It appears that manksad is indebied to Italy for the introduction of that mojest but indisp:nsable accessory to civilization. Acconding 10 the writer, the use of the pocket-hanikerchief was unknown to sweiety until the first half of the sisteenth century. About the yenr 1540 an unknown Venctian lady first conceived the bappy jdei of carrying a 'fazzoletto.' and it was not long before her example was widely followed throughout lealy. The handterehief then crossed the Alps into France, where its use was immediately sdopted by the lords and ladies of Ifenry Il 's Coure" Wo are not prepared to say how early the pocket-hand. kerchiof was known and usad in Eumpe, and should consider it sonething like a fruitless task to enquire. seeing that it would resolve itself into an enq̧uiry when the name by which we now know it was given wan article which must have been more or less in use from time immemarial, that is, if Dr John-
 to wipe the face or cover the neck" is to be accepled. As for tho name, we find io the wardrobe accounts of King Ed. wanl IV. IW" entries. ono of payment "To Alice Shapster for making and wasshing of xaiij shertes and xiiij stomachers, $v$ dosen han.leavercheffes and xij combe covercheffes." icc, and another relating is "alvius hanicoverchieffes of Ifulland." This uasin a \& So, sinty years before the unknoun Venetian lady's time It may alsa tre remarkat that " combe coverchiefs" for weanng on the herd. and " breast ewverchiefs" far wearing over the shirt are disuriminated in theso aicounta from the hend " hamlooverchicf."
 chief beisuse :he "handietsbici" is $n: x$ " coverchinf" at all, we can only relor back asain to Mr Johasmis Jefinition sod to the cumm vi a oloquialism of " neckhandkerinief." which shows that such phrawes must not be interperad too diterally Wo may add as an item of sime interest thet Mrs Shapster was paid ijd. oach for making the coverchiels, and xijd, each for making
and washing the shirts, which does not seem over-payment: but as workmen were paid at from $4 d .1061$. per day, and the clerk of the wardrobe only got one shilling, some very considerable difference in the value of money must bs allowed for.Harehonseman ami Drafer.

## REMINISCENCES OF JACQUARD.

Tho following extracts are taken from the "Life of Jacquard," by Sarah K. Bolton:

After seven years-a long time to patiently develop an dieaJacquard had produced a loom which would decrease ihe number of workmen at each machine by one person. In gratitude for this discovery the went to the image of the Virgin, which stood on a high hill, and for ninedays ascended daily the steps of the sacred place. Then lie returned to his work, and scating himself before a Vaucanson loom, which contained the germ of his own, he consecrated himself anew to the perfecting of his invention. It remaine $i$ for jacquard to make the Vaucanson loom of the utmost practical use to Lyons and to tho world. After a time he was not only able to dispense with one workman at each loom. but he made machinery do the work of three men and two women at each frame. When brought before Bonaparte and Carnot, the Minister of the Interior, the latter asked: "Is it you, then, who pretend to do a thing which is impossible for man-to rake a knot upon a tight thread ?" Jacquard answered the brusque inquiry by setting up a machine and letting the incredulous minister see for himself. The emperor made Jacquard welco ne to the Conservatoire des Arts et Meticrs, where he could stu y books and machines to his heart's content, and gave him a pension. Sonn, however, the tide of praise turned. Whole families found themselves forced into the stroet, for lack of work, as the looms were doing what their hands had done. Bands of unemployed men were shouting. "Behold the traitor!" The authorities seemed unable to quell the storm, and by their orders the new loom was broken to pieces on the public square. "The iron," says Jacquard. "was sold as old iron: the wood. for fuel." Soon Switzerland, Germany, Italy and America were using the Jacquard looms, la rgely increasing the manufacture and sale of silk, and therefore the number of laborers. The poor men of Lyons awoke to the sad fact that by ureaking up Jacquard's machines they had put the work of silk weaving into otber hands all over the world, and idleness was proving their ruin. The inventor refused to take out 2 patent for himself, nor would he accept any offers made him by foreigners, because he thought all his services belongei to France. The struggling, self-sacrificing man, who might have been immensely rich as well as famous, was an untold blessing to labor and to the world.

## WORKERS AND STRIPPERS IN WOOL CARDING.

Does it ever occur to those who are eagaged in the business of wool carding how expressive and appropriate are the names by which the carding engine and its various parts are known? The name of each is practically a brief description of the work which it is required to perform in preparing the stock for the subsequent processes of manufacture.

Thus. the office of the card itself is to card, or comb, the stock in preparing it for the spinner's hands. The raw material is weighed in the scale, thus giving evenness to the feed. and the broad apion carries it along to the feed roll, which supplies the stuck to the licker-in, whence it is conveyed to the tumbler, which practically tumbles it upon the quickly revolving main cylinder.

The latter is appropriately known in the olde: manufacturing countries as the swift, a name which describes both its comparative speed and the character of the work which it performs. The cylinder carries the stock rapidly forward to the successive workers, returning such of it as is insufficiently worted again and again. until it is brooght iv as rino a state of smoothness and uniformity as the condition of the card and the time allotied to the operation permits.

Then with the aid of the fancy, the stock is delivered to the doffer, which strips the carded material from the fancy. The comb then removes it from the doter, where the drawing rolls advance it
still further, and it is carried perhaps on a double set of carriers to the feed of the next card, where the same processes are repented until the finisher card is reached, where the rings come into play and divide the web into strands, which are literally wiped from the rings by the wipe rolls, to be condensed into round roving as they pass through the rolls of the condenser.

In this practical and descriptive nomenclature of the wool card, it will be noticed that there is only one exception to the general rule, and that is the case of the fancy. Tradition explains this term as having originated in the very earliest days of wool carding machinery. The story is, that one of the first expertmenters in this field met with difficulty in stripping the stock from the cylinder. Some one suggested that he "fancied" that if the wool was brushed upon the swift it would be nore readily delivered to the doffer. A successful result following the adoption of this suggestion 30 gratified the inventor that he declared his assistant's fancy had made the machine perfect, and hence it came about that the revolving brush which embodies this original idea has been known as the fancy. Although this interesting narrative is not positively authenticated, it may be accepted without doing violence to the imagination, as a possible if not probable explanation of this glaring exception to the general rule governing the terminology of the science of wool carding. The simple term "brush" would certainly have been more appropriate.

There is, in fact, a decided advantage to the learner and those incidentally interested in this or any other mechanical subject to find the terms suggestive of the purpose for which the parts are employed. In this simple matter of the fancy the writer is fully convinced that had it been called just what it is, a trush, many a plodding carder who in years past has been obliged so work out his knowledge of the business bit by bit, would have much sooner realized its true nature and function, and as a result he would not have fallen into what has been a very common error of treating it as if it were meant to card the same as the other clothed surfaces of the machine.

The workers and strippers, to which attention is specially called at present, could not be more simply or aptly named. The workers are intended to work the fibres froe from bunches, knots and snarls, to secure evenness, straightness, and a parallel position of the individual fibres. In order to accomplish this result, there are a number of them, five, six, or even more on each card, or from seventeen to twenty to the set. Corresponding to each of these is a stripper, uhich returns the stock to the swift, which will return it to the same or some other worker to be further worked, or to the doffer to be released from further carding as far as that one machine is concerned. Tho point at which it is caught up from the swift depends largely upon the condition to which the fibres have been reduced by the previous working.

For one who is really interested in carding, this process of working down the stock by the action of the workers and strippers is an object lesson well worth studying, as it will emphasize the necessity not oaly of having these important adjuncts of the card in as nearly perfect condition as possible, but of readering their work easier and more efficient, by 2 careful preparation of the stock before it comes to the card room.

The best stock with whick to show the action of the workers is some colored mixture, which contains a small percentage of wool of a pronounced difference in color from the bulk of the batch, and the more difficult this smaller portion is to card, the more valuable will be the lesson taught, though it will prove trying both to the card and the carder. Looking on the first worker of a first breaker, carding such stoek as described above, the distinct color of the smaller percentage will be observed in bunches. By watching any one of these it will be seen that it is caught up several times in succession, growing smaller each time. until it disappears entirely.

To the trained eye the first appearance of one of the bunches on this first worker will indicate whether it will card out easily or not. If is is in condition to do so, it will not only be well opened up by this first contact, but if the eye will at the same time take in the next two or three workers, it will be seen that the bunch is not only opened out, but that a portion of it has already passed on to
the other workers, and could we take in the whole machine it would bo seen on all parts of the card some having even already been incorporated in the web on the doffer, although before reach. ing that point it is a bunch no longer and has nearly lost its itentity in the mass of the misture

Very differen! is the appearance of stock that from inherent causes in the wool itself, or from previous careless handling, is in such a condition as to resist the efforts of the card to card and mix it till it reaches the required evenness for the spinning and weaving of fine goods. Then the bunches delivered to the swift by the tumbler are liable to come up in any of the workers. Some are released by the swift at the doffer. after having been brushed up by the fancy, and thus they are carried on to the next card unworked and uncarded. It is nily the largest of these bunches, or more properiy speaking, knots, that are caught up by the first worker: yet not all of these are so disposed of. for, as in a wrestling match. it all depends upon which part has the best hold whether it is the swift, or this or that worker, or the doffer, which setains what it has caught. But if such a bunch or knot is once held by a worker, it will be seen going roun 1 and roun 1 it many times more than those wh ch are more easily separated. and though is reduction in size is wery slow and never complete, it is gradually, by the tearing out of some fibres and the wearing away of others, brought into such a condition as to slip with the other stock through all the cards and show in every subsequent process and even in the finished goods themselves. It is not at all unlikely that this defect will be everywhere attributed to the inefficiency of the carder Whenever such results ensue, or when there is a doubt or dispute as to the condition of the stork, there is no better point at which to take observations than at the first breaker workers, and our advice to both carder and manager is to keep a sharp look out for the defects in the work at this stage of the carding operation

## THE DYEING OF CARPET YARNS.

Carpets differ from other textile fabrics in one particular, and that is, they are never dyed in the finished or woven condition, but the threads of which they are made are always dyed in the condition of yarn. It is in this form that we shall treat of them

Carpet yarns may be dyed either in simple tubs or vats, the hanks of yarn being hung over wooden sticks resting on the sides of the tub or vat, and turned over by hand. It is best, however. to dye them in suitable machines, of which there are many good ones in the market, and which it is not necessary to particularize in detail. These machines save a good deal of labor, and are more convenient to the men.

The colors or shades which are dyed on carpets should be such as to resist a considerable amount of wear and tear it is not absolutely essential that they should be perfectly fast to light (although if they are, so much the better), because they are never expesed to any strong light. They need not be fast to acids, because they seldom or never come in contact with them. The one teature they ouitht to possess in a marked degree is that of fastness to alkalies, because they invariably come into contact with much road dirt, taken in on the shoes of persons walking over the carpets, and road dirt invariably possesses alkaline properties, although its degree of alkalinity may wary much in diferent localities, according to the material employed in the formation of the roads In the recipes which are given below this feature will be borne in mind

At Eresent woolen carpet yarns only will be dealt with Carpet yarns made from jute and other fibres will be treated of at some future time The recipes are calculated for 100 libs of material

1. Palc Xello:o - Prepare a dycbath with !' Ib. milling yellow $O$ and ro lbs. bisulphate of soda, working at the boil to shade By employing anthracene yellow $C$ a similar shacie is obtained. In either case she yellow is fairly fast, and possesses satisfactory properties.

ㅇ. Bright Yelloic. -l:se 2 lbs. fast yellow N. to lbs Glauber's salt, and a lbs sulphuric acid. working at the boil
3. Deff Yello:o -Use 3 lbs anthracene yellow 13N and 10 lbs bisulphate of soda After dycing for 's hour, the fastness of the
color is increased by adding 3 lbs fluoride of chrome and treating 1/2 hour longer
2. Defp jeflow - A fine shade of yellow which is fairly fast is dyed with 'i lb. diamine gold and 5 lbs acetic neid.
; Guldre Yellere.... 1 very fino fast shade of old gold is obtained by dyeing for $t$ hour at the boil in a bath containing 2 lbs. Titan yellow P . Ic libs common salt, and: th acetic acid, then lifting, adding to the bath 2 lbs. fluoride of chrome, reentering the yarns, and working ! 2 hour longer This shade is gute fast to lisht, alkalies and acids, while la is easy to dye.

6 Orangr-A bright shade is dyed with ith orange GG, to lbs Glauber's sall and 2 lbs sulphuric acid.
7. Kedidsh Orange. - Use 3 lbs orange ENT. Io lbs. Glauber's salt, and 2 lbs. sulphuric acid.
\& Olize Ycllo:o -A fine and bright yellow, of a slightly olive shade, is obtaised from $1 / \mathrm{lb}$ anthracene yellow C , 1 Ib . naphthol green 13. I! ozs acid brown R, I Ib. copperas, and 5 lbs. acetic acid
 thracene yellow C. 1 !iz ozs naphthol green B. and 5 lbs acetic acid.

In Durk Strare - Mordant with i!s lbs. bichromate of potash and $1 / 2$ ib sulphuric acid, working at the boil for $1!/ 2$ hours Then. after sinsing. dye in a bath of a lb gambine $y \cdot$

It Dark Olire Yellore - Use 1 ls lbs. anthracene yellow C, 4.2 oxs naphthol green 13, 3 ozs, acid brown R, itb copperas, and 5 lbs acetic acid, working at the boil fors a hour.
12. Dark Oraugr - Dye with 6 ors. tropeoline OO. 3 ozs. azo rubine A, 1 oz, sterosine grey, and so lbs bisulphate of soda.
i.s Terraciotha Oring. -A good shade is dyed with 1 lb . acid brawn R, 3 ciss. Titan red 1). 5 ozs. naphtholgreen 13, ilb. sulphate of iron, and 5 liss acetic acid, working at the boil for a hour.
14. Borifcitex Red.--Make a dyebath with 2 lbs. clarel red 13. to lbs Glauber's salt, and 2 lbs. sulphuric acid.
1.5 Deep Bordermx Red.-Mordant by boiling for $1 / 1 /$ hours with 3 lbs bichromate of potash and 2 lbs. tartar. Then dye in a bath with to lbs gambine K and 2 lbs . claret red l .

16 Bright Boritcumx Rod - A fine shade can be dyed from a bath containing 3 ths, azo rubine $A$ and to lbs. bisulphate of soda, or 3 lis. diamine fas: red $F$ and 5 lbs acetic ach.

17 Brighs Bordeaux Red -Make the dyelbath with 3 lbs. Titan red cilb, so ibs salt, and i ibs. acetic acid, working at the boil to shade

18 Bordaux Red --Dye in a bath containing 2 lbs. Titan red 6 B. 10 oz anthracene yellow C. i ib. naphthol green B, $: \mathrm{lb}$. sulphase of iron, and 5 lbs acetate of ammonia.
19. Dark Minex日. -- Make the dyebath with 2 lbs. Titan red 613, 0 ozs Tuan yellow R. 7 ozs. acid bluc $\{$ S, and 5 lbs acetate of ammonin.

90 Afurave - L'se $=\mathrm{lb}$ s diamine fast red $\mathrm{F}, \mathrm{G}$ ors. anthracene yellow $C$. Suzs actid blue ${ }_{4} S$ and 5 lbs acctic acid.
pi Cromsen. -13 ors diamine violet i. $^{13}$ it $_{2}$ tbs wool searlet oooo, and 5 lbs. acetic acid.

9: c'rumsun.-Make a dyebath with ity libs. diamino fast red F. ' $_{2} \mathrm{lb}$ anthracene yellow C . 2 ozs solid blue R . and 5 lbs. acetic acid, working at the hoil to shade.-Textile Morcary.

## HILLING FAST RED ON WOOL.

The production on wool of a fast red that will stand a strong milling is a very important matter to the wool dyer. There are several hay: is which this may be done, and these will be indicated below The firat place must be given to an alizarine red. This may be produced by first mordanting the wool with so per cent. alum, + per cent zartar, and 2 per cent oxalic acid, by boiling for two bours The dyeing is conducted in a fresh bath, which contains 15 :0 so per cent of alizarino paste (the shatic of the red will depend upen whether a blece shade. giving a crimson, or a yellow shade, giving a scarlet alizarine, be usedl). 3 per cent of acelate of llme. $1^{2}$ per cent. soap, and ${ }^{2}$ z per cent. zannic acid. The dyeing is conducted in the now well-known mannes should a darker red
be required, then, after the dyeing there may be added to the dyebat: is to $1 / 1 / 2$ per cent. of bichromate of potash to sadden the color.

Turning to the azo colors, cloth red, scarlet and benzopurpurine may be used. The first-named gives the best results ; the different brands give-with either bichromate of potash or chrome Auoride mordant-fine, tiery and fast reds. The mode of application may bs varled. The wool may be first mordanted, which is most applicable when bichrome is used as the mordant; the addition of a little acetic acid to the dye bath is desirablo. A good plan is to first dye in the usual way, then to add 2 to 3 per cent. of fluoride of chrome to the bath, and continue the dyeing for one hour longer: this causes the formation of a chrome color lake, and so fixes the dyestuff on tha fibre. In this way may be used cloth red, G, B and 3B, the latter giving a very blue-toned red cloth scar-let-Emin red. Diamine fast red $F$ dyed on wool in this way also gives very fine reds, which, besi_... being fast to milling, are fairly fast to light. For the purpose of modifying the tone of the red so obtained, it may be mentioned that anthracene yellow C, diamond yellow and diamond flavin can also be dyed on wool in this way, giving very fast colors. Some of the azo scarlets, wool scarlet 0 . OO, patent acid and milling scarlet, and Atlas scarlet, give very fast reds on wool, which are but slightly less resistant to milling than the mordant dyes named above. Benzopurpurine and some other of this class of dyes also gives milling fast reds on wool, but have the disadvantage of being loose to acids.

## A burly beater.

Alas! it had of course to be!
lor weeks I had not left my room, When one fell day there came on me An awful doom.

A burly rough, who drank and swore.
Without a word-I could not shout -
Allacked me brutally, and tore
My nails right out.
Then, dragging me out to the air.-
No well conducted conscience pricked him-
He mercilessly beat me there.
His helpless vittim.
With cruel zest he beat me well.
He beat me till in parts I grew-
I shudder as the tale I tell-
All black and blue.
But what on earth was he about,
I could not guess, do what I would:
But when at length he cleaned me out
I understood.
Yet do not shed a tear, because
You've heard my story told in metre.
For I'm a carpet, and he was
A carpet beater.
-Lomdon Punch.

## PROMPT PEOPLE.

Don't live a single bour of your life without doing exactly what is to be done in it, and going straight through it from beginning to end. Work, play, study-whatever it is, take hold at once, and finish it up squarely: then to the next thing, without letting any moments drop between. It is wonderful to see how many hours these prompt people contrive to make of a day: it is as if they picked up the moments which the dawders lost. And. if ever you find yourself where you have so many things pressiy ? . ${ }_{2}$,on you that you bardly know where to begin, let me tell you a secret: Take hold of the very first one that comes to hand, and you will find the rest all fall into file, and follow after.

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| :---: | :---: | :---: |
| No. 326. | Warp: | Weft: |
| [1000 | 46 Black. | 30 Black. |
| $0 \times 5$ | 4 Bottle Green. | 2 Bottle Green. |
| $0 \times 8$ | 8 Black. | 6 Black. |
|  | ${ }^{4}$ Bottle Green. | 2 Bottle Green. |
| $\mathrm{CHO}_{5}$ | 40 Dark Brick Red. | 3 Dark Brick Red |
| Bren | -_ Dark Brick Red. | - |
| Design. | 112 cads. | 72 picks. |
| Warp and weft 350 yards per ounce. |  | 4600 ends. |
|  |  | 42 picks per inch. 6 ends in a reed |
|  |  | 72 inches wide in the loom. |
|  |  | 56 inches wide when finished. Melton finish. |

woolme suiting.

| No. 649. signg |  | $2{ }^{2}$ |
| :---: | :---: | :---: |
| Design. |  |  |
|  | Warp:- | 2 |
| 5 ends | Black, 20 skeins. | 2 |
| 1 end | Slate, " |  |
| $1{ }^{1}$ | Black " | 48 |
| $1{ }^{1}$ | Slate, |  |
| 5 eads | Black, |  |
| 1 end | Twist, 12 skeins. |  |
| 3 ends | Black, 20 skeins. |  |
| 1 end | Slate, "1 |  |
| 3 cads | Black, " | ftimes. |
| 1 end | Slate. |  |
| $1{ }^{1}$ | Black, |  |
| $1{ }^{1}$ | Slate, " |  |
| - |  |  |
| 48 ends in pattern. |  |  |

Weft.
2 picks Twist, 12 skeins.


5 ends Black, 20 skeins.

- Black,

48 picks per ínch.
1 " Slate, "
5 eads Black,

3 ends Black, 20 skeins.
1 end Slate, " $\quad 7$ 3 cads Black, ". $\quad$ times.
end Slate.
"Black. "
48 ends in pattern.

No. 650.

mantle czoth.
f, 340 ends in warp ; 21 ends per inch; 7 's reed, 3 ends in a reed: 22 picks per inch: 64 inches wide in 100 m ; 56 inches wide when finished. Weight, II 1 228.

## Warp and weft 14 skeins.

## HISTORY OF THE TABLE-CLOTH.

The table-cloth seems to be no exception to the truth of the old saying, that "there is nothing new under the sun," for a correspondent of a contemporary states that at a very early period it was cus. tomary to spread a cloth upon tables set aside for refreshments, a practice now prevalent inall nations where civilization bas polished the manners of tho people. According to Monfaucon, the use of the table-cloth by the Romans began in the time of the early emperors. They were made of fine linen, generally richly oroamented with stripes of gold and purple, and frequently paiated or worked with gold. Destnay tells us that the use of table linen was very rare in England about the r3th century, but another authority informs us that the Anglo-Saxons dined with a clean cloth which they cailed rodsceat. A cloth was laid even for a poor man. Du Cauge reiates a singular feudal privilege, that of the lord being entitled to the table-cloth towel, etc., of the bouse where he dined. From the same source we learn that a father, giving advico to his son, particularly recommends him, as ono means of success in life, to have his table covered with a clean cloth. and there is a complaint made against the monks for putting a dirty cloth before their visitors. The table-cloths made for the use of the nobility and \& ntry were of great value. One would cost as much as $£ 18$, a considerable sum of money in those days. The origin of damask table-cloths is also very ancient. La Broquiere thus described some used abroad: "They are," he says, " four feet in diameter, and round, having strings attached to them, so that thoy may be drawn up like a purse. When they are used they are spread out, and when the meal is over they are drawn up, so that all which remalns, even to a crumb, is preserved."

## TO DETEREINE THE WETGHTS OF COTTON AND WOOL :N TISSUES.

The scientific department in the French custom house adopts the following method for determiluing the respective weights of cotton and wool tissues : Thrcopicces of the material to be anailyzed are cut, and the weight of each, say 2 grams, is made to correspond. These pieces are marked respectively $A, B$ and $C$. The first is set aside, and B and C aro submitted for fifteen minutes to a boiling solution of hydrochloric acid. 3 per cent., so as to removo the dyo and dressing; they are then repeatedly washed, and are marked $\mathbf{B}^{\prime}$ and $C^{\prime}$. The piece, $B^{\prime}$, is then set apart, and the sample, $C^{\prime}$, is submerged for is minutes in a boiling solution of caustic soda (density 2020). The wool dissolves, leaving the cotton threads, which are then denominated $C$. The fragments, $A, B$ and $C$ are placed in a heated pan, $100^{\circ}$, and left there for two hours They are then taken out, and are left for 24 hours in the open sir: the pan selected must be a dry one. At the end of this time, $A, B, C=$ are respectively weighed. $\mathrm{A}-\mathrm{B}$ represents the weight of the dressing and of the dye. C" represents the weight of the cotton, but the cotton being slightly attached by the solution of soda, experience has found that it is desirable to add 5 per cent. to the weight found. A similar method is applied to mixtures of wool and cotton, but in this case, as tho dressing generally consists of fatty matter, the threads are first of all boiled for 10 or 15 minutes in a hot solution of carbonate of soda to $2^{\circ} \mathrm{B}$. They are then placed for a quarter of an hour in an acid bath at $3^{\circ}$, and builed. Finally, by way of precaution, and in order to take away the traces of greasy acids that might result from the decomposition by hydrochloric acid of a small quantity of soap formed during the first operation, it is well to put the threads for 15 minutes into the warm solution of carbonate chalk to $2^{\circ} \mathrm{B}$.

## MOTRS.

A correspondent who desires to know how to get rid of moths in carpets, and how to stay rid of them, brings up a puzzling question. Light is really the best preventive. A rram well lighted and carefully swept once in two or three weeks will seldom be infested with moths. They are creatures of darkness, and lay their eggs in dark corners and around the edges of carpets or uphol. stered furnituro. One way to get rid of them when once established is to lay a well-damped cloth on the carpet, and then run a hot fatiron over it. The hot steam destroys the moths. Run the iron slowly and ligltily over, so as not to press down the pile of the carpet. The eggs are killed by heat, and it is said that liquid ammonia, which does not injure the fabrics, will also kill the eggs. The eggs are hatched in Canada in April or May, and the damage is done by the grub before it develops into a moth. To keep the -moths away and thus prevent them laying eggs for next year, tar payer or tar balls, camphor or cedar, can be recommended, as the moth does not like the smell of any of these substances. Preven. tion is better than cure, and it is easier to keep the moths out by the use of the above preventives than to desiroy the eggs after they are once laid. Keep your houses light an 1 clean, for a moth loves dust as well as darkness.

## DON'T BE SPITEFUL.

A business man has no right to go around with war-paint on his face, belligerency in his manner, ill-feeling in his heart and threats on his tongue. It is a mean sort of man, anyhow, who can spend the greater part of his time concocting schemes to "got square " with somebody or anybody, and a foolish sort of man who selects the commercial arena as the seeno of his spiteful operations. And so we say to certain over-wrought, hot-headed, short-sighted buyers who are or have been in our midst recently. Don't be spitefull

The wholesale dry goods business, of whleh S. Carsley, Mon. treal, is the head. will henceforth be known as Carsloy. Sons \& Co., the partners being Samuel Carsley, Wm. F. Carsley, A. Porter, and Samuel Carsley, jr.

## Foreign Texile ©entres

Maxchesstar - Colton ngain is the one item of absorbing interest in this market. The war between "bulls" and "bears" rages with unabated fury So far the "bulls "are victorious. They have received considerable assistance within the last few days from tho circular of Nelll Bros. and from other American yources, and, as a consefuence, cutton is arm, and a distinct advance towards the expected fd per it has to be chromicled. Egyptian cotton continues to ndvance by leaps and bounds This is by no means an unqualified benefit American spinners were becoming considerablo users of this cotton, but the rapid rise. it is feared. will curtail the demand and eripple this new development The cloth market has nat up to date participatad to any great extent in the rise, in fact, the demand is quito even, at low quotations. There has not been any sesponse from the Listern markets yet, and untll tiat comes manufacturers find themselves in a very unfortunate position legypian cotton has again behaved strangely, and on Tuesday prices stood at a level which indicated an advance of id. since Friday lrices of yarns and cloth made from Esyp. tian growth have been correspondingly affected, and it the advance continues certain classes of fine goods may go up considerably. The velvet and cond cutting machinery brought forward during the past few days appears at length to be performing its work satisfactorily. The general adoption of the machine would mean the displacement of the hand habor now engaged in velvet and fustian cutting in Congleton, Macclesfield, I.ymm, and other points nearer Manchester. The machines made by one firm now cut over three million yards of cloth annually is the secretary of the Spinners' Fialeration said in a communication forwarded to L.ondon the other day, employers in the Lancashire cotton trado are not investing any additional capital in the busincss, and many of them would gladly realize if they could; the return on money invested in English cotton mills is very small In the Oldham district, where the machinery is the newest and the best in the world, while the management is in the hands of men born to the trade, the average enrnings are less than two per cent on a paid-up capital of several millions sterling The leastern markets are in a very unsatisfac. tory condition, and have for some time past been very poor We appear to be approaching tho period when the formation of a "Lancashire" party in the House of Commons will come within the range of early political probabilities. The feeling against the Indian duties grows in intensity, and as business becomes more diffeult, both employers and operatives feel inereasingly incensed at the poor show made by the sixty or more M.l'.'s who represent the colton manufacturing constituencies of lancashire and the towns just without its borders.

Lerda - - In Leeals the clothing houses have had no reason for complaint since the holidays, as a greater amount of business has been forthcoming than was expocted There is every reason to eapect this to last until after the Whitsuntide holidays. Several of the large fac'ories are working overtime, and some classes of hands are guite scarce In the henvy woolen districts a few of the largest firms aro busy, and have received some encouraging orders from the l'nited States and other shipping markets, principally in presidents and reversibles Both in modium and lower qualities of serges a good business continues. Blanket makers have received quite an average of season sorders for the home trade, and there are several large army contracts in course of fulfilment. The orders for fancy rugs for the South African market have boen unusually plentiful.

Hundersfized -Trado still improves all round Further busincas in coaungs contunues to arrive from the United States, in which market the domestic makers are finding the competition from this siefe spocially irritating Already they are taking steps to render the entry of British goois into their country ns dificult as possiblic An association of American manufacturers bas been formal to take stefs to provent the undervaluing of foreign goots by fraudulent int dices, wheh is stated to the of suen common oceur.
rence as to distinctly injure American makers. This action does not seem to harmonize with the greal blowing of trumpets recently made about the importation of American woolens into England. Quite an expansion has taken place in the exportation of proofed costume and matiecloths to America, and the leading proofers here have recently been very busy for this market. The principal advantage of proofed materials in the comparatively dry climate of America is the immunity thus given from showing the marks of rain drops or any other moisture. In the Yorkshire flannel trade most of the arrangements for the coming season are now made, and manufacturers are busy preparing the samples for travellers. There is every appearance of a fairly pood season.

Bradfoki. - The opening of the London wool sales was awaited with unusual interest, not that the tone of the first few days' sales could be safely relied on to indicate the general tendency of the sales, but because there has lately been a growing under-current of opinion that no further advance in the price of raw material would at present take place. In the meantime holders of wool are firm in their quotations, but do not appear to be anxious sellers. Users do not seem inclined to in any way force the market. English wools, both lustre and crossbred descripr.ons, are quieter, but tbere is no difference in price. Considerable excitement in the raw mohair market has been experienced since last week, and prices at the sorrce of supply have been rapidly pushed up. This tendency has been followed to a less extent here, and prices may now be estimated at fully 20 per cent. from the botiom. In yarns also mohairs have recently attracted the most attention, and some spinners have sold so largely that. they will only accept business at prices quite beyond current rates. Although the great business in mohairs has been in folded yarns, trade in single weft yarns for dress goods and lining purposes is steadily increasing, and fancy mohair yarns, such as curls and loops, are much more wanted. Merino yarn spinners, both for coatings and dress goods, are still well under contract for some tirie to come. "I am told," says the Draper's Record correspondent, " that the large spinning mills in Barkerend-road, Bradford, which have been worked for many years by Messrs. Garnett \& Co., have been purchnsed by Mr. Isaac Smith, and will shortly be fully working under his direction. Mr. Smith, in addition to being the head of the immense mills in Bradford and Allerton, is also the charman of the Saltaire Mills Syndicate, and is therefore interested in the production ol a larger quantity of yarns and pieces than any other gentleman has been in the previous history of Bradford." Manufacturers are as a rule busy, and looms are well employed. To meet the demand for weavers, girls are being imported from the country districts to learn the art. It is, neverthe. less, most noticeable that it is only in rare instances that these girls attain the proficiency of the natives of the manufacturing districts, where an aptitnde for textile manipulation seems to be distinctly hereditary. Cripons are still the most attractive class of dress goods, and are being produced here more largely than ever. I am told that one firm are dyeing nearly 3.000 pieces per week, some being very expensive goods The only other classes of black goods much inquired for are mohair jacquards, in minute effects, almost of the "pin-head" charicter, and 2 few very good plann black alpacas. For the autumn season some buyers have sufficient faith in cripons to take up any new effects, but at present face cloths and curled effects are most in favor. Canadians buying recently in this market have many of them left with calt fulfilling the sanguine hopes as to the magnitude of their orders. Representatives of the United States houses are, however, ta'ing more interest in Bradford dress goods than they have done for gears, and would have even increased their onders ic sellers could have kept prices down and deliveries up to time.

Notringilas.-The Valenciennes style is still popular. Cotion milliocry lace departments are suffering much from the compozition of Plauen, which can undersell them, and it may as well be added have produced some very creditable lines of goods in regard boih to quality and price. Oriental laces and embroideries are much in favor, and increasing quantities are being produced in this market. It is well known, however, that immeuse quantities are producal abroad, and that they are tating possession of markets
hitherto supplied by Nottingham goods. The fancy sllk lace departments have been slack for the past month or so. A few silk Bourdon guipure and fine Chantilly laces and nets are selling: but the demand does not keep up, and there are no indications to encournge manufacturers to increase present limited production The Irish crochet everlasting trimming and Swiss embroidery departments are languid, save that $n$ few novelties in the latter style have met with considerable success. Special lines of Honiton braids, beading and pearls have been bought in fairly large quantities for export to the United States and other regular markets. Silk falls and veilings are sclling in black and colors The varicties are extensivo, but foreign competition is increasingly felt here as in other departments. The bobbin net trade is in a flourishing condition, and much difficulty is experienced in finding sufficient trustworthy hands for mending the brown nets. l'rices aro stady and firm. Silk Chantilly nets and light tulles are moving in moderate quantities, and the demand for Paisley and other stiff foundation nets has improved. The lace curtain, window blind and toilet branches are doing a steady business The output of goods is large, but the production is so rapid that with the present number of orders it is impossible for manufacturers to keep their machinery fulls employed. Lacemakers will benefit by the new fashions. For instance, one of the favorite spring hats is that which has the brim slix up the front and turned back in what may be called lapels. The lapels are generally lined with lace of a more or less creamy or biscuit color, sometimes deepening into a butter tint The cleft is sometimes filled in with a large bow of lace, held in the centre with a buckle of Rhinestones or cut stecl. Wings of lace, or jet or steel are very mach used, some of the toques having as many as three pairs of these, rising from a bed of flowers. Some of the new capes, again, have pointed pieces of guipure laid on from the collar downwards, with black satin bows added here and there. Fine embroideries are also utilized in the trimmings, the favorite colors being what some one has called " breakfast tints"-cream, chocn. late, toast and butter.

Soutn of Scotland.-The ready-made clothing trade is slowly improving. Some retailers give their opinion that the demand for ready-mades is markedly decreasing. They attribute this to two reasons, the principal one being the "club" drapers, or credit drapers, as they are styled in England, and the second being the natural preference of cash buyers to have suits made to order Indeed, from the general opinion gathered, it seems surprising that so many ready-made goods are shown, as in one house in the retail trade with a reputation for ready-mades principally, more than two thirds oi the trade is stated to be "to order" or measure. The Fifeshire linen trade is maintaining and increasing even in the demand for all classes of goods. Prices of raw materials inave been advanced further in the transactions of ii. past week, and makers have been holding bach in purchases as much as possibic. The market, however, is certain to continue firm, as tis orders for makers from all markets, and particularly from the States and from heme centres, are mantaning a steady tonn. The Kirkcaldy finorcloth trade has been disappointing to some extent up to the present, although no firm complains of actual dinainution of amounts. The increase hoped for has not. however, been realized. The competiiicn of English firms in the cheaper class of goods is felt by most makers, and it might be a good policy on the part of the firms in the district to arrange a low watermark in goods below which none would compete. This idea is hinted very pointedly in an announcement in a Dundee house furnisher's advertisement, viz "Only reliable Kirkcaldy flooreloths; we do net keep the cheaper English makes." The Glasgow coton yarn market is in a steady position, with a satisfactory amount of business doing, and sellers are in the position, after a long reversal of the position, of having the upper nand in sales. Ayrshire curtain manufacturers report only a moderate trade all round. The homs demand has not realized expectations, and the American trade has not "come away," as the saying is, but, on the contrary, very hard pushing is necossary on the part of travelers and agents on the spot to secure orders, which are generally below the average usually reached for spring season. In designs, the preference, in the home market specially, is for
double border curtains, and the top pattern designs are also having a favorable run Glasgow wool market has been quiet since the last public sales, but prices have been ww il sustained. What orders have been aeceived have boen principally from English and american buyers the trade from Scotch makors having been unusually small for April. Tweed manufacturers in the Ilawick district are disappointed with the season's trado in gents' tweeds, and makers who have anticipated a delayed demand for summer goods are anxious regarding their stocks A fow r-ys may bring a. at a clange. "but, at the present, the scarcity of repeats for the end of April is almast unprecedented in ladies' tweeds a more sarisiac. tory trade has been done for the spring, and for noxt season sume makers are very well filled with orders.

Dundes.--The market remains inactive. Jute is a shade easier to buy, sellers being anxious net so warchouse parcels on the guay. The nows from Calcutta is favorable. The sowings are said to be large, and the rains have come, if a littlo late, still in time. The prospects of a large and good crop are therefore favorable. One hears of sales of new jute by speculators at $£ 12$ tos , but the business is not large. Fiax is again less firm, and to effect sales holdere incline, on white flax, to necept the recent rise, but refuse lower offers. Good brown flax is scarce, and relatively dear. The unexpected and inexplicable feature of the market is the sharp rise in tows. No I Archangel on the spot has been sold at $£ 26 \cdot-\mathrm{n}$ rise of quite jos. on the month. France has been buying tows largely at prices Scothand cannot look al. Jute yarns are again done at s. $11 / \mathrm{d}$. for common 8 lb . cop. It is not passible to buy good common at iess. For warps, is. $31 / 2 \mathrm{~d}$. is the current price Heavies of superior qualities are firm at I 行d. for one-lea. Common qualsties in heavier sizes are difficult to sellat I $1 / \mathrm{dd}$. Hesstans are quet, with little doing. For fine wide goods the demand is excellent, but only for the very best goods can this be truly stated. Linen yarn is firm at the recent advance. For 3 lb . flax done at $: 9.4 \frac{3}{} \mathrm{~d}$ the price is 15 . 61 , and for tow 3 lb . weft done at 15 . $0 \frac{1}{2} \mathrm{~d}$. the price paici is :s. 2d., wisite 19. $2 \frac{1}{2}$ d. is asked. Linens are in fair request. all the looms being now employed. The imerican demand is c cellent, and some large orders have been placed. Arbroath is quict. but for sailcloth there is now a fair demand, although not enough to warrant full time. Fifeshire is in much better heart, a far bustness being done from day to day. The fancy jute trade is better The demand for all kinds of carpets and rugs increases. Theso beautiful, cheap, and useful goods are being now largely used. The trade in cords, twines, and ropes steadily grows.

Belpast.-With a steady consumptive demand the course of prices in the linen trade exhibits marked and continued firmness. The local yarn market has been considerably strengthened by the action of Contitental spinners, who are quoting advanced rates for almost all classes The demand is characterized by an almost complete absence of speculation, and is about sufficient to take off the weekly production. In flax the only change worthy of note is the advance asked by holders of Russian flaxes. Spinners so far have not pard the advance, and are working up the stocks they already hold. but holders of flax are firm in their adherence to the advanced quotations demanded. In linen piece goods the trade is well sustained, and is marked by a gradually increasing demand for finer qualities than have been sought after of late. The home trade buyers have been operating on a firirly liberal seale, and exports continue to be satisfactory in quantity, especially to the United States of America. From a return issued by the Unital States Consul, at Belfast, the shipments of Irish linens for the past quarter are shown to be in excess of those for the corresponding period in any of the past threc years As compared with the corresponding quarter of $189 \%$, the shipments of linen goods for the past quarter to the United States show the very substantial increase of 76 per cent. in value. Shipments of cotton handkerchicfs and cotton and union goods generally show also very consuderable increase, comparing the same periods in cottons alone the amount of shipments from Belfast for the past quarter are more than double those of the corresponding pertod oi last year in white linens a $i \times 1$ 'sfactory demand has sprung up for the fine setts, which had been comparatively neglected for some tume past. Fine
sells of Ballymenas, which were almost unsaleable some time ago, have boen freely purchased within the last week or two, and the market is now almost cleared of them. The same setts, if to be mado today at present cost of production, would cost considerably more than the prices that have been lately suling for them. Great activity still prevails in the making up trades. The Belfast lolland apron factories have not been so busy for many years past, their only difficulty being to turn out the orders they are receiving and havo alseady booked, in anything like reasonable time In this reapect, however, they are all on an equal footing. every factory working up to the full extent of its productive power. youer.foom linens for bloaching purposes continue to move off in fair quantities. and bleached cloth for home consumption has been receiving greater attention Union goods throughout the various makes still command a preference.
l.uxgan. - The linen cambric trade here still keeps good, but orders are not coming so quickly as a couple of months ago: no doubt the cold weather remaining 20 long has had a bad efiect, but altogether business is fairly good. The demand for hand-loom plain linen cambric for hemstitched lroods continues, and in fine numbers, at hardening prices. Woven bordered handkerchiefs, hand-inom makes, are perhaps slighly dulter than last month, whilo the demand for coarse and medium selts in linen bandkerchiefs fromb bolled yarns continues The turnout from hand.looms has been prelly good, but is now dropping off. Power-loom manufacturers keep fully employed, and the push to get hemstitching dnne still continues, machine hemstitchers having to work overtime to keep pace with the orders. There is some dulness amongst makers of fine hand.loom damasks, but diapers and coarse makes are wanted, as are linen embroideries in shams, sheets, etc. Apron and blouso makers aro very busy. - Irish Textile Fourmal.
1.yows - The market for silk yarns continues fairly active, and prices are fully maintained. Japan and Canton silks are the object of an especially active demand Cotton yarns have an average market, and the demand for wool yarns has somewnat increased at stationary rates The demand for piain silks continues unabated, and is principally for all-silk woven textures The business in win. ter articles has now fairly developed, and orders for cotton-mixed and woolen-mixed fabrics are coming in frecly, in consequence of which all power-looms weaving sateens and broad ribled black goody will be fully occupied for the next few months Broche silks are ordered out for the next scason, in all-silk textures. The demand for ready goods runs on silk makes, whilst the cotton-mixed articles have less attention. The mufler and handkerchief trade is of litile importanco. Ribbons meet with a good sale, particularly for checks, stripes, and printed corded styles. A very good demand lias again sprung up for silk-embroidered tissues and embroidered tulles for the winter season. There are a good many buyers on the market

Plaugn, -Guipure lace has been in slightly brisker demand in 3. 4. and 5 centimetre widths. The lengths ordered, however, have been small Paris has not sent forward many orders The articles inquired for include lace embroidery on net, entredeux on net in to-centimetre widths, and guipure collars London and Berlin have also been rather quiet, but should be sending torward more business to Pinuen by the time these lines are in pant. Further orders are awnited from America It the leginning of April most of the contracts on hand had been executed, and only as few repeat orders hal come to hand. The arrival of buyers for the "fall" was, therefore, eagerly awaited. Many are now over There are very few novelites to report. Amongst those worth mentioning are embroidery in white cotion on unbleached limen, of which the effect is rather original ; a few muslin embroideries which seem to be sold (xirly well, and a series of styles in tulle, entredeux, and guipures

Cumxirtz-A report on the Chemoitz tade speaks of the market as firm in coarse-gauge goods This advance is partly due to the high price of yarns, partly to the advance in wages. Good orders bave been placed in these lines, and espectally in tleeced linas. Manufacturers are well sold up in cheap goods, as well as in better grades, and before the middle of June it will be almost
impossible to get any more goods delivered for the autumn trade. In fleeced hose also unbleached qualities have been asked for more than in previous seasons, but black is still leading, and outside of that only tans and a fow slates and $\pi$ des are bought In fine gauges trade is slow, and as work is getting scarce on these goods prices are not steady. They are still a trifle higher than last spring season, but if orders do not come in soon they will reach that level again. Lisles are sclling slowly, and prices in the better grades are not firm. Silk.plated hosie:y is used very little, and one may say that it is not bought at all now by European buyers. Cashmere hose bave advanced in price from M. 20 to M. 10 per dozen, secording to weight. These higher prices are due to the advance in the price of the raw material, which has gone up considerably during the last fow weeks. Orders for cashmere gloves are coming in quite freely, anci makers will soon have their broks filled. There are some gloves sold in New Y'ork at so low a price that they cannot be made here and landed there at a profit. Looked at from this point, it is difficult to soc how the thing is done. Later on the higher yaro prices may also have an effect upon gloves, but now manufacturers have still contracts for yarns at old prices. Knit gloves seem to be selling fairly well iruflers made in the neighboring town of Frankenberg are this season in good demand. All-silk goods are slow, but cashmere, half-wool, and half-silk qualitics aro selling in good quantities.

## THE PIECE DYEING OF CLOTHS.

The great thing in picco-dyed goods is to avoid the appearance of blotches, unevenness, and dullness in colors or finish. And to avoid these defects it is quite as needful to have the right kind of work done before coloring takes place, as during the dyeing and in subsequent treatment. But now our attention must be directed to the coloring.

In dyeing a piece of cloth it is often found well to keep the selvages tacked together, just as they are for the fulling and scouring. This is true where the stock is of such a kind as is apt to full up under heat or friction. The whole tendency of the coloring is to act on the nature of the fibre in the way of shrinking it up more than the amount of shrinkage which it has already received. But this is not the only reason why coloring has better effects where selvages are tacked. The amount of handling which a piece receives in dyeing is always a matter of considerable importance. Well, if the gigging has been done previously to the dyeing, and if the steaming has also preceded the coloring process, it is a fact which must be evident to all, that every bit of handing is going to be in dancer of roughing up the face dbres and soleading to a possitility of imperfections in the finished cloth. Of course, this is not nece:sarily the result of the process, but all we say is that the tendency is that way, and if the finishing processes have been well undergone before the coloring takes place, it certainly tends to preserve the good condition of this work if the face is kept as much as possible out of the way of bad handling in vats.

The ordinary precautions as to the need for uniform treatment. and as to she necessity for avoicing everything which will be likely to lead to lack of uniformity in dycd results, are hardly necessary here, as our intention is to deal with the Enisher's part particularly in this matter, and not with the dyer's. If the finisher sees that his goods are well cleansed and well prepared for the dycing, and then, if the stock and finish demand it, sces, too, that the selvages are tacked together, then we can safely leave the dyer to look after bis own part of the work and see that it is well and properly done. So far as preparation for dyeing is concerned, there is little more that can be said.

Now the third stage arrives, and this has more direct bearing on the finisher, for he is particularly interested in this part of the work. We will suppose that the cloth has been dyed and is ready to return to the finisher's hands. The first thing to do is to wash them. Just as well by the way, of course, to extract them, if it has not boen done already, and then the washing may be proceeded with. Now, after the coloring has been done, there must be no time lost in getting the goods into the washer. And on some goods and with some colors it is a question whether even the intervening
extracting is allowable, but under ordinary circumstances it will be all right. If the goods are from stock or colors particularly susceptible to being affected by lying in the wet, and it shading is easily brought about, it would bo well to push them right on at once to the washers. In doing this the effects of lying in the coloring matter and in the wet are not so likely to occur as where this risk is run In giving them an intervening extracting. In the washer take such steps as wlll at once begin the process and lead to the removal of all traces of coloring matter. Put on warm water, allow to drain, then apply the soap in very weak solution and run long enough to loosen up all the foreign matter. After this rinse thoroughly and remove the goods. The extracting now follows, and after that the drying and final processes of finishing. It ought not to be necessary to resort to gigging at thi, stage if it has been done before the dyeing. But if a fow runs will add to the condition of the nap it will not be out of place. The only thing is, that it will not do for the gigging to work down into the body of the cloth and so raise up new nap. This is the kind of treatment that is apt to dull the brilliancy of the color, and should be avoided, but a slight run to smooth out the face and straighten the nap will do no harm. and may even add to the finishe' nppearance. The remainder of the finishing processes are undergone in the usual way - Rundolph. in: Boston Geurnal of Commerce.

## THE WOOL MARKETS.

The Montreal wool market is quiet, with fair sales, considering the time of year. Cape greasies are quoted at 1310100 ; B.A. scoured. 25 to 32c.: North-West. If to 12c.; B.C., 9 to isc. Americans are buging largely in L.ondon, on account of the so per cent. duty being taken off. Prices for Americin wool are still keeping up nevertheless.

Stocks in Montreal are very light. A cargo was discharged ten or eleven days ago, and another is on the way. No Canadian wool of the new clip is in this market yet and spring samples will not be shown for a few days.

The Aprit-May series of colonial wool sales opened in London on the 30th April. The attendance was good, but the demand was slack and prices at first ruled 5 per cent. lower than at the previous series. As the sales progressed, however, the demand became brisker and prices are firm.

The following are prices of new clip wool quoted at various local markets during May:

| Hamilton., .................................. . 18 to 19 c . |  |
| :---: | :---: |
| Fergus | 18 " 200 |
| Mt. Forest | $16^{\prime \prime} 88 \mathrm{c}$ |
| Cliford. | $17{ }^{\prime \prime} 198$. |
| Guelph (unwashed) | $9{ }^{\prime \prime}$ > 3 c. |
| Ditto (coarse fleece) | $17^{\prime \prime} 200$. |
| Ditto (fine) | $18^{\prime \prime}$ a3c. |
| Belleville.. | " 17 c . |
| Drayton | 16. |
| Renfrew | ${ }_{17}{ }^{4} 200$. |
| Fenelon Falls | $17^{\circ}{ }^{18 c}$ |
| St. Catharines, Ont.. | 16"20c. |
| Peterborough | 16 " 17c. |
| Ditto (Southdown). | 20:. |

## toronto wool market.

New wool from the farmers is coming in, and the condition is about the average, but there appears a doubt as to what wool should really be bought at this season. A number of country dealers think that Canadian wools should bring a higher price than last year. We are not ci that opinion, and think that 17 to 18 c. a pound for a good selection of Canadian combing is a very high price. compared with the price of English and Irish wools of the same quality, and there is a danger that there will be too much paid for the Canadian clip.

Conrse Wools - For the first time in a great many years the entire clip of 1894 has been cleared out.

Fine Hools from the Territorics.-These wools have been less encouraging, and there are several hundred thousand pounds being
carried over from last jear, especially the fino, and wools of the Montana merino typu have not realized the prices anticipated when bought, owing to the fact that Westorn dealers having large quantities of Montana, Idaho and Oregon wools for wale, frecly offered them in this market at from 7 to 8ce a pound, delivered at the nills This had a very depressing effect upon tho wools grown in Manitoba and the North-West. Yhere was one large sale of Nortl. Wast wool made, about 40,000 pounds, at less than ge. This is very discournging, but wools aro being pat up in bad condition, and have proven very tender in staple The ranchmen will have to improve and grow stronger wools and of sounder staple. The present prices of wool in this market are:-

| Combing | 18 | c. |
| :---: | :---: | :---: |
| Cloihing | 18 | 19c. |
| Prure Southdown | 20 | 2 ic . |
| Unwashed | 11 | 12c. |
| Combing, clothin | 12 | 13 c. |
| Peru cotton. | 121/2 | 13 C |
| Good stapled Ain |  |  |

## LINEN THREAD.

This is a thread that is ased by so many manufacturers of dif. ferent kinds, that it may be inieresting to know to what extent the flax plant is used. The celebrated firm of $\mathbf{W m}$. Barbour \& Sons, Limited, of Lisburn, Iteland, who have branch mills in the United States and Germany, and stores and agencies in all parts of tho world, are the largest firm in existence, making linen threads for every branch of trade where thread is required.

The fuander of the firm might well be termed the fioneer of the flax thread industry, having gone to Lisburn from Paisley, Scotland, in 1784 , and with the enterprise of the Bartour family, in each generation, past and present (and we hope the future), they are certainly the leading linen thread firm in the world to-day, having over 5.000 employees.

Flax is a most beautitul platit, and those who have had the good fortune of visiting Ireland when it is in bloom, will always remember the treat they enjoyed and still wonder what strength this plant must have to give the results it does, after the process it goes through, in cleaning. twisting, spinning, etc., etc. No other plant yet utilized in commerce is mide into such a variety of threads. The following are some of the purposes to which it is put - the making of boots and shoes, for hand and every bind of machine work, harness, trunks, clothing, book-binding, sail-making and fish nets, upholstering, gloves and mits, carpets, embroidery work in eve:y color, looking equal to silk aed wearing better, and costing very much less: lace making, from the coarsest to the finest work so well known to the ladies. Wm. Barbour \& Sons also make threads for many other special purposes. They have been rewarded gold medats at all the $p$ incipal exhibitions throughout the world, and received six highest awards at World's Fair, Chiengo, being the only linen thread firm awarded this number.

Thomas Samuel \& Son, Montreal. Toronto and Quebec. are the sole agents for Canaua, carrying general stocks at these places for the convenience of their many customers. We would refer to their advertisement on another page of this journal, and also recommend Barbour's thread as being alvays reliable, a fact unnecessary to emphasize to those who have used it. the experience of past jears has shown the users of Barlour's thread that tho best thread is always the cheapest in the end, and they will continue to use Barbour's only.
'Mullersos's preparation for cleaning clothung is a mixfure of turpentine, $261 \leq$ parts, ammonia solution, 19 parts, methylated spirit. 25 parts. ether, $2 \frac{1}{4}$ parts, aceuce ether, $2 \frac{1}{2}$ parts, and water, 25 parts: all by weight.
D. S. Lewis, an old dry goods merchant of Montreal, but for several years past a resident of Toronto, died a few days ago, aged 73 He was a member of the firm of Ogulvy, Inwis \& Co . in existence about forty years ago, and afterwards head of the firm of Lewis. Kay \& Co.


## WILIIAM CRABB \& CO.

sinnuthactureme of all kinds of
Hackle, Cill, Comb and Card Pins, Picker Teeth, Needle Pointed Card Clothing in Wood and Leather for Flax, Jute, Tow, etc.
Hachlon, Cills and Wiool Combs rande and repalred; aloo Ropo Makerx Plas, Picker Pins, Special Spring: Iootn and Shulle Spilngs, Engiish Cast-Stee Wire, Cotion lianding and General alitl Furnishinga Bloomield Avenuo and Mortis Canal, NEWARE, N.J.


## WANTED

The names and aduresses of all aspiring mill-men engayed in the woolen industrespeciall) devigners. weavers and loom ficers Send pistal card is

A A malnusle.
Hrasher Falls. $\mathrm{I}^{\prime}$
The estato of W'alter V'. WI. Stanford. Jry goots merchunt, of Arnprior. has paid a disiorend of 39 cents on the dollar. The lialulities were $\$ 33024$.
E.N ERY wel! regulated factory should have a kraveyard of its own to bury its living deailmen in. iree of expense to the town. And if thoso hunian yeast cakes who are continually starting lahorers to fermenting were fut under ground, "they sever would be maserd," fier it is time that the bonest. reasoniog operatives started counter organi. zallons and dinove the disturbers ont of the mall superantendents had better let the machinery siand forever than employ one of them, and the only sale way is to weed them out in limes of peace, for they are sonersudiscont - 11 indis Filrs and Eahric

Fatientis Promply eecured. aradourarti copjrishis and dabele reatelera Twanty-are Feits ex-




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At 3 per cent. and also at 4 to 10 per cent. \$3.00. Elther book sold separately.

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No. 381 BROOME STREET,
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NEW YORK CITY

## A mong the Mills

J. T. Burns intends ececting a woolen mill at Manitowaning. Ont., this summer.

The Waterloo, Ont., Knitting Co. are puting an ell to their factory for the manufacture of blankets.

The Richelieu woolen mills at Chambly, Que., report orders on hand sufficient to last till November.

A carpet factory may be established at Strathroy. The town council is asked to grant the company a bonus of $\$ 3000$.

James Lochric. cordage manufacturer, Bloor Street West. Toronto, has added bicycle manufacturing to his business.

Joha Hewton. general managur of the Kingston Hosiery Co., has been elected president of the Kingstou Board of Trade.

A glove factory was proposed for the villoge of Elmira by A. E. Mcklin, of Acton, but the project bas now been abandoned.

The Canada Garnett Co., Montreal, is running at full capacity, with several orders in hand for from now to September delivery.

John Stingsby and E. Waltho, who oprate the woolen mill at Dunnville. Ont., are getting in some new looms from the States.

Joseph Blomley, who has been oversear of the card room in the Nillown, N B., cotton mill for nearly five years, has left for Fall River.

Louis Simpson, manager of the Montreal Cotton Company's mill, Valleyfield, has been on a brief holiday in the Southern States this month.

The woolen mill of Hamelin \& Ayers, Lachute, had to clost down last month for a time owing to the flome being carried away by the freshet.

The weavers of the Courtenay Bay cotton mill, owned by Wm Parks \& Son, Ltd., St. John. struck a few days ago, ard the mill has been clused down.

The carding mill on the St. Lawrence neir Canghnawaga, and that near Iberville, Que., are bsing advertised for sale by $\boldsymbol{R}$ C. Montgomerie St. John's, Que.

The Baird woolen mill at Almonte, which has been closed for some time, is likely soon to be sold by judicial sale in order to obtain a settlement of disputed rights.
J. M. Rright, of Listowel. Ont., has been given the mariagement of the new flax mill at Wallaceburg, which will be incorporated as a limited company, with $\$ 10,000$ capital.

The first of this scason's wool was sold it Hamitton on the and May to Long \& Bisby by Mr. Cox, of Glanford, who has been the first in the market for several years The price paid was 88 cents- 2 cents higher than was paid for the first croplast year.-Hamilfon Times.

The report circulated last month that there was to be a carpet factory at Glencoc turns out to be unfounded. J. A. Leitch, the reeve of Glencoe. informs the Journal of Fairtes that a party from St. Catharines was thece recertly looking for a site and a loan, bat the negotialions came to nothing.

Robert S. Fraser, Montreal, has brught out the stock of James Leslie \& Co.-who are moving to Charlatte., N C-and intends carrying a fuller and tetter assorted stock than ever. Mr. Fraser has now probably the largest stock of card clothing and gencral woolen mill furnishing in Canada. Mr Leslie is moving his machinery this moath.

On the iSth utt. the weavers and warpers at the Comwall Manufacturing Co.'s mill struck for a restoration of the pay received last year, when a reduction of tea per cent. was made. The management did not see their way to restoring wages to their former level, owing to the condition of trade. espscially when a higher rate was now paid than in Montreal. After belag out a short time the strikers returned to work unconditionally, and were all taken bacik except four of the ringleaders of the strike.

The Globe Woolen Mills Co., of Montreal, have lately put in a 250 horse-power eogine.
J. \& J. Livingston's flax mill at Palmerston. Ont., was burnt last month with 60 tous of tow.

Fisher \& Co., woolen manufacturers at Alliston, have been succeeded in business by Fogers is Ca.

The Tryon, P.E.I., woolen mills, which have been closed down all winter, are now running again with a full complement of operatives

Wm. Irving who formerly had a woolen mill at Wyoming, and now of Merrickville. Ont., contemplates starting a woolen mill at Sundridge, Ort.

Dufton \& Sons are putting up a three-storey brick addition to their woolen mill at Stratord. The a Idition will be used as a store room and office.

James Randle. proprictor of the woolen mill at Meaford. Ont.. has recently gone into the manufacture of carpets. He has added a boiler to the dyehouse.

A young man named David Nicholl revently had his hand and arm badly lacerated by a carding machine in I) M. Fraser's knit. ting mill, at dimonte, Ont.

The Empire Carpet Factory, at St. Catharines. Ont., was recently offered for sale by auction, but was withdrawn after the bidding had reached $\$ 1,200$.

Thomas Chadwick, of the firm of Thomas Chadwick \& Sons, East India wool and hair dealers of Diwsbury. Eng., is in Montreal thes month, on his annual visit to Canada and the United States. The business of this firm coatinues to extend throughout the con. tinent.

Long \& Bisby, commission wool merchants, Hamilton, Ont . have brought suit against the Smith estate to settle the ownership of $\$ 5,000$ worth of wool alleged to have been purchased by the Smith Bros., woolen manufacturers, Sarnia, on ticir account, but which the croditors lay claim to as part of the assets of the estate.

Mark Warburton, the genial representative of Mucklow \& Company, Bury, England, is paying his annual visit to the principal mills of Canada. From the way he is received it is quite evident that Mucklow's extracts and dyewools are giving satisfaction. The Dominion Dyewood and Chemical Co. Toronto, are the agents for Canada.

The Garden City Carpet Mig. Co., who succeeded Stephen Syer in St. Catharines, with a capital slock of $\$ 10,000$, has made an assignment to John Harvey. The liabilities are nearly $\$ 4,000$. and the assets about $\$ ; 00$. The company has only been incorporated for six months. The capital sunk ia the coneern was in. sufficient to extricate it from the difficulties of the previous firm

The Court of Review, Montreal, has maintained Mr Justice Lynch's decision in the case of the pike River Mills versus iv 11. Priest, and rejected Mr. Priest's petition to quash the capas under which he remains arrested. failing settement of the company's judgment arainst him for $\$_{5}, 6 \times 5,5,10$ avoid payment of which he is charged with having fraudulently dispossessed himself of his preperty.

The Paton Mis. Co. have a cricket club called the Paton Inills Cricket Club of Sherbrooke. The following aro the officers this year: President, W. E. I'aton; vice-president, Mr Meikiejohn. and vice-president. T. Bland: captain. M Smith: reasurer. I. Hudson; secretary, A. Morecroft, committoc. T Inland, A. Morecreft. I. Hudson. 31. Smith, who will be pleased to argange for matches

The annual meeting of the Globe Woolen Mills Cempany. Montreal, was held a few days ago. The year, on the whole. has not been a good one for woolen mills, and the company has suffeed more or less from keen competuion. The old board were re-elected 25 follows: Sir Donald A. Smith. A F. Gault, Andrew Allan, Ilugh McLennan, and $R \mathrm{R}$ Sicvenson. At a subsequeat meting of the diroctors A. F. Gault was elected president, and Hugh Mctennan. vice-president.

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 oak-Tanned and White Belting Cotton Banding, Rim Spindle and Braided Shuttles, Plekers, Heddles, Harness Patent Frames, general furnishings ROBT. S. FRASER

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 HEAYY FLY-WHEELS a Specialty

Wallacel:'rg. Ont , capitalists will scek Incorporation as a limited company with $\$ 10,000$ capital to run a flax industry. The following directors were appointed P. Forhan, M, J. Hurley, J. II Bright, T. Gilhuly, John Skinner, ]. W. Steinhoff and W. J Murphy. The fax seed will be distributed among the farmers as desired.
W. J. Matheson © Co. dyestuff manufacturers and dealers, New York and Montreal, have sent us some very handsome samples of the diamine dyes produced by Leopold, Cassels \& Co, of Germany, for whom they are the American agents. These are various shades $c f$ orange and brown, there being 22 shades in all. and some are vers benutiful.

Reference has been made in this journal to a new Brussels carpet factory which it was proposed to start in Canada. St. Catharines was spoken of as the site of the factory: but Mr. Talbot, the prujector, has decided to locate it Elora, Ont, whers he has been joined by Mr. Cockroft. They will start to work with 33 looms, which are now being got into shape, and some of them are to be put into operation this month.

Speaking of the advantages of washing wool on the shecp's back, an Ontario farmer assured the Uxbridge Fournal that wool washed on the sheep was stronger and better than wool washed after being clipped, and his reason for this belief is that during the few days allowed for drying after the sher.p havs been waslied. a certain amount of strength and life goes lack into the wool that is entirely lost by the other method.

It is announced that the Brantford branch of the Consumers' Cordage Company las changed hands The factory, which was established ten years ago by a local syndicate, was bought by the Consumers' Cordage Co., four or five years ago. at a good figure it has now been acquired from them by a company consisting of the present local manager, P. L. Connor, with N. K. Connolly, of Quebec: M. Connolly, of Montreal : and John Connor, of St. John, N.B. It will hereafter be known as-the Brantford Binder Twine Company.

Alex. Miller, senior partaer in the wholesale dry goods house of A Miller \& Co, successors to Disniel \& Boyd. St. John, died recently at the age of 5 t, leaving a wife and two daughters behind him.

Tie death is reported from Glasgow. Scothand, of J. D. Bryce. who will be remembered by old dry goods men as a former partner in the extinrt wholesale firm of Bryce. McMurrich \& Co., Toronto. He had cetiret from business over 20 years, and devoted the declining years of his life to philanthropic work.

WANTED-Situation as Finisher. Tweeds, eassimercs, worsteds, dress roonds and fanncla, Temperate and industrious. Practical exjerience from loom to cace. Addicas "Finisher," Tink Canadins Joz risal oy fairics,
Alontreal, Que. Montreal, Que.
WANTED-Tu rens. or a parincralip in a onesct! Woolen Mill. Muse have ar Eanzics, dontranl, Que. Address "Woolen Mill." Tue Cavadiar Jotramal er Fanaics, Moniroal, Que.

## New York and Boston Dyewood Co. <br> Manufncturers of



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A, W, LEITCH, 10 Ifughson Si South, HAMILTON, ONT

Sils is so cheap in Madagascar that the poorest people wear clothing made of it.

Tur new dry goods establishment of S. Carsley. to be built opposite the new Canada Laife building, Montreal, is to be nine stories high.
T. R Filist, who has been for the last three years with $R$ Henderson \& Co, dry goods manufacturers' agents. Montreal, is now engaied as traveller for Skelton Bros. \& Co, shirt manufaclurers, Miontreal

A bissot.ution has taken place in the firm of Menougall, Barrett \& Co., wholesale woolens, Montreal. John F Reddy retir. ing owing to ill-health, and the business will be continued by slex. MicDougall and Jolin Barrett under the old style.

Henry Duvprger, the Montreal wholesale dry goods dealer. whose failure has already been recorded, has made a cash offer of 35 cents on the $\$ \mathrm{~s}$. The creditors are chielly in the Old Country. The latest statement shows liabilities of $\$ 34.47^{2}$ direct and $\$ 25.042$ indirect.

Anowg the cases before the Supremo Court at Oltawa, this month, was that of Liggett vs. Inamilton. The parties (who formed the old firm of Liggett \& Elamilton, carpet dealers, Montreal) had dissolved partnership and appellant sought to be allowed remunera. tion for services in winding up the partnership Respondent claims that the law of partnership does not allow such payment without an express agrecment Judgment was reserved

## CHEMICALS AND DYESTUFFS.

The demand for chemicals and dyestuffs has improved much. Some articles are firmer, Gambier baving advanced fully id per lb. during the last five weeks. Sulphate of copper is firmer in sympathy with copper. The following are current guotations in Montreal:


## A. KLIPSTEIN \& COMPY

${ }_{12} 2$ paill strite, wey yoak
Chemicals and Dyestuffs
AMILINE COLORS OF EVERY XINO
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## DEATH OF ROBERT FORBES.

Manufacturers and dry goods merchants thronghout the Dominion will have learned wilh regret of the death, at the age of 81, of Robert Forbes. senior member of the R Forbers Co, Ltd., the well-known worstad manufacturers of Hespeler, Ont For the past two or threo years Mr. Forbes had been able to pay enmparatively dittlonttention to businese. owing to falling health, and for about three months pretions to his death. which took place at Guelph on the 6 tha May, he had been largely confined to the house. In the forties Mr Forbes, with his brothers David and James, carried on a general storo in Galt, and he and David afterwards started a paper mill The Barber Bros, afterwards large woolen mill owners themselves in Georgetown. were once in their employ The Guelph Mercury gives an exten lel sketch of Mr. Forbes' career, from which the following is taken

- A native of Berwick. Scotland, he learned the business of a draper in Paistey, and came out to Hamilton in $\mathbf{1 8 3 9 - 4 0}$, where he was employed in the wholesale establishment of the late Hon. Inaac Buchanan, Harris \& Co. Two years later he went to Galt, and startod a general store, conducting it with success for eight years or so, when, owing to ill-health, he turned it over to his brother David. After two years be took possession again, but subsequently sold the business to Gavin Hume, and went into a tannery at hespeler for five years. He then bought four hundred acres, the Linderman farm, in Puslinch, and there carried on a lumber business, making beadings and shingles, until some eighteen yoars ako. when he and Mr. Schofield purchased the Randall-Farr mills in Hespeler and continued the woolen business. He had previonsls movad bis family to Guelph. Mr. Schoficld retired after hvo years, when Mr. Forbes took the management, assisted by his sons, the late James 11. and George D. the firm becoming afterwards merged in a joint stosk company, in which Mr. Forbes held the chief interest. The business at Ilespeler is a very extensive one, employing over 300 hands, and perhaps no concern in the Dominion has a higher recond for giving steady employment to its operatives
" Mr. Forbes was a large stockholder and for many years a director of the Guelph and Ontario Investment and Savings Society. and had large interests in the Guelph Light and Power Company. He also owned the old Allan mill property at the bridge He was very successful in his business iransactivns, his well knuwn prubity. foresight, Industry and gencrous dealings having gained for him a well won compeleuce.
* Very few know the extent of his benefactions He was natu. rally retiring, and his wide range of charity was generally hideden from the public. Towarts the procuring of an ambulance for the elty he was amain contributor: tho General Hospital owed not alittle to his gifts, and many in privaie life have reason to be grateful for timely assistance. In the work of the Preshyterian Church and of Chalmers Church, which he attended, he was very liberal. The best of good feeling was always maintained between him and his employes, and their annual excursion at the firm sexpense was one mark of their snutual esteem and interest.
" Eo leaves behind him his wife, fermerly Miss Duthic, whom he married in Galt, a sister. Miss Forbes, in Galt : his son, George I., Hespeler, his daughters. Mrs Chas. Auld. Guelph : Mrs. Wm. Nicol, Kingaton Misses Miaggie and Carrie at home, and it is safe to say that in the intimacy and cever present kindness of the hoine cirele his loss will be most deeply felt "

Tue Waterlon Adrcthery cavils al the generosity of A. F. Gault in presenting $\$ 100.000$ to the diacesun Theological College. While ethers applaud, the Adsertiser sneers It concedes that worse use might be made of the maney, but then it complains that the money whs made by extortionate profits exacted from consumers There is no deed so noble and magnanimous. no act so praisewnrthy and unselfish. that thero will nat be found seme cynic to question lts motive Ar. liault bas not only proved the value of his citzenshif by his unosientatious liberality, but by his enter. prise and public ryirit he bas mado for himself a name that is hourred in every part of this Diminjou -S: John's S'res.

Joun Muldrew and his depheiv, W. II. Muldrew, have formed a partnership, and will open ollt next month as wholesale dry goods dealers at 24 Front street west. Toronto. Mr. Muldrew was for several years with H. W. Darling \& Co., and afterwards with McMaster \& Co.

Tur Canditan Joursal of Fabries is issued monthly in Montreal and Toronto by Messrs. Bigaar, Samuel \&Co., and is one of the most useful and compact periodicals of the kind published in America. It is only $\$ 1$ per annum. It is almost invaluable to those interested in woolen, cotton, linen or silk fabrics.-St. Yohn's Que., Netes.

Many seaders of this journal who knew john $C$. Watson, the Alontreal wall paper manufacturer, will regret to hear of his somewhat sudden death on the and ult. whilo on a visit to Bermuda, in company with his niece. Deccased was born in Glasgow in 1826. and was a man of kind heart yet sterling character. He started his wall paper factory in 1880 as J. C. Watson \& Co., but in April last the style was changed to Watson. Foster \& Co.. on which occasion a handsome presentation was made to Mr. Watson by the employees of the company.

Tur annual mecting of the Canadian Colored Cotton Mills Co. was held in Montreal on 16th inst. The annual report showed that the past year had been one of depressed trade. American manufacturers had been keenly competing with the company in this market. The total sales werc below the previous year, but now that prices had risen in the States it was expected that American mills would leave this market to the home manufacturers. No dividend was declared. A considerable amount of money had been spent during the year in improved machinery, and this, with the fact that the mills had now raw coston enough on hand to last till November, gave a better outlook for the coming year. The directors elected were as follows: A.F. Gault. president; C. D. Owen, vicepresident: T. King, D. Morrice and R. L. Gault.

Tukre were three tenderers for summer clothing for the AIon. treal police force, as follows: Kelly Bros., officers' blouses, allwool, indigo blue, $\$ 10.50$; men's blouses, do., $\$ 7$. Arcand Freres, officers' blouses, do., \$11.75. men's do., \$7.50. R. Charlebois, officera blouses, $\$ 15$. men's do., \$9. The last named got the contract. The following contracts weremawarded for the fire brigade: Arihur L. Brault, contract for the officers' tunics at $\$ 23.45$ each, and officers blouses at $\$ 21.75$ each Boisseau Freres, contract for men's tunics at $\$ 17.70$ each, and men's blouses at $\$ 9.15$ each. O. J. Monday, contract for men's pants at $\$ 5$ a pair. The contract for officers' caps, for gold letters, and for waterproof covers, was a warded to J. Martin, Sons \& Co., and for men's :o Dupuis, Lanoix \& Compauy.


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The success of the Canndian Engiurer las been unprecedented in the history of trade journalism in Canada, for not only was it enconraged and assisto from the start by able Canadian witers in the various branches of engineering, but it achicved what was still harder to accomplish-a sound financial position within the first year of its existence. The number of subscriptions received, and the number of firms who have sought the use of its advertising pages, have justified the publishers in twice enlarging the paper in its first year, and preparations are now being inade for a futther enlargement. It is hoped, by this increase, to make it twice its original size. White this will mean a large growth in advertiving patronage, it will also mean a greater variety of reading matecr and illustrations for our subscribers

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## HOW CRLLULOID IS MANUPACTURED.

Ifuman ingenuity has often copied nature with almast exact fidelity. Probibly chemistry abounds in more triumphs of the sort than any other science. It is to chemistry that we owe that most beautiful, yet deceptivo composition, the well-known substance -celluloid.

Made from such unpromising materials as paper and camphor, it is magically transformed into the beautiful composition by simple processes, easily described.

It may be mad to reprosimt tortoiss shell. ivory, sltk or glass ; clear, brilliant, of all the colors, yet fiexible as rubber How this is done is a question that has, no doubt, occurred many times to the reader.

The first operation in the manufacture of celluloid is the preparation of the unsized paper, this is pulped or shredded into strips about one quarter of an inch in width and then submitted to an acid treatment, which transforms it into cellulose. The operation is performed in a law building, the workmen of which are clothed in rabber, and who bear traces of the strong action of the chemicals used, their faces appearing ghost-like and ghastly. The paper is submitted to the acid bath in s:oneware vessels of large size for the requisite length of time, and is then removed and after repeated washings, dried by means of centrifugal machines; this removes the excess of water, but not the moisture, conseguently the cellulose is spread out on drying tables, where it remains for a considerable period. After thorough drying it is taken to the dehydrating building, where the process of composition may be said to start, as here is added the due proportion of camphor. This is done by careful weighing, mixing the two iagredients thoroughly, pressing in canvas jackets between plates and then crumbling.

It is now a rough-looking mass of what appears to be paper sibbons and soft white sugar, bat the characteristic odor of camphor advises one of its presence.

The next operation takes place in the roller or calender room, where the mixture is subjected to the grinding and pressure of masticators. These machines are simply heav; iron rollers about four feet long, set in a frame in a horizontal position, geared together to turn inward. About a bushel of the mixture is operated on at one time, and is technically known as a "batch." On watching the operation, one is surprised at the readiness of the mixture to form itself into a sheet, which, if left undisturbed, soon covers the roller The operator, however, cuts the sheet continually from the roller, turning it back into the insatiable jaws of the machine. As the grinding continucs the mass becomes mere and more homogeneous and near to the finished appearance of cellu. loid.

In about fifteen minutes the batch is finished and cut entirely from the rollers: it makes a sheet one inch thick, $90 \times 45$ inches in size. These sheets are piled one on top of the other until sufficient of the particular composition is uade to fill a heavy iron hydraulic form, into which it is placed after having been cut to fit. The form is then run under a steam heated hydraulic press, where it remains under heat and pressure for about two hours.

On removal the form is unbolted, and the "cake" is placed aside for a few days to season, before being cut into sheets of the desired thickness. These may vary from one thousandth of ant inch to an inch or more, and are cut from the cake by means of a fixed blade or "doctor," which is fastened to a beavy metal recip. rocating table, on which the cake is placed, the blade cutting the sheets from the cake during the forward motion. After cutting, the sheets are hung up in drying rooms for six months to season. celluloid having the peculiar warping qualities of wood if worked up without due regard to this fact.

From the seasoning room the shects go to the various departments of the factory. Those taken to the covelty department are cut, turned and pressed into any number of articles, cane and umbrella handles, brush backs, cuff and collar boxes, pencil cases, calendars, and a thousand and one things not usually suspected.

Other sheets go to the comb department, the collar and cuff buildiag, the stock room, and the printers. The comb department
usurlly requires sheets of considerable lisickness, cut from cakes of amber, tortoise shell and ivory composition. All three of these compositions are carefully made. and the imitations of the natural products are so faithfully copied as to freguently pass through the hands of experts undetected. It will bn interesting to watch the methods by which tortoise-shell is made, and we will return to the roller room for that purpose

The production of tortoise-shell, amber, ivory or translucent celluloid is always under the direat supervision of the foreman of the roller room. To make the first named of these compositions selected pieces of amber and black celluloid, that have previously been well seasoncd, are cut into cubes of about one inch in size. these are well mixed and then wet down with alcohol in an air-tight box lined with metal, and kept therein until thoy become soft and plastic. The operator then takes the mass, and by a fow turns of the roller converts the parti-colored cubes into a sheet. in which, as the operation continues, the two colors blend softly toward each other in the characteristic manner of tortoisc-shell. The success of the imiation is entirely a matter of experience and dexterity. To this sheet is added others, until a form is filled Subsequently the process is the sume as with , he othar compositions In making ivory the characteristic gram of that substance ir produced by cutting thin sheets in strips one inct wide and setting them upon edge, laterally, in the before mentioned form, which, on being filled, goes through the same proce is as the ordinary composition.

A word as to collars and cuffs. Contrary to the usual belice. the celluloid collars and cuffs have no linen surface That appearance is copied with such marvellous precision as to deceive even the dealers who have sold and handled the goods for years.

The texture effect is produced while the celluloid is still in sheet form. A square of linen is laid on a smooth metal sheet and on that is placed a sheet of the celluloid, on this another shee: of linen, and on that a metal sheet. This operation is duplicated until a pile six inches high is made, when the whole is slipped be. tween the plates of a heated hydraulic press, where it remains from five to eight minutes.

On being removed, the linen is stripped uninjured from the cellulnid, leaving thereon the exact impression of its woof and web.

The collars and cuffs are cut from the sheets with steel knivos made for the purpose: one man cutting as many as 1,000 dozen per day. The forming, printing and curling processes sequired to turn the finished collar and cuff are simple and expeditious.-Fabrits and Notions.

Tus correspondent of an English trade paper writes: " With reference to recent failures in St. John's, Newfoundland, we understand that Shirran, Pippy ic Co and John Stecr have made arrangements with their creditors. The details which have reached Manchester regarding the condition of affairs in the colony reveal the existence of a slate of things probably unparalleled in the commercial history of North America I am assured that had thirty or forty thousand dollars in specie been available at the critical moment, the present troubles would not have arisen As it happens, money is so scarce in the island that employees at some of the large warehouses have been paid in kind."

A dissolution has been registered by Emil Thouret, Michae! Fitzgibbon and F. Schafheitlin as Thourct, Fitzgibbon \& Co., and the two last named partners will carry on a wholesate fancy dry goods business in Montreal, under the style of Fitzgibbon, Schafheitlin \& Co.

Josern McCready, whose name was mentioned in our March issue as leaving the wholesale clothing house of W. 12 Johnston \& Co, Toronto, to stars business for himself in Bracebridge, died last month. leaving a wife and four children to lament his loss fie was well known in Hamitton, as well as Toronto. having formerly been in the employ of Sanford, Vail \& Bickley, and previously with Service \& Wyld, wholesale woolens. He came to Canada with the Rifo Brigade in $8 \mathbf{8 G r}$, and after leaving military service and sething in Hamilton, joined the 13th Battalion, in which he became a captain:

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