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For The Canadian Journal of Fabrics:
WOOL CARDING.
BX GEO. DASION RICE.
To grind the cylinder in such way as to "hook" the points of the wire is a disastrous proceeding, and one most dreaded by carders. Once the teeth are "hooked," only great care and skill can remove the defect. Of course some men become a little reckless or discouraged at times, and allow the cards to run with the teeth of the cylinder hooked. The card may run all right, but what is the effect upon the stock carded? The fibre of the wool will be quite badly torn as 2 result, and weakened. Why it will be torn is readily perceived, because the wool in passing through
the card becomes more or less entangled about the wires of the cylinders, and of the teeth of the cyiinder are smooth the fibre is removed all right, but if the teeth are hooked the fibre is broken or torn during the removing process. Broken fibres make poor roving, and poor roving means that there will be trouble in spinning the yarns; and if the yarns are not spun well, why the goods will be poor.

It is well known that broken fibres make weak goods. Hence many of the tender goods now on the market, the tenderness of which is laid to imperfect dyeing, or poor weaving, is often caused wholly by broken fibres, and these breaks in the fibre may be traced to hooked card clothing.

Card clothing wire is hooked by trying to rush the grinding process or by forcing the grinder too close to the clothing. Take a piece of steel wire in hand and rub it over a file. If you press the end of the wire hard upon the file there will be a little ridge formed around the end, and by drawing the wire through a bunch of wool or cotton several fibres will catch upon this ridge. Pull hard on the fibres and they will be torn or broken.

You have thus wrecked a half dozen fibres in a moment, but the millions of teeth in the cylinder of the card can wreck many millions of fibres in the same time, providing the teeth of the cylinder are hooked like the wire in your kand. Now if you take the wire and gently rub it over the file, the rouaded point of the wire will gradually disappear, and a square, even and smooth end will be made.

This gradual grinding cannot be well tried by hand, as it is something which should require several hours' time, but it illustrates the idea. Sometimes a carder tries to get a cylinder ground in an hour or two, so as to rush off a certain lot of wool, but nine times out of ten this hurry results in hooking the teeth, and then a day or two must be consumed, as well as lots of labor given, to getting the tecth back into shape. Whereas, if at the start a half day was allowed for the thorough grinding of the cylinder, and the emery wheel placed only close enough to the teeth so as to grind gently, yet effectually, the desired results would have been obtained.

Mill owners, especiaily those who have mills ranging from one to five set, are usually on hand in the workrooms when anything like a job of grinding the cylinder of the card is in hand These men generally
try to hurry a thing through, an is quite natural, for upon the way in which the machines are run, to great extent, dopends the financial success of the mill, and so they are anxious to keep the belt of the card on the tight pulley all the time if possible.

They do not like to see a card atand idle for a half day to allow a main cylinder to be ground, even though the grinding of the same may result in better and more work. They see that the stopping of the first breaker or the second for five hours means that the finisher must be stopped an equal time, and perhaps the mule will run out of roving and have to slop, and then the weavers will be crying for filling.

So the mill proprietor urgos the carder on, and the rarder tries to grind the cylinder in at hours instead of 5. and to do it he tries the rushing process, which consists in puttiug the emery close to the leeth ot the cylinder; then there is a grind, a buzz, a wear, and a terrible grating goins on all the time. The cylinder is ground in at hours, the card is started, the mule has not been stopped, and the weavers have not had to wait, and the manager is happy. Now for the results. The costly wool is run through, the fibtes are more or less torn, and although the work comes off, the goods made from this stock are not so good as regards substantiality as those made from the stock carder before the teeth were hooked by the racing process.

Only a few years ago days were consumed in grinding a card's main cylinder, and even now two or three days are needed to grind the first time, but modern machinery has come into use, and now the grinding process is done very quickly; but that is no reason why the thing need le rushed to such an extent that the wire points are made worse than before.

Give the carder plenty of time to grind, and it will pay in the end, if not in the beginning.

The best grinding is that which produces a point nearest in form to that of a needle point, and when a good ground point is once obtained it can be retained by the actiou of card against card in the working, as a card is the best sharpener of a card, when the machine is once got fairly to work. The stripper, properly set, keeps the worker in full point, and the fancy, properly set to work sufficiently deep into the large cylinder or swift card, will keep the point in good working order. The angle stripper will keep the doffer in point, except the last doffer, to which there is no angle, and which frequently needs a card-roller to keep it in point.

An essential consideration in producing good results from the woolen card, whether the cylinder be ground well or not, is employing a good lubricant. A requisite of oil, as an emulsion, should be a sufficient fludity to secure its thorough distribution, and it should have tody' enough to prevent its running when the stuck remains in bulk, also freedom from gumminess, and staying or non-evaporating qualities, and it must positively be devoid of any ingredients of a nature that would be injurious to the fibre of the wool or to the falric and in the treatment of the same. With all
the so.called wool lubricants, or, as they are commonls termed, emulsions, the several makers will wildly exclaim: "Ours contains all of these good qualities, and still more, if what they claim is true. There are quite a variety of oils on the market, and one must be pretty well posted in or ter that he may secure the best.

An oil must be used that will conform with the condition of the wool fibre. in order to ciean some wools thoroughly, manufacturers employ soda for the washing. Thereby a chemical process is carried out, since the soda combines with the grease contained in the wool, causing saponitication. Thus the wool-fat itself is rendered serviceable as detergent.

The grease or suint is then recovered flom clearing (settling) basins, in the same way as oil is recovered. and finally used for the manufacture of lighting gas. This washing method is very good, and especially efficient for these heavy and dirty classes of wool; but it is not to be overlooked that it renders the wools harsh and crisp. Applied to the fine Silesian wools, it would completely' ruin them.

In the two classes, Silesian and La Plata wools, we find as regards quality two extremes, the highest and the lowest grade of the Merino race. Besides, we find here also $t$ wo extremes as regards the condition of the clip, since the one requires the sharpest and the other the mildest washing process.

The Silesian wools are extremely easy to wash, and the old method of employing the steeping tub and the rinsing box is the best. The washing as formerly done was simple and little eipensive. The scouring bath consisted in 75 per cent. water and 25 per cent. urine or dilute ammonia, and was heated to a temperature of 48 to $55^{\circ} \mathrm{C}$. The wool was for 10 or 15 minutes soaked in this bath, and then rinsed twice in the rinsing box. With this treatment the quality of the Silesian wool remained better than with the application of the most laborious process. The low temperature of the suintbath prevents the felting of the wool, while its little strength is not injurious to the fibres, and the rinsing renders the wool clear, loose and open.

Now it will not do to use an oil in carding that will in any way interfere with the condition of wools thus prepared. Thus the carder has to remember that his oil must be right for the wool, both before and after carding. The lighter oils usually on the market are good, as there are combinations of stock that need but little, if any, lubrication. But for those that do require it, true economy can be better practised by using a smaller quantity of the better article than much of an inferior.

Water is used largely now by some carders, and with good results. Of course the water is used only in conjunction with the oil. Sometimes the stock is moistened with clean water, and can be kept in such condition through the working process, and but a very small quantity of good oil will be sufficient, and will give excellent results; and the fact of it is, for the proper manipulation of the wool itself, will give fairer

1. turns than if treated with some of the cheap and fatty cmulsion, which often becomes gummy, and so recarda the straightening out of the fibres of the wool, which bucomes so necessary.

Good water is noeded in this connection. For carding purposes an abundant supply of good water is cosential, and, except in rare cases, an independent s.urce of supply is almost invariably necessary, either fur regular or supplementary use, or for recourse in case ut emergency. The mill that would be up to date must, therefore, make the question of an adequate and reliable water supply a question of first-rate importance. The manufacturer who finds it necessary to increase his supply, or to provide against contingencies, will do well (1) avail himself of the highly scientific means which cugineers who have made wells and water supply their especial study, now place at une's disposal.

The two most approved modern methods of obtain. ing water supply by mechanical means are by the employment of driven tube wells or artesian bored tube wells. The former method, excellent so tar as it gnes, is applicable only where light soils and shallow depths have to be penetrated. It is not capable of being adopted where rocks or solid formations have to be pierced. For all purposes for which it is suitable, huwever, the driven tube system answers admirably for obtaining either large or small quantities of water.

With good water and suitable oil the carder can accomplish good results. A word may be said about muxing stock. If the carder receives the stock either from the wool scourer or the dyer in proper condition, and the carder is allowed, as he ought to be in all well regulated mills, he can-manipulate the stock in the preking room as he thinks will suit the carding, and no man knows this better than the carder himself, after the stock or batch has been picked and is ready to be transferred to the card room.

What the carder has to see to next is, that his cards are properly set, so as to card the stock properly without doing injury to the fibres; when he has got his cards into condition, the result will be good, even roping. It has been found to be profitable to have a llower in operation in the card room for the purpose of removing dust and flyings from the air.

I recently noticed an ingenious rig whereby the blower could be placed outside of the room where the arr was fresh, and chiefly where the noise of the blower was less annoying.

The blower was located convenient to the shafting overhead, and a shipper rigged to guide the belt at will between the tight and loose pulleys. Instead of the regulation shipper handle, a very small wire rope was attached to either end of the shipper bar and carried over half-a-dozen pulleys to where they hung from the ceiling, each attached to a 20 -pound sash weight.

A small casting on each rope, similar to those used on elevator starting cables, offered a good hand-hold when shipping the belt. The cables went through holes in a board shelf placed just above the sash
weights, thus keeping them from swaying around when pulled. A slide in the blower pipe close to the handles completed the arrangement, and the air blast was under perfect control.

## dYEIMG OF WOOL WITR ALIZARINES.

The competition between madder and the arxificial dyes began about twenty-five years ago, with the discovery of artificial alizarine by Graebe and Liebermann. It commenced in the cotton dyeing industry, and the great advantages of the artificial dye, as compared with the natural product, soon led to the complete abandonment of the latter, and to day it may be truthfully asserted that madder and its several preparations have been entirely discarded in cotton dyeing. Encouraged by this success, the manufacturers of these colors undertook so introduce the Alizarine Red into wool dyeing, and the first trials with Alizarine Red were made on a small scale in 1878, when it was used in France for the dyeing of red military cloth.

Alizarine Red was the only color of its kind for some time, but it was soon followed by a series of other colors of the sanie class: Alizarine Orange, Alizarine Blue, Galleine, Coeruleine, Anthracene Brown, etc.; and soon the competition was zenewed with the vegetable dyestuffs, which had hitheito held undisputed sway. This was true not only or madder, but of all other dyestuffs, as indigo, logl:ood, fustic, barwood, etc. In the course of a few years the number of fast tar color dyes increased, dyeing methods were improved, and new methods of employment were discovered as a result of innumerable practical experiments. It may be asserted that at the present day every dyer adheres more or less firmly to the Alizarine dyes, that is, if he has ever carefully tested them, for their excellent qualities may bo said to become convincingly apparent as soon as they are given a fair trial.

The conditions for using the Alizarine dyes to their full effect coincide in many respects with those to be observed in the use of other dyestuffs. The first and fundamental requirement, says Dr. Lehmann in a lecture before the Central Union of German woolen manufacturers, is the thorough cleanness of the material to be dyed. Every dyer knows well that insufficiently cleaned loose wool, yarn, or piece goods cause no end of trouble in dyeing. For instance, a vat-blue dyed on a badly washed wool has the intensity of its color largely impaired in rinsing and fulling, and it is very difficult to wash the dyed material so clean that it will not smut. Indigo is very sensitive in this respect, but the Alizarine dyes do not suffer nearly so much, because the mordanting process preceding the dyeing partly assists in cleaning the material. Nevertheless, a thorough scouring of the material is necessary, because then a smaller quantity of dye is required, and, again, the shade produced is far brighter and purer. Wool, in the condition in which it comes from the sheep, contains varying quantities of yolk and grease, besides me. chanically adhering quantities of dirt, e:crement, etc.
according to the nature and condition of the sheep and the treatment before back washing These impurities absorb a part of the dye in the dyeing operation. and retain it so that it cannot fix upon the fibres.

In order to render woil clean. it is scoured with soap and sodn, whereby a perfertly rean fibre is obtained, that is, if pure water is used in the manipulation. But the water obtained from rivers, creeks, springs, or wells is never entirely pure. It invariably contains larger or smaller amounts of lime and magnesia salts, according to the strata of the earth's crust through which it passes. These lime salts, especially the bicarbonate of lime, and the sulphate of lime (gypsum), linve the property of forming combinations with the fatty acids that are insoluble in water. These are the so-called lime soaps. The fatty acids present in the wool as soluble potash salts, as well as the soap used in the washing process, are partly converted into insoluble lime-soap by washing with calcareous hard water, and ran be only partly removed from the wool. white the residue absorbs the dyestuffs and produces the defects referred to As illustrating the effect of lime in wool washing, the results of three washing experiments will be given. Raw wool washed with distilled water suffered a loss of 45 F : cent.; with Rhine water of $8^{\circ}$ hardness a loss of 40 per cent., and with water of $25^{\circ}$ hardness a loss of only 35 per cent.

Loose wool is either dyed in this state and workea, or it is spun in an undyed condition and dyed in hank. In the latter case the carefully scoured wool must be impregnated again with an oil, to impart to it the necessary suppleness. But as this oil for obvious reasons must be removal again from the yarn, before dyeing it, care must be taken to employ a lubricant which can be readily removed without in any manner impairing the good quality of the wool. As is known, olive oil and oleine [elaine] are employed for this purpose. Oleine is saponified olive oil, which dissolves readily and completely in the alkalies (soda), and is then washed out from the yarn by the usual washing process. Olive oil, by heating with soda, is decomposed into glycerine and fatty acids, and thereby converted into the condition of being readily soluble in water. Another point in its favor is its capacity of forming an intimate mixture with soap solution-an cmulsion that can easily be washed out fron the yarn. Both of these lubricating oils, therefore, comply with all demands, and will not cause difficulties if correctly used. Unfortunntely, however, these oils are often adulterated with mineral ouls, which, although perfectly adapted for machine oils, are not at all appropriate for lubricating wool, because they are insoluble in alkalies, do not saponify and will not form an emulsion so seadily as olive oll, for which reason it is difficult to remove ther: from the wool. The same precautions observed in the scouring processes of yarn are also required for piece goods. As regards the washing process, it is evident that still greater care is necessary, because the fats and ampunttes cannot be taken out so easily from woven material as they can from yarn.

## STEAMING YARHS.

The action of steam on the wool fibre is abous the same as the murderous volts of electricity upon its victim, and there is a striking similarity in the swiftness of the deadly work. The best possible apph cation of steam for this purpese is dangerous, injurious, a positive evil, says a writer in an American paper.

Now take a fresh bobbin of a lot of yarn, just as it came from the spinner's hands, and compare with the yarn in the loom. For this test we will use a glass, and a frame in which quite a number of threads, from three quarters to a yard in length, may be subjected to about the same strain as the warp. On comparison there is a noticeable difference even without the aid of a glass, and the external form and body of the thread has undergone a very perceptible change; it is not so round, compact, nor firm. The glass confirms this and reveals the further fact that the fibres are more or less broken and otherwise injured. Untwisting and disentangling the filires of preces of several threads, we find them broken, swelled, and the scales started, showing much loss strength than those on the bobbin, which have not been subjected to the processes of dressing and steaming. And the large portion of the yarn shows the effect of excessive strain, and only those threads that have preserved a portion of their elasticity have "come off with a whole skin."

Now take a yard of the fresh yarn and stretch it to the breaking point, and mark the point of stretch at whici: it breals. Applying the same test to the steamed yarn, not to a single yard of one thread, but to a number of threads, and they are found to breais inches short of the unsteamed thread. In so far as we have affected the elasticity of the thread, to the same extent we have affected its life; and we have managed to get away with a goodly portion of that first element. We cosset the fibres until we get them into yarn, and then there is an apparent indifference as to what heppens to them afterward, so we get them into cloth. The fact, however, is that these evils are not generally known to their full extent. Could they be seen as they are developed, most probably a remedy would be sought and applied on the spot. Much has been and much more could be written on this subject, and yet its importance not realized; but these and other matters, now slightingly considered, are likely to be driven home to us.

Tue plucky empire of Japan is making rapid strides in textric manufactures, and it is probably only a question of a short time when that country will supply China with the class of cotton goods which the United States and Canada are now sending to the celestial kingdom. It is the opinion of the Indian Textile fournal that even India may be beaten out of the Chinese market, in cotton yarns at least. The coal bill of a Japanese mill is less than half that of an Indian mill, while wages in the Japanese mills seem also to be lower. The only question is whether China herself, as noted elsewhere, will start on a career in cotton manufacturing.

## Alpacas.

The Warehouseman and Diaper, of London, ob. .erves with some interest that alpacas, mohairs, lustres, ac., are coming to the front again for dress material, as ، result of the recent modifications of fashion. Soft -langing fabrics have had a long innings, and perhaps the only matter for surprise is that the cliange has not a.aken place before. Alpaca manufacture is of comparatively recent origin. A few bags of the wool were introduced into England as early as $\mathbf{x 8 0 7}$ by the British troops who had been engaged in the attack on Buenos dyres, but though the material attracted a good deal of attention, it was found intractable as a textile fibre, until a Mr. Outram, of Halifax, made an attempt to overcome the dificulty of spinning it, and eventually produced a fabric which sold at high prices for ladies' carriage shawls and cloakings. Other attempts, more or less successful, were made from time to time in Bradford, where the pieces chiefly fabricated from this material were "figures made with worsted warp and alpaca weft, the figure being raised and lustrous like union damasks." These, again, had only a short-lived yogue, and to Sir Titus Salt must be awarded the credit of finally overcoming the difficulty of preparing and spinning an even and true thread, and by combining it with cotton warps, he improved the manufacture so as to make it one of the staple industries of the country. This was about 8836 . The growth of the new manufacture was rapid, and Saltaire became one of the most remarkable manufacturing communities of the world. Alas for the stability of human affairs! Fashion changed, and when alpacas, mohairs, and lustres "went out," and the soft-clinging all-wool fabrics " came in," Bradford could hardly believe that it was anytining more than a passing whim, and for a long time the manufacturers were loth to alter their machinery and enter into vigorous competition with the French fur the supply of the more marketable material. All this, however, is in the past. When the Bradford manufacturers did wake up to the fact that the change was likely to be a lasting one, they proved equal to the occasion. Now there is another change, but how far the revival will extend, and how long it will last, are questions which nobody can answer.

## the scouring or fresh yolk wool.

C. Heinrich Loebner recently published in a German textile paper an article on scouring fresh yolk wools, which seems principally based ou the statements of a Hessian manufacturer who scours the wool in a different manner from the usual method. Mr. Locbner, supported by the evidence of Professor Krocker, shows that in the washing of wool as at present performed in mills it is altered more or less, and loses a certain percentage of wool substance, which, according to the strength of the lye and temperature of the bath, varies bet ween 2 and 7 per cent. of the pure wool substance.

Mr. Labner, supported by the results of his own experiments, then takes sides with Professor Krocker,
and says that it is a great error on the part of the manufacturer to call the perceptible loss of wool substance an apparent one, only to be made up again by a larger increase in weight in the spinning process. The portion once lost from the fibre can never be restored by any agent in the spinning process. Putrid urine alone also injures the quality of the wool substance, and it is well known that one of the ingredients of the urine that enters into the combination with the yolk, known as saponfication, is caustic ammonia. With pure concentrated ammoma the wool may be made so sof that with strong pressure and the presence of ammonia simgle scales may be peeled off. After drying and expelling the ammonia, the wool resumes its original state of hardness and elasticity. The wool substance cannot be dissolved entirely with ammonia. It is at best pos. stble to soften it. Concentrated potash and soda lyes, however, will quickly change the wool into a paste, especially at a high temperature.

German and French manufacturers prefer to use wool that has been stored for five or six months, because it is more easily washed after having been kept for this time. Besides this, the wool loses less of its lustre and structure, and becomes finer in every respect. Much fresh wool is at present wasted in Germany, and this als, appears to have been the case in England, only with this difference, that the Englisa wool washer tries to preserve the wool substance. In Germany the wool is scoured with cuncentrated lyes as well as at a high temperature of bath, without the manufacturer taking notice of the loss of the sutsrance and the subsequent injuries resulting from such loss.

Mr. Loebner is of the opinion that the practical English wool washer does not subject the wool to such a drastic treatment, and that the manufacturers of England use another method for washing fresh wool than that in use on the Continent. It is probable that the English method is identical with that employed by the Hesstan manufacturer, which consisted in scouring the .wool with finely gound china clay. This manufacturer speaks of the method employed by him as follows:-"I work almost exclusively German yolk wool. I occa. stonally use spinning-room waste only for back filling, and it is scoured in my mill, then carbonized and washed in the same manner as 1 treat the yolk wool. This nethod is very simple. The wool after its arrival is at once spread out, dusted with absorbing powder (finest ground clay), and mixed. The wool is then pressed into bales, more powder being applied during the operation, and the wool is then stored. When the wool is ready for use (in from three to four weeks) it is first openedthat is, freed of the greatest part of the powder, after which it is easily washed. The wool assumes a fine soft feel, andits color becomes very white, because the yolk could not exert its yellow-tingeing influence. If the wool is to le carbonized, this is performed after opening, and ther fore before washing the wool."

He furth. ${ }^{\circ}$ states that manufacturers preparing potash from the wool yolk, and not wishing to abandon it, cannot use his method, because the powder not only
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$\therefore$ sorbs the wool fat, but also the yolk with the same widity, and it is well known that the yoik is the raw muterial from which the potash is prepared. An at-t-mpt to use a clay powder of another locality for one .f his mills resulted in a complete failure, as did also a thial with fossil meal. The various kinds of clay must, therefora, contain different ingredients, but he was unable to give further data as to their indivicual consituents.

The writer of the article declares further that the method of cleaning spinning and other waste with luller's earth is not by any means new, and that he employed it forty yers ago, although not in a dry condition, but as follows: The waste was packed into a vat, and then treated with dissolved fuller's earth to make a fairly thick solution, so that the mixture forms a stiff, tough paste. The vat was piaced aside for iwenty-four hours, after which the paste had penetrated well. Workmen then went into the vet, and with their bare feet trod upon the contents until the waste had surrendered its grease and dirt to the clay. Specimen samples were taken occasionally. The waste was then carefully rinsed in running water, whizzed and dried.

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fergen, Vicuna, hionvers, Nape, Ulator Clothn, etc. Oasadian Manuffoturee:
HARRIS \& CO., Hockwood-Trieses, otc.


The method is of Belgian origin. The waste lxecomes very soft and open, and is, therefore, much better adapted for respinning than waste cleaned with sodn, which remains bard and brittle.

Jubaing by reports from New York and London, wholesalers anticipate a large sale of veilings this fall. In Paris bordered veilings in cream and beurre shades, and black and white effects, are selling heavily, while large advance orders have been placed for veloutine goods.

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## For The Caradiax jourxal of Eabrics:

## COTTON CULTURE AND TRADE IN JAPAN.

BY PROF. P. L. SIMSONDS, LONDON, BNG.

Singularly enough, cotton was introduced into Japan before it was cultivated in China, at least a cen. tury previous; but it was not successfully acclimatized till a comparatively recent period, and evan now it does not produce enough for local consumption, the annual production being about 94,800 tons, and the imports over 40,000 tons.

The largest factory in Japan is, we believe, that at Kagoshima, established in 1866, worked by water power, and employing about 400 hands. There are many also at Sakai, Oji, and cther plagces; and there are about 500,000 spindles, working up yearly over 280,000 tons of witon, and employing 10,000 operatives.

The use of cotton fabrics is very general among the lower and niiddle classes, silk being patronized largely by the upper classes. The population of the Empire exceeds that of the United Kingdom by three or four millions.

The production of cotton in Japan, in 1887, was as follows, and there is but litile change in crop, distribution, and production from year to year.

| Niphon Central | Ares, acres. $120,485$ | Product lbs. $77.141 .783$ |
| :---: | :---: | :---: |
| Northem | 8,311 | $3,354.842$ |
| Western | 94.733 | 93.854,071 |
| Shitsoku | 9.363 | 11,775,269 |
| Kion-Sion.......... | 8.535 | 3.529.379 |
|  | 241.317 | 189,055.344 |

The followirg were the imports of raw colton, and yarn and twist, according to the Japanese returns in the years named. The weights are in catties of ił lbs. and the value in yens, which vary much, varying from 35. to 3 s . 9d., but the average value may be taken at 3 s .6 di .

| Rexp Coston. Cation | Yialue. Yoo. | yarc. Cattices |  |
| :---: | :---: | :---: | :---: |
| 1832.... 3.309.796 | . 467.050 | 25.297,100 | 6,562,000 |
| 1833.... 2,306,261 | 248,000 | 24.640,624 | 6,:65,400 |
| 18S $\ldots \ldots \ldots+5+2.522$ | 561,000 | 21, 356.798 | 5,153.000 |
| 1855.... 4.399.489 | 602,000 | 21,397,3S0 | 5,190,000 |
| 1856.... +6.043.338 | 618.000 | 24.630.356 | 5,905.000 |
| 1557.... 5.570.615 | 712,000 | 33.296.530 | 8,235.000 |
| 1S88....11,S93,267 | 1,655,000 | 47.454.304 | 13,603,000 |
| 1859....23.165,094 | 3.164,000 | 42,87S.812 | 12,593.000 |
| 1890 ...26.084.3i5 | 4,135.000 | 31.976.521 | 9.958,000 |
| 18.91.... 50.128 .750 | 6.999.000 | 17.436.962 | 5.673 .000 |
| 1S92....988,647.573 | 18,027,000 | 24.160,171 | 7.253 |

The value of the cotton in manufactures imported in these ycars was as follows, in yen:

| 1852........... f.219.000 | 25S5......... 4.700,000 |
| :---: | :---: |
|  | 3SS9.......... 4.672,000 |
| :S54, ......... $2,468,000$ | 8890.......... 4,132,000 |
| 2555.......... 2,572,000 | 1S91.......... 3.42S,000 |
| 2856.......... 2.293.000 | \&S92........... 4.668,000 |
| 3S57.......... 3,333,000 |  |
| of cotton manufac of the imports in | the following we ds sterling, for the |


|  | Grey Shirtings. | Allother kiads. |
| :---: | :---: | :---: |
| 1882 | 6455,062 | £336,000 |
| 1883 | 191,300 | 310,200 |
| 1884 | 150,000 | 295.550 |
| 1885 | 200.525 | 266,175 |
| 8886 | 148,400 | 252.875 |
| 1887 | 180,250 | 350,450 |
| 1888 | 349.950 | 130.950 |
| 1889 | 301.650 | 155.300 |
| 1890 | 279,012 | 392r437 |
| 8898 | 276,160 | 295,160 |
| 1892 | 259,050 | 442,150 |

The value of the British exports of colton goods and yarn to Japan have been as follows:

| 1882 | Yam. | Cotton Goods ( 10.199 |
| :---: | :---: | :---: |
| 1883 | ...... | 15.132 |
| 188 | 6835,620 | 567,911 |
| 188, | 455.704 | 506.784 |
| 1886 | 534,232 | 395.988 |
| 1887 | 830,004 | 728,393 |
| 1838 | 1,007,063 | 816,030 |
| 1889 | 1,042,193 | 879.960 |
| 1890 | 933,205 | 736,962 |
| 1892 | 645,215 | 719.323 |
| 1892 | 839.474 | 819.979 |
| 1893 | 851,350 | 747.778 |
| 8894 | 662,846 | 754.456 |

## SILK FIMISH FOR COTTON FABRIC.

A French publication describes a method of coating cotion and linen fabrics with silk, thereby imparting to the former a beautiful lustre and soft féel and finish.

The solid framework of all vegetable fibre is composed mainly of a chemical compound, called cellulose. Any cellulose tissue may be treated successfully by this system. The yarn or woven goods is first run through a bath of strong sulphuric acid or caustic potash. If there be any animal fibre intermixed with the cellulose, the acid bath is preferable. By compressing the material with rollers the air is forced out of the pores, and the liquid is more readily absorbed. Then, after going through a washing machine, the cloth is dried under teasion to keep it from creasing. The tissue has now not only been freed from certain impurities and become whiter, but its nature has been slightly modified.

Another bath is prepared, in which silk waste has been dissolved. The liquid used for this purpose is a solation of very pure hydrated oxide of copper or nickel in ammonia, although here again an acid may be used instead of an alkali. Special provision is made, through water jackets, for keeping all these liquids cool. The temperature must be maintained at or below 45 degrees Fabrenheit. At length the goods to be coated are rua though the silk solution, and squeezed as before to exclude air and aibsorb the liquid. The silk thus penetrates all through the cellulose. In the next drying the cluth loses the ammonia, which is carefully recovered in the for:r in vapor, condensed and used again.

It is now necessary to get rid of the copper. The material is therefore soaked in a weak solution of an acid having a special affinity for that metal, and forming therewith a salt which easily dissolves. After fresh
washing, then the cellulose is left with a coating of silk and nothing more. If this first coat is not as thick as is desired, a second and third may be applied, and then the silk-faced tissues are mechanically finished by beetling, calendering, brushing, polishing and pressing. If any dye is to be imparted to the goods, it is used just before they are immersed in the silk solution.

## THE WOOLEN MILLS.

Representatives of the leading woolen mills have been in Montreal and Toronto this month, making a preliminary skirmish for orders for next spring's goods. There is a general feeling among woolen manufacturers that an advance in prices is necessary. Prices last year were reduced by the mills, in many cases without real necessity, and the great majority of mills were, and are still, working absolutely wihout profit. Now that the prices of the staple raw materials of wool and colton have gone up, the mills must either advance prices for their own goods or lose money; and yet, so far, no advance has been made. There has been talk of issuing a circular by some firms, and others talk of inducing the community of woolen manufacturers to combine on the principle of an advance, leaving the amount of the advance to be determined by each for himself. The fact is tbat the woolen manufacturers as a body lack two things-they are wanting in cohesion and backbone. There is no earthly reason why the Canadian woolen manuiacturers should not immediately get an advance more than corresponding to the recent rise in raw material (especially since foreign woolens have gone up), and if they do not they have only themselves to blame for it. The woolen manufacturer is not an adept at the game of bluff, when it comes to selling goods, while the wholesale dry goods buyer is. The manufacturers may be led by these able gentlemen to suppose that they are getting orders out of charity or pure philanthropy and good-will towards the home manufacturer. As a matter of fact the goods are bought because the Canadian consumer wants them, and because-notwithstanding the talk of the beauties of foreign goods-they fill a distinct want in the trade. If the Canadian manufacturer realized and acted upon this and showed a little stiffer spinal column, he would get plenty of orders at decent paying prices. Nor would the wholesale houses be any worse off for the rise, but rather better off. But as long as the clever dry goods buyer can use the Canadian mill to carry out his ideas in " leading lines," and as long as the mill owners remain invertebrate as they are, we can expect no improvement. If the woolen manufacturers cannot make a formidable combine (which is perhaps not really desirable in the general interest), they can at least take each a stand upon his own account on the principle that they are giving value for their products. We venture to say that if half a dozen of the leading mills made a determination to advance their prices there would be a general rise in the market value of Canadian goods before another month. Will they do it ?

A nas kind of cloth is being made in Lyons, France, from the down of ducks, hens and geese. Seven hundred and fifty grains of feathers make rather more than a square yard of light and very warm waterproof cloth.

Latest cable advices from England show that mohair goods are still going up in prices, especially for the better grades, while letters from Roubaix, France, staic that reprat orders for cashmere goods can only be accepted cono :onally on an advance of $7 \frac{1}{2}$ per cent.

As one of the evidences of a revival of silk we may mention that the value of the exports of the manufactures of silk from Frince, in the first three months of 1895 , has been $71,557,000 \mathrm{fr}$., agaunst $62,788,000 \mathrm{fr}$. in the corresponding period of 1894. For the same quarter, the value of the imports of manufactures of silk in France has been $12,646,000 \mathrm{fr}$. in 1895, against 10,438,000 fr. in 1894.

As noted elsewhere, fashion in the old country has taken a most decided turn towards mohair, alpaca silk and similar goods of lustrous weaves, as against soft clinging fabrics that have been in vogue during the past two or three years. Bradford manufacturers are working on positive orders that will keep their looms running for a year to come, and the advance in wages owing to the demand for night work has been quite remarkable. Alpaca and mohair have been of course steadily used as linings, even while the material was out of fashion for other purposes, but now the demand is for dress goods, and it is safe to say that io yards are now being sold where oae yard was sold last year, and at more than twise the prices of 1894 . We mention these facts in order to suggest that Canadian manufacturers should be on deck to take advantage of this shifting ot the breeze of fashon, which is almost certain to be one of long contanuance. There is no reason why something could not be done in some special lines in this way in Canada.

A Japanese Exhibition has been opened at kioto, where various manufactures, including fibres, textiles, leather, machinery, hosiery, surgical and scientific apparatus, hardware, glassware and chemicals, are displayed at prices which are reported to "defy competition." The " native visitors study the exhibits eagerly, confident of conquest in the industrial world," so says a correspondent, and there are many signs which support the presumption that in due course of time Europe will be assailed with a systematic compctition from Japan. The rate of wages is mach below even the remuneration of German workers, and the deftness and skill of the Japanese is frequently a subject of comment by visitors to Japan. One thing which may affect the march of Japan's industrial progress is the development which China may make in consequence of the opening up of that country to the commerce of the world, as a result of the war settement. For instance, every few days we read of the departure of ships from the Manchester Ship Canal laden with cotton machinery destised for Wuchang, a place that is becoming a sort
of Chinese Lancashire. When it is remembered that it is only about five years since the first cotton mill was permitted to exist in China, this revulution means a good deal. It is awakening great interest not to say alarm, in the English cotton manufacturing centres, and it will affect America, too, for it is hard to see why the Chinese, with their cheap labor, will long continue to import their cottons, once thes get started on mill work upon European methods.

Probably no raw material, if we except fiax alone, has been subject to more atudy and experiment in recent years than Ramic. The beauty and silkiness of this fibre and its marvellous- strength would make it without parallel as a textile fibre if the stalks of the plant could only be decorticated or degummed with economy, but the saymg of Longfellow that "Art is long and time is fleeting," is well exemplified in the case of Ramic. Almost every month some new process is heralded as the solution of the difficulty, but so far these processes when carried out on a commercial scale do not bear out the hopes of first experiments. During the past month a new process reported from Ergland, another from France and a third from South America, have been announced as thelong sought for solution. We trust the hopes of the inventors will be realized at last. If they should be, the discovery will be very timely, for Ramie fabrics will be quate in line with the present trend of fashion.

## Textile ${ }^{\circ}$ Design

## NEW DESIGNS IN MEN'S SUITINGS.

Fir men's suitings, says a German contemporary, from which the following designs are taken, heavier, locsely iwisted, so-called flock yarns Nos. $3^{2}$ to $7^{\circ} \mathrm{EB}$ for warp are at present used, and if suitable, single filling of a size corresponding to the warp. Crepe and armure is ings, especially 4 or 6 harness twills, are the weaves leest suited. The eloths manufactured from these yarns are of a strong medium quality, and although requiring much material, they are proportionately still cheap, because the heavier yarn favors quicker weaving, fewer tearings of ends occur, and burling expenses are reduced to a minimum. Beside this the finishing is much cheaper than for cloths of finer yarn. These points are of considerable importance, and cloth manufacturers are more and more turning their attention to these styles of weaves.

The manufacturer should endeavor to get up a nice large collection in vigoureux or mixtures, and of cuarse, the quality of the material used for the yam is of great importance. His attention should next be directed toward the cluseness of the warp and proportion of tilling, so as to produce a clear design. For weaving
 gi, are used, and corkscrew-bike tyings are employed most. Narrow, mokest dsagonals appear to again comply with public iaste. Color combinations are but
rarely used, so that plain, single colors in mixture, vigourcux, or moulinet will be almost the only lines in the collections. Nevertheless, the designer has ample choice left among the many always well-liked tindings, and he should be able to get up a handsome cloth. When cloth of a better quality is to be produced, napped goods will be likely to be ready sellers.

Cluth with nap finish should be drawn in at a good breadih, and very loosely woven, so that it can be milled fairly forcibly before being teazeled. The designer should provide for a shrinkage in milling of at least 20 to 25 per cent. both in length and breadth.

In the same manner, samples are at present shown in "English yarn," and some very nice ones have been seen. The following diagrams show the style of some of the above mentioned qualities:

## FOR FLOCX YARNS.



Warp: 4,000 ends.
Vigoureux sh, shom bare.
Length of reed: about 1.050 millimeters [ 65 inches]. $60_{5}$ dents per 1,000 nillimeters [ 30.37 inchesj : 3 and 4 ends per dent
Filling: like warp. 25 pieks per 10 millimeters [ 0.30 inch]. Wash, shear bare, etc.
fOR NAP FINISH.


Warp 6,600 ends.
Vigoureux jx, shom bare.
Full breadth: about 1,800 millimeters [ 70.87 inches]. 1.055 dents per 1,000 millimeters: 3 and 4 ends per dent.
Filling: , 150 o to 32 picks per 10 millimeters.
Shrink from 20 to 22 per cent. in length, and 1,420 milimetres [ 55.91 inches] in breadth.

Teazel hearily and shear short.
FOR EnGLISII Yarn.


Warp: 3.200 ends.
Moulinet if, shorn bare.
Full breadth: about 1,650 millimeters.
500 dents per 1.000 millimeters, \& ends per dent.
Filling: like warp, ${ }^{21}$ pichs per 10 millimeters.
Mill so per cent. in length and $1, q 20$ millimeters in breadth.

## SEA ISLAND COTTON.

Reports have recently boen given circulation that Egyptian cotton is making seriousinroads into the markets hitherto controlled by Sea Island cotisn. An inquiry among cotton merchants, says the New York Yournal of Commirrec, failed to show such a condition, though it is believed that imports of Egyptian cotton this year will be heavier than in any previons year. The following shows the imports of Egyp:ian cotton into the United States for seasons ending August 3rst:

|  | Balos |  | Bales. |
| :---: | :---: | :---: | :---: |
| 1557.8S | 5.792 | 189r 92........... | 27.739 |
| 18is-S9 | 8,430 | 1892.93. | 42,475 |
| 1889-90 | 10.470 | 1893.94. | 33.606 |
| 1890-91 | 23.790 | 189+95 to date .. | 47.000 |

The following table shows the total crop of Sea Island cotton, and its disposition during recent years:

| Srasom |  |  | $\begin{gathered} \text { Exports } \\ \text { 10 } \\ \text { Costinoat. } \\ 1,915 \end{gathered}$1,915 | TakanbyUS Spinner 19,550 |
| :---: | :---: | :---: | :---: | :---: |
|  | Batios |  |  |  |
|  | 39.479 |  |  |  |
| ISSS.S9 | 44.089 | 28.585 | 1,8t1 | 20.152 |
| 259 Cos | -6.803 | -5.991 | 2,258 | 19.12 |
| 3S93-92 | 6,133 | 34.300 | 4,8=3 | 26,602 |
| 3592 | 59,134 | 24.778 | 2,653 | 32.2 |
| $1{ }^{5} 93-9$ | 68.052 | 33.35s | 4.636 | 23.5 |

Reports indicate that the new crop will probably be equal to If it does not exceed that of last year.

There was a larger number of dircet shipments of Egyptian cotton to the United Stater during the season of $289=-93$, but it will be no:icod that there was a material decrease last year. Mir. Alfred

Thepperson. in his "Cotton Facts," states that the importation of Epyptian cotton is increasing, and, for obvious reasons, it does not conflict with American cotton, indeed the use of it is beneficial, inasmuch as it has developed a proftable business in manufactures for which American cotton is not so well suited

Egyptian cotten has a long, strong silky staple rangiog from 135 to 19 inches in length. It is especially adapted for thread, fine varn, fine underwear and hosicry, and also labrics requaring a smooth and high lustered surface and finish. Egyptan cotton is also used extensively in cotton warp silks, and it is chamed that printed goods manufactured from this cotton hold their color longer than fabrics manufactured from American upland cotton.

But the Sca Islands of South Carolina produce even a finer grade of cotton than is grown in Egypt.

The crop is more extensivethan the Sea Islands of the Atlantic coast.

Mr. Freely, Chalrman of the Committee on Information and Statistics of the Cotton Exchange, when questioned, said that the Sea Island cotton requires a rich alluvial soil which is only afforded in small distriets along the attantic coast, and was the same as any other grade of cotton which requires certain climatic conditions and soll. He said furtber that there had been no reduction in the crop, but on the other hand a material increase had taken place during the past three seasons and the crop was too valuable to restrict.

A member of one of the largest cotton exportiag firms in the market said there is always a good market abroad for Sca Island cotton, but that unfortunately its production was restricted, otherwisc this grade of cotton would in itself provide a very profitable trade. He said that Egyptian cotton does not compete, but only fills the place of Sea island cotton after the supply of the latter has becn exhausted.

## ALJZARINE BLUES AND VIOLETS.

Of special interest to wool yarn dyers is a sample card issued by A. Klipstein \& Co., 122 Pearl street, New Xork, containing dyeings of the following colors: Alizarine Blue C G, C B C R , B and G A, and Alizarine Violet. Other colors shown are Fast Violet 13, Fast Brown, Fast Blue, Fast Chrome Black and a combination shade of Alizarine Blue C G with Alkali Violet. Four shades each of the blues and violet are shown, and the mordanting hath is composed of bichromate of potash and tartar.

This firm call attention to the fact that chrome fuoride may be used as a substitute for the bichromate of potash, and using oxalic acid in place of the tartar. The shades produced on this new mordant with the alizarine dyestufts, and particularly with the blues above mentioned are, they state. rendered faster both to fulling and milling. and at the same time fuller and purer in tone, while the danger of uacven dyeing and over-chroming is not so great as with the bichromate of potash. For one dip dyeing they also say that the chrome fuoride may be employed to advantage with the alizarine dyestuffs in a single bath.

## THE WOOLEN INDUSTRY OF NEW SOUTH WALES.

In the bulky but well-arranged volume on the "Wealth and progress of New South Wiales," written by T. A. Coghlan, the Gowernment statistician, appears an interesting table showing the num: ber of woolen mills in the colony, the number of employds, and the quantity of cloth manufactured. The table shows that as far as the mother colony of the Australian group is concerned, the attempt to establish the manufacture of the goldea fleece in the district where it is produced has been a failure-a fact showing that it does not recessarily follow that the district where raw material is produced is the test in which to manipulate it In 1882 there were 395 operatives in the New. South Wales woolen mills, eight in number. Since then the general tendency has boen one of decline, and the number at preseat is $\mathbf{8 5}$, divided amongst five mills. The quantity of cioth produced amounted in $3 S 82$ to 319.255 yards in iSS 3 the quantity was 352,000 yands. Since that year the output


1886, 324,000 jards. 1887, 348,000 yards. 1888, 241,00) jards. 1889, 207,000 yards. $18, y 0$, j10,000 yards, and sig2, 202 ano yarils It is interesting to note in this connection that the ntlempt to natab lish a boot industry in the colnny has been mucls more successful. the number of hands having increased from 2.03tio in 1852 to 2,708 in $\mathbf{8 9 2}$. In view of the results which have accompanted the efforts to establish the woolen industry in New Suuth Wales. it will be re membered that Mr. Reid, the Premier, won the last elections on the frec trade issue, and is pledged to remove the futies imposed at the instance of Sir George Dibbs a few years ago This pledge he intends shortly to redeem.

## DRESS IN THE TIME OF HENRY VIII.

In the history of John Winchromb, or Witcomb, the famous clothier, called Jack of Newbury, he is deseribed as going to Henry VIII. dressed in a plain russet coat. a pair of white kersie sloppys. or breeches, without welt or guard (i.e. lace or lorder), and stocknes of the same piece, sewed to his slopps : and his widow, in the same work, is described, after having laid aside her weeds, as coming out of the kitchen in a fair train gown stuck full of silver pins, having a white cap on her head. with cuts of curious needlework under the same, and an apron before her as white as driven snow. Her wedding dress is also specified in the same history in the following manner. the bride, being habited in a gown of shoep's russet and a kirtle of fine worsted, her head attired with a billinemt (habiliment) of gold, and her hair as yellow as gold hanging down behind her, which was curiously combed and plaited according to the manner of those days, was led to church by two boys with bride laces, and rosemary tied about their silken slecves. The maidens employed in spinning are said to have been dressed
" In fetticoats of stamel red
And milk-white kerchers on their head,
Their smock-sleeves like to winter's snow
That on the western mountains flow, And each sleeve with a silken band
Was fairly tied at the hand."
Here we have the first mention of the petticoat in the present sense of the word, and henceforward we find it used synonymously with kirtle.

Articles of dress at this period, even among the middle ranks, were frequently bequeathed in wills. Wm. Cheryngton, yeoman, of Water-beche, August 14, $15 f^{\circ}$. leaves "to my mother my hotyday goinne." Nicholas Dyer, of Teversham. Oetober 29. 1640." to my sister, Allee Bichendyke, iss 91. Which she owed me. t:oo kerchiofs of Hollind." Sc John Holden, rector of Gamlingay. October 29. 25 ft . leaves to Jone Grene " my cluthe froik linal with sattin of cypress." These entries are from wills in the Ely registry.

Howe, the continuator of Stow's Annals, informs us that many years prior to tine reign of gueen Mary (and therefore as carly as the sime of Henry VIII, at least) all the apprentices of London wore blue cloaks in summer, and in the winter gowns of the same coler, blue coats or gowns being a badge of servitude about this periol. Their breeches and stockings were usually made of white broadcluth, " that is round slopps or breeches, and their stocking; sewed up close thereto, as they were all but of one piece" The "city flat cap," so often mentioned by writers of the time of james and Charles, was probably the cap of ledward Vl.'s time. worn by the citizens long after it had gone out of festion at court. When apprentices or journeymen attended upon their masters or mistresses at aight, they went before them holding a inntern in their hands, and carrying a long club upon their shouiders Some ap. prentices wore dagerers in the day-ime, behind or at the side Sir Walter Scout has drawn an adminable picture of the brawling prentices of James' time from these materials in his. Fortuncs of Nigel." In 15tt. Sir Wm. Iaxton, the Iord Mayor, write for the first time the rich collar of gold presented to the city by Sir; Allen, the previcus major, for the use of all the succeeding mar ors o! London.

## TESTS FOR SILR

The first thing to do when you want to test the quality of a sample of silk is to try to tear it both lengthwise and crosswise. If It gives way readily in either direction, be sure elther that the dyo has destroyed the atrength, or that the thread is composed in part of what is technically known as silk waste. Pure silk, properly dyed, is the atrongest known fibre. Nearly all the cheaper dyes, priticularly the dark and black ones, have a basis of metallic salts that cat into and weaken what thoy color. Next test the firmness of weave by scraping diagonally ncross the fabric with the thumb nall. If it is durable and worth buying the threads will not slip for any amount of manipulation Otherwise, the thumb nail will soon make a space of loose threads as big as itself. After that ravel out a bit of the silk and look carefully at the quality of both warp and woof. Sometimes a pure silk warp has heavily loaded woof. At others, especlally in sutin weaves, so much of the woof as comes on the surface is of pure silk, with inferior backing. Tho pure silk, unloaded, is of a lively lustre and very soft to the touch. If the lustre has been artificially produced, the fibre feels harsh aud brittic If it is silk, but loadod with metallic dyo. the fibre looks like cotten. but is somewhat softer.

Another test of geality is to pull cut threads both ways and try their strength betwoen your ingers That is, catch them with both hands about an inch apart, give a quick outward jerk, and noto the force necessary to brak them Then try to tear the silk along the lines that the threads come out of If it parts so difficulty that there are puckers along the tear, it is prool that it will wear decenily well.

The most valuable of the tests for elther weighting or adulteration of fibre is to ourn a fragment of the sample, and also some ravellings of It. If it is pure and properly dyed, it will take fire with difficulty, even when beld directly in flame. It will go out almost as scon as the fame is withdrawn, leaving ashes that are nearly jet black. On the otber hand, weighted silk is almost dangerously inflammable. It takes fire readily, and once burning, will smoulder through the piece, leaving ashes that keep the shape of the cloth, and are of a light ycllowish.red color. If there is cotton mixed with the fibre, the smell of the smoke will betray it. The requisites of a thoroughly good silk are strength, smoothness, lustre and richness, without weight, no matter how thick the texture. Adulteration invariably causes a harsh feeling in heavy weaves, such as brocade. it is particularly important to see that the foundation is of sound, firm silk, as otherwise the fabric will not repay the cost of making. The writer, of course, refers especially to silks that are sold as "dress goods." For drapery and upholstery one selam wants to buy pure silk. a well-made mixed silk and woolen fabric will not only usually last longer than pure siik when applied to furnture, but it will liang better when used for curtains or porlieres

## FIBROLINE YARN.

The L'S. Consul at Bradford, Eng, writes as follows regard. ing this product

Manufacturers will, no doubt, be interested in a new product callen "Fibroline yam" A company with a large capital has just beea incorporatad here to carry on its manufacture. The yarn is produced from what has hitherto boen regarded as useless waste, viz, the noils crostod in hemp and flax spinning works Experiments have been carriad on with the gew process for some time in this district, and have resulted in the incorporation of a company, as noted above.

The raw material is a very dirty waste, containing, however, a large proportion of fibres of various lengths, but the difficulties enceunterad in treating them have hitherto proven so insurmountable that tho wasto - which is produced in enormous quantitecs in t'later and on a still larger scale in Ielgium and Italy-has toen useat chiefy as 2 materal fur making paper. The introducthen of wool fulp and the extraondinary expanaion of the woodpulp industry in Eanupe have. bowever, almost ousted it as a papermaking raterial, and, as a resul:, the price has fallen to about \$40
per ton, or less than 2 ceats per pound. It may not be generalls known that in spinning flax the fibres are kept wet, and the first and all-important departure made by the inventor;'a BeigianFelix Victor Max Raabe-was to treat the fibre as wool is treated. spinning it dry and using oil in the process. To do this, he found that the appliances used for treating short wools wero not in them. selves sufficient, and the result of his experiments has been the adaptation of the carding, condensing, and spinning mules of the woolen trade to the peculiar requirements of his rather intractable material, which adaptations and inventions are the subjects of various patents, two in particular, which have been secured in Eogland, France, Belgium, Germany, Austria, and Canacia. In effect, the processes are practically a combination of the systems of cotlon and woolen yarn spinning, with, however, some peculiarities not found in either.

The yarns produced are either single or folded, as may be required, and aro mainly thick counts, it not baving been found advisable so far to spin higher than iwent:cs. These yarns, samples of which I have seen, are wonderfully segular and strong. and they can be used for any purpose for which similar vegetable. fibre yarns are now employed, as, for instance, in the weaving of linen "hardens" for aprons, for warps and wefts of Brussels and other earpets, and, although primarily the object of Mr. Raabe has been to deal with flax, hemp, and jute waste, his system tas been found equally applicable to that troublesome, yet tempung. material-Rhea fibre. The principal and immediate demand for "Fibroline" yarns is expected to come from the earpet manufac. turers. Partly owing to their cheapness, and partly for other reasons, cotton yarns have recently been extensively used for the bachs of earpets, notwithstanding that linen yarns, which were invariably used in former years, are admittodly superior to cotton in durability and other qualities. The дew yaru has been tested by several Kidderminster manufacturers, and found to be in every way suitable for their needs, while its price is lower even than cotton. Indeed, the syndicate which has hitherto controlled Mr. Raabe's system has already received large repeat orders. It is the intention of the company to erect a carding and spinning plant in this district forthwith, to produce the "Fibroline" yarns on a commercial seale. .

## TRE AMERICAN COTTON CROP OF 1895.

Tbere can be no doubt that the acreage planted to cotton in 1895 is less than it was in r894. Still another fact equally apparent is, that this condition represents the prevailing tendency in every State, though that of course does not mean that every planter in the South has seeded less land to cotton than a year ago. A good many planters are successful men who never plant more than they can comiortably manage. They are cautious even when cotton is high, so that if it happen that their crop meets a very depressed market, they can use their judgment about selling or holding. As a rule, that class has planted just as much this year as it did last year, except it may be in cases where the weather has interfered: but neither the weather nor anything else interferes much with the plans of that kind of men.

Certain well-known conditions must cont ol acreage. The large majority of planters are usually disposed to put as much land under colton as they can command the labor, mules and supplies to do it with. The argument is the natural one, that af they can clear ten dollars more an acre, the greater the number of acres they plant, the larger their income will be. Hence it is that planting ordinarily goes on increasing year after year. But the past season has left an unfortunate experience, which, as we all know, does not faver any disposition of that kind. indeed, the price received for the crop has been so low that the argument is reversed, for by far the greater number have found that the more acres pianted the greater was the loss. Then, 200 , there $i s$ the other condution which helps to regulase the extent of the seeding, which is money, and this likewise has not only been decidedly unfavorable to the carrying out of the usual enfargement, but has enforcedicontraction. Finally, weather during the planting season has more or less effect, according as it facilitates or hampers the requisite work. This year has
$\omega$ acted adversely in some States, more adversely than the same .nditions would have acted hail there been less of discouragement , the other surroundings.

The price of cotton has advanced materially since the carly pring, and moreover, spinners' takings have increased in Americi. .Whice the promiso is that they are likely to inerense also in Europe 'uring future months. No doubt, too, this change bas had a coniderable effect upon planting, had the carlier conditions been pro..nged up to tho present time, the year's acreage would have been much less than it now is, for a most decided inclination prevaited in all sections not to put fresh money into cultivating cotton, inasmuch as most sections could buy the staple cheaper than they could raise it. Tbat fecling has, of course, been to some extent modified by the later developments with reference to the value of this raw matcrial, and yet the year's experience is too recent to be torgotten at onee, and the money-lender would not forget it even if the planter couid.

Fiom the detals by States we sum up our conclusions briefly. as follows:

First, notwithstanding the modification of early intentions by sume as a result of the upward movement of prices in April and May, the aggregate decrease in area has been quite large. North Carolina has apparently made the greatest reduction. The smallness of the decrease in Florida is due to the more extensive plantmg of Sea Island cotton. In the Gulf States the decline ranges from to per cent in Mississippi to 14 per cent. in Lluisiana. Texas records a loss of 12 per cent. ; Arkansas 12 per cent. and Tennessce 0 per cent. Oklahoma stands alone in showing an increase in area. The changes this year, as we make them up for each State. have been as follows:


This shows a net decrease compared with 1894 of 12.6 per cent., making the total $17,767,603$ acres in $\mathbf{8} 95$, against $20,207,247$ acres is $\mathrm{I}_{924}$.

Second, as to the maturity, cultivation and condition of the plant, the results reached are as follows:
(i) As to maturity, the crop is unquestionably a late one; the spring opened late, delaying planting, and the weather, up to about May 27, was not as a rule favorable either for sausfactory germination or rapid development. This statement is applicable to almost all sections, but more docidedly to the Allantic States, Texas, trkansas and Tennessee In early May the conditions improved except in the soathwest, whero rain was needed: but about the 13 th of the monith an unusually cold term set in, which contunued with more or less severity until near the close of the month, checking growth for the time being Whether any permanent injury to the plant has resulted from this adverse infuence cannot in all cases be fetermined: but it is likely, since the weather has now become almost everywhere more satisfactory, that no serious harm has resulted execpt in limited districts, where the frost may have made replanting necessary
(2) Cultivation has not been kept up in as thorough a manacr as it was a year ago In the Gulf Staics. Texas and Tennessee fields were reported to be in giod condition at the date of our mail advices, but along the Atlantic and in some parts of Arkansas, etc. we bave received many complaints By telegraph, however, weare informed that cultivation is now making rapid progress everywhere.

As to the takings of commercial fertilizers there has been a very heavy decrease, but of homo-made manures a slightly greater uso is reported.
(3) Condition of the plant, as already indicated, was on the whole less satisfactory at the close of the month than at the same date last year. The States of least promiso are apparently the Carolinas and Georgia, but the plant is late almost everywhere, and so is farm work It does not necessarily follow that the condition is really unpromising, but rather that more depends upon future development than has been the case in some other productive years. -Commercinl and Financial Chronicle.


The Phince of Wales' Latest Photo.

## THE JUNB FUR SALES.

The fur sales held by C. MI Lampson \& Co. in London on June 20 th and ath, resultod as follows:

Bear, black, 15 per cent. lower than Mareh; bear, brown. 20 per cent. do.: bear, grizzly, 20 per cent do. : bear, Russian, zo per cent do. Fox, red, 15 per cent. lower than March, fox, white, 15 per cent. do. . fox, gray, is per cent. do. fox. Japanese, same as quoted in March. Beaver, 10 per cent. higher than in January Sable. Russian, $17 \% / 2$ per cent. lower than March Marten, 10 per cent. do. Mink, $121 / 2$ per cent. do. Lynx, 20 per cent do. Otter. to per cent. higher than March. Wolf, 15 per cent lower than March. Wolverine, same as quoted in March Chinchilla bastard, 20 per cent. higher than March Lamb. Thibet, same as quoted in March. Opossum, 25 per cent. lower than March. Raccoon, northern, 5 per cent. lower than March. raccom, western so per cent. io. : raccoon, southwestern, 25 per cent do. Skunk. $77^{\$ / 2}$ per cent. do. Cat, civet, 25 per cent. do. Muskral. 15 per cent. do.: muskrat, black, to per cent do Cat, wild, quite unsaleable. Badger, do. Cat, house, 15 per cent lower than March Squirrel, same as quoted in March. Hair seal. drj. do Rabbit. North American, 35 per cent. lower thas March. Ermine, o per cent do. Upossum. Australian, so per cent do. Wallaby, 10 per cent do Wombat, to per cent do. Fur scal, salted. Iustralasian. same as last November.

## DIAMINE NEW BLUE "R." AND "G"

Wmi.J Matheron \& Co. Limitad, dyestuff manufacturers and dealers of New York, Boston. Philadelphia, Provilence, U.S.A., and Montranal, send uv a cand of handsomely dyed colton samples of diamine new blue with the following notes "We offer two new direet dyeing dyestufts, manslactural by our principals, L.copold Cassella NCo, which we call Diamine New Blue R and G . In fastacss to light and washing these colors possess advantages over any of the direct blue dyeing dyestuffs now in the market.

- Coflon.-This is best dyed with 5 per cent, soda and 85 per cent glaubersalt. In combination with dyestuffs that go on without the addution of alkall, it can be dyod with only common salt or glaubersalts. The lastness to light and washing, as above stated, is butter than with the other known blue direct dyeing stuffs. Tho fastuess to alkall and hot ironing of the Diamine Newl Blue 'G.' is very guod. but the ' R.' is markel slighty redidened byammonia or hot pressings. IBoth marks can be casily discharged. If treated with bluestone (sulphate of copper) Diamine New Blue Re gaine fastness to light and washing, whilu the G. mark is dulled by this treatment.
"Uniens-iDiamlae New Blue -G.' dyes wool and cotton qually well, and on account of its great fastness to light and facility of mixing with alkall blues in mixtures, should find a large outlet Diamine New Blue A gives bright navy blue shados, but djes the rool a little darker than the cotton.
"Ifalf Silk is dyed exactly the same as Unions.
" Wool, as well as Silt, is hest dyed with the addition of 10 per cent. glaubersalts and 2 per cent. acetic acid, and the Diamine New Hlue $R$ should particularly win favor as producing a navy blue which is fast to washing."

Messrs. Matheson \& Co. have also issucd a card of samples of diamine scarlets and Bordeaux which show up very brilliantly. Those interested may lave a card of either on writing to the firm's Canadian address. 125 St. Baul street, Montreni.

## Chinese cotron manufactures.

The large decrease in the exports of American cotton goods to China during the past twelve months, says the Manchester Giuardian, to wheh we have on previous occasions drawn attention, is attributed by the Unted States Consul-General at Sbanghat parily to the successful competition of the cloth produced in the new cotton mills in China and partly to that of imports from Japan. Mr Jermgan states that no exact statistics of the quantity of cotton maclinery now at work in China are avalable, but that according to a very moderate esumate there will be at the end of the current yenr not less than gin.ero spmalles and 3.000 looms. In view of the $^{2}$ largo juantity of such machnery known to have been dispatched from Mamchester to China lor sume ume past, thus statement has the appearanco of being well whin the mark. The Consul-General duells upon the seriousness of the fact that the wages paid to factory workers in Japan and China are not only low when stated at their nominal or par quivaients in gold, but that, owing to the who disparity between gold and silver, they are really much lower than they seem to be ar Jernigat is consinced that unless some remody ean be found for this disparity the product of the Oriental laloser surplied, at he is, with the very best modern machinery. will at no distant date beiome a dangerous rival to that of the Wentern laborer in goll standard countnes lie adds that it is not valy in respret of American but of Jritish cotton goods that the growing competition of Chana and Japan is being felt.

Acording to asme Japunese authurites it is not Japan, but Europm and America, that will most benefit by the treaty of reace Ehetwera japan and china. Accotding to the mest favorod nation clause the Americans and liunopeans can engage in manufacturing pursuits in Clana. with choap labor and an unlimitat supply of materials " In fine," says a Twhio authority, " the European and Amerian capitalists will find it to their advantago to shift the wenes of indastries from Europe and America to China. This may aypara a wild spxculation, but it is by no means devid of the chances of possubility. It will ba no wonder th the banks of ithe

Yang Tse-Kiang bo covered with tall chimneys and its waterreverberating with the sound of revolving engines. If our manufact rers and capitalists wero as keen and enterprising as the Europeans, we might launch in the same undertaking and compete with them on Chinese soil. But the issuc is very doubtful, when we remember of what stuff our capitalists are made-the most unpmgressive and prejudiced elenent in our national existence So far every advantage resits with the Europeans and Americans."

## A JAPANESE RUOM.

The Japanese house is full of emptiness, for the Japanese have learned the art of doing without. The floor, spotlessly clean and covered with padded malting, serves tor table, chair and bed: the wooden chopsticks do away with knives, forks and spoons, and the hibachs of hot charcoal is the substitute for fireplace, poker and tongs. As the women wear $n_{1}$ etticoats, bonnets, hats, gloves, boots, shoes and stockiogs, nor jeweity, grent wardrobes and chests of drawers for clothes are unnecessary, and as houschold a. . j personal linen is not used presses are not required. Thus a Japanese houschold is so arranged as not to nead the services of the laun. dress, the chimney sweep, the knife and plate cleaner, the shoe. maker, the bonnct-maker. the glover, and, x should add, the windowcleaner, for the outer walls and the partitions between the rooms of a Japanese house are made of panels which slide over one another, and are fille 1 with translueent paper which admits light, and thus takes the place of glass windows.

One of the dainty cabinets which wo are accustomed to treat as ornamental toys, and a small writing table about 8 inches from the ground, are often the only articles of furniture in the soom of the house of a wealthy owner. In a copboard or double wall are thrown during the day the futons, or padded coverlets, which serve both as mattresses and bedelothes at night. In every room is found the tokonoma, or sacred recess, decorated even in the poorest houses with a vase containing a flower and a kakemono or hanging picture, giving an impressionist sketch in black and white of a misty mountain or waving bamboo branches. In the tokonoma of the house of a wealthy person are hung the finest paintings, and here is also placed a gem or two from his art treasures, taken from his fircproof godown and changed from month to month. In a Japanese room there is neither privacy nor comfort, and hence the sereen becomes a necessity, both to give shelter from the draughts which traverse the room from all sides and some protection from the eyes of the curious. 'To decorate construction and nut to con struct decoration" has always been an axiom to the japanese, as it must be to an art loving people. and hence sereen decoration has been an art to which the greatest painters-Kiorin, Tanyu and Hokusai did not hesitate to devote their talenes, and sereen deco ration is still the subject to which the highest efforts of the art embruiderers are directed.

## Japanese jute trade.

The hatest move of the japanese in the commercial line seems to be an attempt to aequire a share of the jute trade of the far East, though more as middiemen than as actual producers. Since the cessalton of the war the Bengal jute mills, whech have alroady contrival to anjure Uundee almost mortally, have had their order books full of contracts for early deliveries of jute yams and fabrics from the Japanese merchants, and the prices obtained are said to allow very profitable results to the mills. The purchase of jute fabrics by Japan is no new thing, but jute yarns are quite a novelty of this trade, and even the demand for the manufactured goods has gone up very largely. The Japanese. not having the spinaing machinery on hand, yet intend to work the yarns up into cloth for consumption at home, in China and in the Eastern archipelagos generally. The manufactured goods are probably beught because the Japanese liave orders which they cannut exe. $\therefore$ in their own facteries within the stipulated time of delivery.-n..ipet and $U_{\rho}$. holstont Tradt Resiotr.

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## Fopeign Fextile Oentres

Manclusster. - Thero has been little change in the cotton market during the first week of Julj, says the correspondent of the Drapers' Record. A rather steadier tone prevails, and spinners aro buying more freely, but the depression, attendant upon the recent decline in prices, has not yet disappesred, and great caution characterises the action of splaners. On the one hand they are anxious to cover all yarn contracts, while, on the other, they do not wish to largely increase their cotion holdings. In this condstion of uncertainty business drags slowlv along. Egyptian cotton is in rather greater demand, and is advancing in price in view of the depletion of stock and the small shipments, but the datly sales continue of small amount. In yarn the enquiry is weak, and spinners show increased anxicty for business at easier rates. Both home trade and shipping orders are difficult to find, and when found are of small dimensions. In eloth a little more has been done, although not enough to kecp looms engaged, and even what has been put through has been the result of the low prices manufacturers have accepted to keep their machinery at work. Some Shanghai business has been obtained at fair prices, but the minor markets and the indian are alike quiet and trade generally dull. A large number of cotton companies took stock last week, the result being in most cases a small profit, but few dividends. American woolen manufacturers are complaining about the enormous imports of woolen goods, wi.ich in one district alone exceeded in May by $2,000,000$ dollars the amount of last year in the same period. They find themselves unable to compete with these goods. Several Zurich travellers have visited mancbester. The pertinacity of the Swiss silk manufacturers has been one of the most striking facts in connection with the silk trade of the past few years, and it has no doubt been greatly increased in the English market by the hostile tariff legislation of France. Last week, however, the strained relations between the two republics came to an end by an exchange of ratifications between the French Ambassador at Berne and the Federal Government, by which each nation accords to the products of the otber on entering the most favored nation treatment. In addition. France concedes to Switzerland reductions on thirty articles mentioned in the minimum tariff. Silk cloths and embroideries are included in the latter, the reduction, it is sald, being due rather to a new valuation than to a reduction in the duties. Details of the charges which have been made will no doubt reach you through other channels. The "peace" is no doubt highly important, and may serve to modify the severity of the competition which has prevailed of late between Swiss and Fench houses. Swiss houses have shown their French rivals that there are other methods besides tariff reprisals with which to punish hostile fiscal legistation.

Dewsnyry.-The principal firms in Dewsbury and Batley are well employed, chicfly with orders from America. Serges are still being made in large quantities, and presidents and tweeds are selling very well at late rates. Fancy cloths for France and other places on the Continent are in fair request, and some firms are working overtime to complete orders for this class of grods. The blanket trade is quiet, and there is no improvement in the carpet trade. The fancy rug trade is fully maintained.

Bradpord.-It is still too soon to form an opiaion as to whether the advance in merino wools and tops, which has recently been established, will be fully sustaned to the end of the present scries of Loadon wool sales. Shrewd wool traders here seem to think that the end of the sales may be somewhat more in favor of buyers. The tendency of the " term" market at Antwerp has recently been upwards, and the state of this market may generally be taken as a true indication of the feeling of the manufacturing dis. tricis on the continent. Should, however, the French and German buyers show no greater eageness for wool than at the commencement of the last series, I do not think the Yorkshire requirements will long keep up the standard of prices. In Eaglish lustre wools there appears to be less excitement, although prices are still quite
firm at late rates. The general traje is certainly not prepared to follow the extravagant lead of a fow wild speculators in the country districts. In mohair the recent rapid advances, both here and at the sources of supply, have tcaded to quitet business, and there is no evidence of any further immediate advance: in fact, there is practically no business whateverin raw material. In the yarn trade. as more business is coming from abroad in two-fold yarns, spimers have again advanced their quotations. They aro well under contract, and are thus in an independent position Ordinary wellknown matks of yarn are now from 2d. to 3 d per lb up from the bottom. The fancy prices asked for lustre yarns have brought about a check to new business, although there are good lines off ring at rates not much below to day's prices In mohair yarns it is impos. sible to place business for delivery before the spring of next year On Change, the few men who have time to gossip are telling of the large hauls the big, bright yarn spiuners are miking the profits of one well-known firm are set down at a million sterling for the present year, but one would suppose this to be only an outside estimate. There has been new business placed in merino and fine crossbred yarns for worsted coating purposes, occasioned by the influx of further repeat orders from the United States These goods are quite keeping their ground against native competition, notwithstanding the statements of the American commercial press In the warchouses the attention being paid to bright goods for dresses and costumes has somewhat interfered with the regular trade in winter dress materials, but Amazon cloths in plain and mingled effects are doing well for the costume trade. Some of the leading makers are already getting repeats for these goods the leading manufacturers of mohair dress goods are not content with producing simply the old-fashioned types of bright styles, but are giving evidence of the improved taste of Bradford by producing beautiful novelties in chind effects and other fancy styles. In the blanket trade there is still a steady business doing, and reports from travellers in nearly all districts continue to be satisfactory in flannels there is no great rush, yet numerous small orders continue to come to hand, which, with the larger season's orders placed previously. suffice to keep machinery employed. The approaching general election is already having an adverse influence on new business. There is a healthier inquiry for the better qualities of white Yorkshire flannels, and the demand for natural Shetlands shows signs of revival.

Lemds.-In Leeds the clothing trade is still in a healthy condition, and the favorable scason has enabled retailers to ket down their stocks to such an extent that they are prepared to meet the coming autumn and winter in better spirits and with better.filled pockets than for years past. Makers of worsted coatings are getting further new business from the States, Canada and the continent. In the beavy woolen districts there is a somewhat guicter feeling, with rather less new business coming to hand. This cans be fully accounted for by the half-yearly settlements and the rainy weather we have had for the last week or so. For the shipping trade business continues good for most markets in fancy goorls, serges. presidents, and reversibles in low classes of rugs there is less doing, but makers of speculatives, where gool taste has been displayed in the production, are busy.

Kidderminstrar.-Although the carpet seasm is drawing to a closo, there is no perceptible falling of in the number of ordcrs. They are, as usual at this time of year, in small amounts and of wide variety, but the total is respectable The amount of yarn going into consumption keeps up. New business in yarn is very quiet ; contracts are working down. but so far few substantial inquiries have been made

Nottisgilas.-The condition of the lace trade is without insprovement. In the plain net branch the present state of business compares unfavorably with what it was earlier in the year lewer bobbin nets are being exported for embroidery purposes, and there is not much doing in mosquito and corset nets Stiff paris and Paisley nets are also dull of sale, and the demand for Mechlin. Brussels, and zephyr tulles is quiet. Silk tulles are slow, but a steady business is being done in veilings and hair nets The de-
mand for alk fancy laces remainustull No change is apmarent in the cotton millinery hace drpartment Minerate ordersare on hand for the more fashtomahio gionls, but in no caso is there any real antmation, and it isonly in excertional cases liat machinery is prohtably emplayed The lace curtain trade is quiet, the supply of grools being fully ejual to tho demand, and nether makers nor finishers are fully employd. The hosiery trade is in a beter condition than the lace industry. The shipping trado has improved, and comparew favorably with ite condtion last year.

Scotr.ax! -Tbe wholesile section of trade ix quieter, and only small sortung-up lots have been l- ught. An abnormal demand for alraws has been experiencel, and it wuuld seem ay if there would be a complete swecping out of all wholesale and retail stocks before the end of the present montis. The lhundee market has been more sleallty actlve, and prices have been kept steadily at fil 15s. and S.12 Makers are willing to pmy these pricesin view of an increased number of comers irom fareign markets in manufactured goods, hewover. there has been no general advance. but an advance of $1 \cdot 8 \mathrm{ml}$ on hesoians is likely to take place any day. For small lots such advance is reported to have been paid. Wool sales have been held at Edinburgh and teeith The sibght tirop of 1 d. witheh was noted at Glargow sales two weeks since, was recoverod and prices for picked loss touched rifd nlove the prices paid at Glasgow sales There was a good attendance of buyers, and unlike Glas gow saice of a fortuight since, only tery few lots were withdrawn for lack of bldders Mdices from Canada and the States have been received this week hy dyrshine curtain manufacturers which predieate a keod sale in the "full" scason. Mills are now within a couple of weeks of the holiday stoppage. hut the reports referral to, as well as the indications of the home market, are a hopeful outlook for is resumption of full time in . August The tweed iride is dull. Linoleum manulacturers are busy, but complain of keen competition.

Betpast - Although no marked change is observable from day to day In the condition of the linen market, says the llarchouseman and Drater's correspondent, reports from almost every luranch of the trade speak of gradual improvement taking place Yarns bave been much more freely dealt in, but, although some numbers of certain apiumings are reportad to be fetching slighty higher prices, the prices set oltaitable are still far from being as remunerative as they ought to be. The backward condition of the growing fax erop, both in Ireland and the continent, owing to the lonktemtinued peribal of drought that set in shortly after seed time. leads fo a general expectation of higher prices both for garns and fax in the early autumn. Sotne classes of forcign flas are already quotably dearer For the lait weck or so we have been favored with a good deal of rain, which will be of service to the late sowings of fax. hut for the earlier sowing it has come tow fate te be of any proctical berictit in increasing amount of business is passing in the brown linen mazket and must manufacturers of power foom gools are now engaged working to order, which would tend to verify the repurts of consiberable reductions in white and tiaished stocha having taten place within ther last month or so There are sones wha beliese that the linen trade is con the eve of a period of altegerther hif her values than have been ruling for some time past: If a subtiantial mance should be establiviol in yarns and cloths twrore sext stowhtahing, st will prove a veritable goilsend to semme limfend eompanes whose directors at preseat suem to have arrived at their wis' end The trade in contongends in the lianal warehouses is ununally active for this jernal of the season. Buth bere and in the shirt factorics fanneletms athl wher heavy cottons have ixen purchased on an catensive scale for the coming winter, added to whilit there has been an unusually prolungid demand for grandrilly, harvards, and colier lighter makes of woten colored shirtings Tho apron and yioafore factorien havo just entered upon meeir new sensen's trade, and have lieen oferating very freel) in cuttongoods. Meached curydons bave toen suld fer the cerming season moro iargerts than for sume scidone pay, in wime caser, it is said, tahing the place beth of urion and cotten hollands. The itregulerty that hax mariad the 31anchester conton mathet sinco Whisuntide has had tittle eflett oia shar sile on far as gands made from Ameriean
yarns are concerned. prices for these never having reached full proportionate quotations, but in the finer end it has been followed by some little iluhess. Some of the largest buyers of cloth from Egsptian yarns are holding off and runming down present stocks; when these buyers are agnin forced into the market a considerable reaction upward may be expected.

Plauen. -ddvices from this centre state that there has been no alteration in the condition of trade In laces the demand ap. pears to be for the cheaper qualities, and for these there is a good inquiry. It is anticipated that the demand for the American mar. ket, which is at present but small, will shortly improve. Eimbroi. dery goods are in falr request, especially for machine-worked goods; still, hand embroideries are doing fairly well. Diess embroideries arc selling well, especially in leather colors, the trade done being fully up to the averago for the summer months.

Lace in France.-Some of the naivest shades of lace collars are made like square berthas cut down square at the top. Later on in the season we shall see simitar collars or berthas made of velvet, shaped so as to set quite plain and very broad, that they may enclose the top of the big sieeves as woll as the bust. During the holglt of summor we are likn'y to see a great many Marie Antoinette fichus-some made of anuslin and lace, oltiers of gauze, the frills edged with a satin band. A new idea is to have these gavze fichus of a dark coler. Some are of bluet blue, worn over grey dresses. All interested in the lace trade find themselves just at present very undecided as to what part laecs may be expected to take in the new fashions. Many new toilettes are out, and not much hace is seen on them. The corsages and dresses are simple, and the ornaments, etc., worn on them are various. Among these arn seen jet. paillettes ribbons, application and white and black laces, but principally tnousseline do soic. It is, therefore, difficult for our lace manufacturers to foreseo what is to be worn, and many of them are simply waiting to see what will appear in the menth of July, by which time fashion will have taken a more decided turn The styles of collars, collanttes, cte.. which bave been crated and which have disappeared are without number. Many of them, according to the Dry Goois Economist, are made with coarse tulte grec, entirely coveral with ribbon six to eight centimetres wide, placel side by side. follow:ng the lines of the cape as they widen out at the bottom, a feature being a bow of ribboas as a finishing off of each line of ribton. These bows are now very much seen, and are very effectively used, forming, as they do, a relicf to the cape as bows at the buttom, and, being all close together around the neck, form a band of bows. When these are not used they are replaced by lace plisse, with two pompons (or bows) of lace, and by two ribbons to tie in front. Many of these ruches are made in black, with violets or other nowers as relief to color. To make these ruches various materials are used. from coarse tulle gree to the Gnest Chantilly, and also plain mousseline de soie. The widths are generally from 152018 centimetres. The most striking novelty is the fichu Slaric Antoineste, which is taking the place of the lace collars of last year. This fictu is always of a very light material, and white, in mousseline de soic or some such material, and finishes in accordion plats. It forms a complete collar, and has long ands which fall down in front or are tied together behind. Blouses are very much in favor. They have only recently been generally adopted here. In america and England they are always much more to be seen in ordinary use, and to an American it seems quite a bread-and-cheese article. Not so here, at all. The shape is the 1 sjo style. Some are trimmed with lace (asually uld laces) or application laces, and also Luxevil face. Laced is placed plisso as epaulettes, or as jabots or bolero, and with or withont a stiff cullas round the neek covered with lace. Creppon, the rape of the season, is very much used for dresses, and for the corsages heavy laces in bertha or cut-qut designs. These latter, relieved by spanglos, jet, or metal, produce a very agrecable effect. Plauen laces are daturally the most usect for this purpose, in addition to Fscurial and Lyons laces, as are also Lyons collars in claracteristic gool stgles. Luxeuil, however, has effective collars in a difterent but equally good class.

Berlin.-The preparation of dress goxis samples for tice spring of 8896 , has commenced quite early, and the work has so far progressed that assortments can already be selected, says the Dry Goat: Economist correspondent. The actlvity that has prevailed in the preparation of the collections confirms the opinion that manufacturers are looking forward to the coming season with greater confidence thata formerly. Striking figures, strong color combinations and fantastic effects seem to be the coming style. The spring season will sco goods which can with right lay claim to being noveltics, being simple, yet unconventional and combining with correct desizn, good coloring and quality. Manufacturers have given much attention to producing fabrics of good quality. which are also as nearly perfect as possible in regard to cxecution. Fashion favors specially striking, colored. irregular designs. Scaly cripes with strong shiny effects and "loud" colored mohair tissues are seen. In the making of these, neither gold nor silver colors, which look very well on the shiny mohair material, have been spared. The most brilliant tones of red, blue, yellow or green are not despised. There is also a very large assortment of goods with silk effects which show, almost without exception, irtegular and often fantastic designs. In cripon materials appear new designs. One of the most novel of these is produced by a double weave of rough, shiny mohair yarn. The upper weave con. sists $u$ thick, dark-red warp and silver-grey filling threads, woven canvas.like and loose. These form large, cushion-like prominences in the form of irregular triangles. The ground of this tissuo is woven with thinner mohair threads, grass green for the warp, steelblue for the filling. These ground threads are woven grate-like under the triangles, which hide them from view. This material is very effective without being too "loud." Seen at a distance it resembles a snakeskin, the raised triangle appearing like scales, an effect that is considered highly fashionable. Less exclusive but not so striking is a similar material in which the colors are gray, olive and black or brown, blue, light brown and silver gray. A new hopsack looks well. It is made of shiny cheviot material in citpelike weave with small designs. This is seen in the brightest colors, such as fire red, deep blue, olive, reddish gray, gray green. In the dress fabrics with silk effects some novelties are seen. I pattern with lightning like, irregular, zigzag design is distinguished by its lively effect. This matcrial consists also of two weaves, one being that of the wool material proper, which is of strong blue worsted yarn in ordinary twill weave. The otber is a grate-like weave of yellow silk underneath, in which the filling threads are clouble and the warp threads are single. This yellow silk is used in certain spots as filling in the upper material, and zigzag lincs are formed that seem as if they were proluced by embroidery. Thi: design is not less effective in brown woul and pale.gellow silk, or in gray green with rose silk. Tissues in softet combinations are rest missing. A grayish-white and green-striped ti-sue is woven so, that four silver-gray and four green threads always tun alongside in the warp. In the filling fine silver-gray worsted, which does not show in the green stripe, alternates with yellow silk. This silk thows on the surface in groups of short stitches and gives the material a dis. tinguished appearance. Still softer comb'nations in this material are pale brick ral and light-hlue or black and reddish-gray stripes with white silk.

Curemsirz.-Diplicate orders for fleeced hosiery have been quite numerous, and many have been refused by the manufacturers, as the time for delivery was too shott. For the coming season black will still be the leading articie. Goods with high-spliced heels, double soles and spliced welts are the style now for a plain stocking. Large assortments of lancy drop-stitches and Richelicuribbed styles are also shown. Maco split feet with a pearl line are good on ladies' black hosiery in the better grades, while in the lower qualities plain split fect or Maco feet will be sold, as they are lexs expensive. In men's half-hose, too, these styles have gained great popularity, Ladies' fancy bosiery has been slow for years, but it looks as if trade in this line were picking up from season to season. Trade in silk-plated hosiery is very quiet. This stillness is due to the fact that customers have lost confidence in these goods through the poor light-wight qualities that bave
been brought out. Summer gloves are very dull. but the usual business in tafieta and silk ploves is expected. In silk mitts the American makes comparo with German preducts so favorably that only $n$ small share of them is now shipped to the United States. Business in ribbed underwear is quict. a'rises on all goods are above last season's quotations, and oven though there may not be much chance of a further important rise, there is still less possibillty that goxds can bo bought eheaper later in the scason.

## FAVORS ENGLISH SYSTEK.

Of one of the most pregressive mills in Ontario writes Robert S. Eraser, of Liontraal, as follows: "We got the big selt of carels fully started to work the iirst of this week, and thoy are turning out elegant work and lots of if. It is a pleasuro to see them run We can readily understand how the English mills, equipped throughout with such machindry as these, havo been always able to manufacture so much cheaper than tha Canadian." Mr. Fraser, in discussicg the question of English ess. American system, says ho is convinced thai the Canadian mill tbat would successfull, compete and keep out English and other foreign mado goods, must revolutionize thetr plants by adopting tho English cards and mules and the sames system of carding, as it is an admitted fact that the high rate of speed necessary to get off production on the narrow carls cuts up and shortens tho staple of the stock, causing a tencier and fribby yarn, wheh results in a serijus loss in spinning, weaving and milhng; while with the English system they can produce a stronger and more even yarn of from 55 to 20 per cent more weight from the same quantity of raw material than is possible under the American sy,.em.

Starting from this point, with a greater quantity and better quality of yarn, the percentage in saving increases with each stage in the manufacturing.

## SEWING LaCHINES.

To ensure good work on these machincs, the followng points should be borne in mind, as they are essential to perfect work.
:-The tension should be in perfect order, and to adjust it requires patience, moving the tension screw litte by litte, until thr: desired result is obtuined.
2.-The stitches should be short, and not longer than the gauge of the goods, that is, if the goods are knit on a machone the veedles of which are it inch apart, the length of the stitch of the sew. ing machine should be sixteen to the inch.
3.-The operator should hodd the work in such manner as to have the goods a trife seretched as they pass under the foot.
4. -The neerle throat should be as narrow as possible on the top side next to the work, and the edges of the bole not rosuled off; but on the under side the edge should be rounded off and made perfectly smooth, so ai to present no obatruction to the passage of the loop.
5.-If the machine has ia trimmer atlached. care should be taken that the pieces cut off do not wedge between the knife and the edge of the foot. If crowding should take place there, the machine will put two stitches neatly in the same place and at the same point. If stretched, you will find the seam to break.
6.-The bobbin from which the sewing thread is used stould be set to deliver the thread just as it shculd tefor a kniting taachine, to prevent a break and consequently a press-off.

If these rules are strictly carried out, there is no reason why a single thread machine will not make a seam whose stretch is equal to che elasticity of any properly knitted fabric, and without these secming little points it will be the exception, and not the rule. If the scam does not break.-Kinitters' Circalar.
S. Gluare \& Co., dealers in clothing, etc, Ilalifax, N S , have offered $331 / 3$ cents on the dollar, on liabilitics of $\$ 15000$. Mr Glube, who is a Russian Jew, came from Chicago some years ago. and in 1892 started a branch in St John's. Newfoundland His difficulties are ascribed to the financial stress affecting the island branch.

## PLAIN, CHEAP PIECE DYES.

$A$ leading commision agent remarked the other day that he had always notical that immediately following an cra of hard times there always followed an era of mourning, an era of black and blue porals of a clieap sort to fit then ropuirements of the situation. It is from this period of mourning, doep mourning. that the goods market is now emerging, no better proof of which noed be furnished than an examination of the light-weight samples for the spring of thy.5, which are now being shown.

There is every indication that wo may not in years again experience such a demand for black and blue plece dyes as was enjoyal the past meamen. Anybody who will carefully survey the market cannot doubt tho abandonment already of many of the liswer grades of overcostings, cheviots and worstods in favor of a finer, better grade of goods The day of the co anci go.cent commercially all-wool cheviots is drawing to a close; the day of fake fabrics of all kinds is about over, and whilo we do not mean to say that many cheap goods will not continue to be made and sold every season, there is no denying the fact that thousands are tiring of shodily fabrics, nor that the demand for fancy worsteds and other inishad goods is increasing.

Reviewing spring samples one finds a very pronounced return to fancy styles, not by any means to loud patterns, but to neat, gentoel effects, such as invisible phids, hair lines, pinchecks and undefined patterns This return to a higher plane of quality and value is a natural result of botter times, of an improvement in the purchasing power of the people; of a practical demonstration that something cannot be had for nothing, that it pays to buy other than fake fabrics, that the best I, always the cheapest.-Am. W'ool Rcporter.
A. E. Ronnot, of the former dry goods firm of Deneau \& Rondot, of Amberatburg, Ont, is in financial difficulty. At a meeting of his creditors held a fow days ago Mr. Rondot offered socents on the dollar: he afterwards incrcased this to 55 cents, which was accepral.

Thit first of the textile schools authorized by the Massachusetts Legislaturo will probably be started at Lowell. A resolution of the Bontel of Aldermen has been passed authorizing a loan of $\$ 25,000$, to be pald over to the treasurer of the trustees of the sclirol. When this amount has been paid in. the city will be enthled to a similar sum from the State Treasury. The Board of Trustees of the school hax already been appeinted, A. G. Cumnock, for many yoars arent of the Boott Cotton Mills, being president: Arihur G. I'ollard, a prominent dry goods merchant, treasurer, and J. T Emith, secretary of the Lowell Board of Trado, clerk.
llokse Harr can be dyed a splendid black in the following way. First, the hair is cleansed from grease by steeping for an hour in a lukewarm solution of 1 kilo. of soda ash in 200 litres of water It is next put in a basket and eatered into a bath of cold water. Firom this it goes intoa mordanting hath, made with 8 llites of pyrolignite of iron ( $15^{\circ} \mathrm{B}$ ) in 200 lifres of water and treated cold for two or three hours, Leaving this, it is given a cold chalk bath. aso grams of chalk in 100 litres of water. The basket is then plungol anew into clean cold water, and then the djeing is done in a bolling bath made with 3 to 4 kilos. of logwood extract of $30^{\circ 1}$ B.

Sinck what has declinad so much in price, in recent years, the importance of flax as an alternativer crop is being discussed in cer. tain parts of Ontario. It is well known that in Waterloo. Wellington, and adjoining counties of Ontario, fax has boen largely grown for yoars, and the mills of the Livingstons manulacture large yuantitues of linseed oil cake, and upholstery tow for home consumption and export, whille lerine \& Co of Doon, makolarge quantities of flax twine. In addition to the products of these counties, the Mennonites of Manitoba ship largely to the mills of Mr LJingstion The jear before last, it is stated by John A. Itunaldson. no less than i 60,000 bushels of seod, and last year over 100,000 bushels, came from theso prople. Their land being well allapted for the growth of flax, they get from a sowing of half a burbel of seal to the acre, a field of so or even 25 bushe's to the
acre. The flax crop of Ontario will be very light this year: but that of Manitoba will be the largest in the history of the Province. The Provincial Department of Agriculture there estimates the area of flax this year at 82,068 acres, as against 30,500 acres in 8894.

## LITERARY NOTES.

The Canadian Magasine for July is a seasonabic number, containing food for serious thought, and an abundance of light matter In the way of fiction, adapted to the lighter moods of the large mass of readers who make July a time of leisure. "By the Judgnent of God "is a story Ly Rev. R. F. Dlxon, which in plot, strength and sustained interest is one of the best stories of the year. "An Indian' Lover," by a New England lady, is redolent of the air of Quebec. C. I. W. Biggar, Q C., in his contribution of "Rome Revisited." gives a most entertaining article on Rome and its suburbs. "TherRevival of Napoleon Worship," by J W. Russell, is thought. ful and true to nature. "Two Days in Wemier." by Ellen Sigrid, is a sympathetic and thoroughly natural study of several of the great men of Germany and their surroundings. Calherine Helen Spence, one of the most famous advocates of Woman's Rights. deals in an interesting manner with the movement in Australia, though all readers will not fully sympathize with the views expressed. A sacialist gives teraely a view of the effect of selfishness on the Socialistic Programme which should prove interestung to students of the vital questions of the day, and to many others. "Hypnotism," by Ceorgo M. Aylworth, M.D., is an linteresting contribution on the subject which should be followed up by other writers. There are other articles of interest, and several poems, amongst which may be mentioned (poetry has boen in eclipse for two decades at least) the exceedingly graceful poem by J. Henderson, "In Arcadie," and the humorous, serious poem on "Tha Microbe," by D. McCaig. The Canadian Magazine is publishod by the Ontarío Publishing Co., Lidd, at 25 cents per copy.

The Tratile Mannfacturer, of Manchester, is having an interisting series of special articles on jute spinning and the manufacture of jute carpets and mattings.

The high-water mark of pictorial interest in the Napoleon Life, now running in The Century, is reached in the July number, which will contain among its illustrations a picture by Myrbach, of Boaxperte and his generals at the Tivoli Garden in Cairo: a spirited picture of the Battle of Aboukir, by Checa; and " Josephine at the Dsor of Napsicon's Chamber," by Pape, all original drawings made especially for this work; also reproductions of Gerrome's "Bonaparte in Egypt," Sergent's " Kleder at the Assault of Acre," "The Assassination of Klebber at Cairo," by Callias, Bouchot's " Bonaparte at the Council of the Five Hundred at St. Cloud,", " Installation of the Council of State," by Couder, and portraits of Cambackrds, Lebrun. Joubert, Gohier, Darras, Lannusse and Kluber, and of Napoleon as First Consul and as a member of the Institute. W. D. Howells continues his diverting and yet not wholly unserious "Tribulations of a Cheerful Giver." in which be deals vary suggesticely with various forms of beggary. Prof. James E. Keeler, of the Allegheny Observatory, contributes to the July Century a paper on "Pisturing the Planzts." with illustrations drawn by bimself and Prof. Holden, of Lick Observatory, giving views of Mars, Jupiter and Saturn as shown by photographs taken through the great telescope. Prof. Keeler's recent discussion of problems relating to Saturn will be remembered. Among the editurials of this number is a suggestive article on "Bicycle Problems and Benefits," in which the influence and importance of the bicycle comes in for recogaition. There is a very diverting article entitled "A Japaneso Lifo of Grant." of the "English as she is spoke" order, with funny illustrations. "Memoirs of Robert Louis Stevenson is another iateresting paper Canada is sepresented by a short but suggestive sonnet, "The Passing of the Spirit," from Archibald Lampman.
"The Catholic Church in the Niagara P'eninsula, 1626 to $1895 . "$ is the title of a volume of 352 pages, from the pen of Dean Harris, and very handsomely printed and bound by Wm. Briggs. Toronto.

Dean llarris is a man who, through a long residence in the Niagara reninsula, appears to liave gained and retained the respect and affection of almost all classes and denominations, and those who, know him personally will be prepared to find his treatment of the subject broad and spirited. To thote whodo not know tho author we would say that they will find this a volume of far wider scope than is indicated by the titic. Nine chapters relate the labors of the French and other pioneer missionaries from the time of Father Brebeuf, Chaumonot, and Hennapin down to the limes of the American Revolution and the War of :81a, and give an interesting description of the life of the Indians, and of the remains of the prehistoric peopies who dwelt in Wcstern Ontario. The later his. tory is not narrowed down to mere parish records, but gives us instructive glimpses of public men and public movements in this historic part of Canada Dean Harris' style of writing is unconstrained, and the brok he bas presented, brightened as it is by a wealth of illustrations, will live in the literature of our country.

The Farbenfabriken, vorm Friedr Bayer \& Co., have commenced the publication of a guide to the use of their dyestufts in handy form. Part s, relating to the employment of their specialtics in wool and cotton dyeing, has already been issued, and is a wel got up and thoroughly indexed book; irs fact it is a very perfect dictionary of their coal tar colors. The first or general part of this presents to the dyer in an abbreviated form those methods of work on which particular stress is to be laid. Then follows a special part giving the process of applying particular colors recommended by the firm as being the best to use. The book contains a vast amount of general information, which will be found extremely useful by the dyer. The Dominion Dyewood and Chemical Company, Toronto, are sole agents for Canada.

Undoubtedly one of the most popular stories yet given us by a Canadian pen is "Miss Dexie, a Romance of the Provinces," which was issued in March, and found public favor so rapidly that already the publisher, William Briggs, has been obliged to hurry through a second edition to meet standing orders, and which is announced as ready this week. The curiosity of reacers as to the identity bidden by the evident nom de plume, "Stanford Eveleth," is happily gratified in this second edition, from which we learn that the clever authoress is a Mrs. W, J. Dickson, residing, we understand. in Truro, N.S. Mrs. Dickson is to be congratulated upon the success of her book, which we are risfe in saying, has won a permanent placo in the fiction fiterature of Canada.

## THE WOOL MARKET.

The interest in the Canadian wool market is still maintained, and the advance in merino wools at the current colonial wool sales in London, and the presence of American buyers in Canada, tend to keep up the excitement in the local markets here.

With regard to the colonial wool sales, which began on the and July, and continue as we go to press, it was decided in June to close the list when the arrivals amounted to 400,000 bales, which they did over a week before the sales opened. The quantities available for disposal were : 116,000 bales New South Wales, 63,000 bales Yictorian, 26,400 bales Queensland, 15,000 bales So. Australian, 9,000 bales Tasmania, 5,000 bales West Australian, 130,000 bales New Zeaiand, and 54,600 bales Cape of Good Hope, together making a total of 419,500 bales, from which was to be deducted 60,000 bales of Australasian and 34,000 bales of Cape forwarded direct to Yorkshire and the continent, while there was to be added 64,000 bales left over from the previous sales. The sales have been attended from day to day by a large concourse of buyers, America being more than ustally well iepresented. The bidding was spirited, and even inferior sorts were in deraand. Up to date the general results of the sales may be stated as follows: Cape and Natal advanced from 1 to $\mathrm{I} / 2 \mathrm{cc}$. per lb ., Australian, $2 c$ (1d.), and Nlew Zealand crossbreds 2 to $21 / 2 c$., and much in demand at that advance.

In the Montreal market several American buyers have made their appearance this month, and have readily picked up any lots that have offered. These have been small, however, and the altentions of local buycrs, with American visitors, have kept the market
well cleared up. Au advance of 3 or 4 cents over prices at tho opening of the soason has been paid by some buyers Quelece feece is now quoted at 22 to 24 rents, and 22 cents has beon paid for some very common wool. Quelvec combing is quoted at 25 cents, other classes as follows: Cape and Natal, iz!! to if c. Australian greasy. st to 19c.; Montevideo, isc.; Buenos Ayres scoured, ac to 3 jc .: Now Zealand, 25 to 30c.: Canadian North-West, of which the mar. ket is now cleared, it to tg Some of the new clip of the Nor.is. West wool is expected in the market by August ist.

The Toronto market has not been quite so excited as last month, but the advent of more American buyers has kept the inter. est from lagging. During the past month quite a number of small lots have been shipped to the States. The bulk of Canadian fleece is now out of the hands of farmers, though considerable is said to bo still held by country ditalers. The Toronto papors published the report that John Hallam had bought three.fourths of all the wool of the North-West on his trip there during the past threo weeks. The local papers in the Territories say that sheep men have had a better year than ever before, and that the total clip is aiso the largest on record. During the pist week the Toronto markets have advanced somewhat, and the following are prices quoted: Merchantablo feece, 23c., pulled super, 21 to 22c., extra super, 22 to 2 亿. .

The following are prices of new rlip wos: as quoted at various local markets in Ontario, in july:


EXPORTS OF TEXTILES, GREAT BRITAIN TO CANADA.

| Raw Wool | Month of May. |  | Five months endilng May. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1804. 607 | ${ }^{18}{ }^{2} 5$. 796 | $\begin{aligned} & 8810 \\ & 8.876 \\ & 3.80 \end{aligned}$ |  |
| Cotton Piece Gouds | 19.626 | 23,277 | 222,672 | 230.078 |
| Jute Piece Goods | 3.719 | 6,220 | 40.364 | +2,060 |
| Linen Plece Goods | 6,78t | 7.627 | 54,234 | 64.455 |
| Silk Lacc.............. | 3.345 | 1,087 | 20.509 | 17.231 |
| - articles partly of .. | 1,202 | 2,255 | 13,267 | 82.747 |
| Woolen Fabrics | 6.807 | 8.396 | $89.04{ }^{3}$ | 80.918 |
| Worsted Fabrics | 17.147 | ${ }^{23.583}$ | 203.591 | 209.760 |
| Carpets.......... ..... | 4.980 | 5.547 | 106.773 | 102,608 |
| Apparel and Slops...... | 18.897 | 13.313 | 100.540 | 133.509 |
| Haberdashery .......... | 8,014 | 4.931 | 89.217 | 64.974 |

S. H Bethune, of Montreal, has arrived in Manchester, and we have dad amongst us recently Messrs. Morrice, who are largely intercsted in the Canadian colton industry, Whachouseman imal Draper.

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Mmnufueturara, Xanufucturera' Agenta mul हingortern
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127 It. Jnmes Street. - . Montreal. G. H. McHENRY, Manager.

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Hackle, Cill, Comb and Card Pins, Picker Teeth, Heedle Pointed Card Clothing in Wood and Leather for

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## Among the $\mathrm{Millis}^{2}$

The Sebringuille Flax Co. has declared a dividend of 30 per cent.

The Newbold Hosiery Co., of Toronto, is now conducted by lobert Newbold alone.

The Granite knitting mills report that they are worhing on orders which keep them running night and day.
J. Raudall, Mcaford, Out. is about 10 start another woolen mill at Manitowaning. Ont., still operating the Mcaford mill.
H. Clarke, an employee of the Marystille, N.B., cotion factory was drowned while bathing in the siver at that place this month.

The Winnipeg papery state that John Hallam, of Toronto, has purchased nearly the entire wool crop of the North-West ranches.

United States papers say that the Mexican cotton weevil is moving northward rapidly and is reducing the cotton acreage as it goes.

George W. Sawyer, paymaster at the Methuen Company's mills, Massachusetts, is spending his holidays at the Caledonia Springs, Ont.
H. Shurey \& Co., clothing manufarturers, Montreal, have takea a large order for ther Rigby waterproof cluthing from a firm in Amsterdam, N.Y.

The Standard Shirt Co., Montreal, hasbeen incorporated, with a capital stock of $\$ 200,000$, to manufacture shiris, collars, haber dasher's supplies, etc.

A large quantity of cloth that was stolen from Rougier's dye works, at Vancouver, was discovered a few days ago in a second hand store in that place.

The Montreal Cotton Co. has placed several new lines of dress canvases and grass cloths on the market. These new lines will compete with imported good..

Warrea Bros., of St. Catharines, Ont, have had their knitting factory running full time on their well known makes of athletic goods and Salvation drmy fabrics.

In the destruction by fire last month of the village of Lorne ville, a suburb of Cornwall, a number of the cotton mill employes lost nearly all their worldly goods

There has been an increasing demand for hair cloth and a sharp advance in prices. The St. Catharines hair cloth factory is running night and day to fill oricrs.
W. Graham, of the Laskay, Ont., mills, bought a lot of 12,000 lbs. of wool, mostly from his bruther, A. Graham, of Cubridge. Ont., and teamed it a distance of a 8 miles 10 his mill.
john iv. Barlow, manufacturer of howm pukers, raw hide geods etc., Lawrence, Alass, reports a large number of good onders on hand, and says that business prospects are better all round
W. Allen, son of Joseph Allen, of the British American Deseing Company, Montrcal, has arrived heme from England, where he graduatod with high honors at the Yorkshire Collere, Leeds

Madam Vermilyea, the former Belleville and Toronto corset manufacturer, whose case at Cleveland-where she was charged with smuggling-was referred to in a recent issue, has been fined $\$ 200$.
A. Parker. job dycr. Pelerboro, has met with great snecess in his laundry, which is now well equipped wht new machinery. He is now adding to this by putting in a new washer and a new starcher and band irorer, imported from the States.

The oil cloth works of Dupont $\mathbb{E}$ Wilson, of Kingston, Ont, recently referred to in these columns, projuce damask mats, rugs. stair cleths, and carriage sil clotas. They are sitpated in Cala. raqui strect, and turn out 1,200 to 3,400 yards a week.

A boy named C. Lanzon had a narrow escape of being killed at the cotion prime mills at Mages, gue.. on the rgth inst. His garments became entangled in the shafting of the machinery and were completely torn from bim, but furtunately he escapal without injury.

The binder twime manufactured last season at the Kingston penitentiary was 33 s .26 i pounds. Of this 248.016 pounds were sold, and yo,oso pounds were leit on hand. Two hundred pounds were sent as sanples. The amount realized from the sales was $\$ 15.515$.

The dyehouse of the St. Croir cotton mill at aliltiown, NE, is to be enlarged. The enlargement will consist of an ertension $62 \times 60$ feet, two stories high The work will begin at once. The consract price is about $\$ 7,000$ In addition to the building $\$ 10.000$ will be spent for new machinery

Beoth's woolen mill, at Odessa, Ont, caught fire on the afternoon of the sth inst., burning the roof and floor. The somblhest portion of the building was saved with great difficulty Ciluse supposed to be combustion or a hot box. Mr Booth had called a meeting of his creditors last month.

The Watson Manufacturing Company of St. Catharines, Ont , knit goods manufacturers, have been continuonsly successful since they stanted two or three years ago. They are ruaning on underwear, and, by having two shifts of hands, keep their mill in operation to its fullest capacity night and day.
" It is reported that the cotton mill building at Dundas. Ont . is to be purchased by the Macdonald Tobaccu Company, of Montreal. The building will be used as a branch tobacco factory." The foregong tem has been gumb the round of the press but we are informed by Mr. Macdunald that there is not the slightest truth in it.

A fire broke out at 7 p.m on the , ${ }^{\text {th }}$ inst, in the premises of the Smith Wool Stock Co, 1ront st east. Turunto. The flames first appeared in the engine room at the rear, and were not subdued till damage to the extent of about $\$ 1,000$ was done to the stock and another $\$ \mathrm{t}$, wou to the building. The company were insured in the Gore Insurance Co.

The contract for building the Wallaceburg Flax Mill Com pany's new mi:! at Wallaceburg. Ont., has been het to 'r MeC'arma The building anil machinery of the new factory will cost $\$ 3.700$. The capital stock of the company is now $\$ 3,000$, and more steck is berng solicited A large number of the original stockholders are doubling their amount.

About forty weavers, all girls, made a suiden and sucressful strike at the Cobourg Ont, woolen mill a few days ago The trouble arose out of a rule of the new foreman which atohshed the dressing room used by the girls The strike lasted but one day Then the girls went back to work triumphant, and secure in the possession of a dressing room that would sativf; the taste of the most fastidious.

The tollowing appears in the Hum.itur T.mas. "There uas but one case on the dochet at the County Court, llarves $v$ Struth ers. The action was berught by John lintres, of this city, agninst E. C. Struthers is Co. London, for \$ioq, the amount of an account for goods supphed by the G.reden Cutg E.erpet Co. The plaintilt got the aecount in a tansfer. The defence uas that it was wide some time aso Judgment reserved
 mill at St. Catharines, shipped ont. leaving behind him a good many small creditors (Mis. Taylor appears in havo made it a princif $:$ never to pay a deb: except in caimo of dire necensity), and the milt remained ide for some months it is now taken over by W. IE. Channel, who sioperatug on hostery, for which he tinds a good market in his uwn tulw Mir Channel is anexpericaced hait wouls manafacturer
W. T. Benson © Co, the Canalian agenes for John Ihwound Co., of Glasfow, repurt a harge and increanng tiemand for limenc. tine paste among the Canadian mills They are now introdueng a new article callel " Ferreline." which has remarkabir propertien as a preservatice againt ruat for iren or other metal sceerul of the textite and cther mills are now making tests of it fur their machanery, and it is certain to have a latee sale. Full particulars can
 Mantreal.

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The Quebec Weekly Budget says "It is stated that the arrangements between the Montmorency Cotton Co., whose mills are at Montmuency Falls, and the Canadian Cotton Combine, expire on the 3rst of August. No now arrangements have been made and the probabilities are that the Montmorency Company will run as mill independent of the combine Montreal members of the combine confirm this report The Montmorency Company bave issued circulars to the trade that they will be prepared to furnish goods on their own account on and after September first.
D. Morrice, Sons \& Co., of Moctreal, agents for the Dominion Cotton Mills Company and the Canadian Colored Cotton Company. have been making large sales of Canadian cotton goods in the Australian market, and they are now pushing the trade in knitted woolen giods in the same market. Mr. Morrice informed the Journal of Fabrics represeatative that his firm intended opening up trado in Africa, and that good results were expected. Of course Canadian manufacturers would have to fight against Euglish firms, but with the right enterprise good business might be done. as was the case with the West Indies, which were introduced to special lines of Canadian goeds some four years ago.

Geo. M. Waite, superintendent of one of the departments of Wm. Parks \& Son's cotton mill. St. John, died suddenly at his home po the 2nd inst. He had eaten a bearty dinner and went back to his work, but in a short time he found it necessary to go home. This was about $20^{\prime}$ clock. Within throe hours be'rijpised. Mr. Waite. who was a native of Bradford, Yorkshire. England, was 5x years of age. He left a widow, who has a grown up iamily by a former husband. Mr. Waite was well thought of by ai! who knew him, says the Sun, and his circle of acquaintances was !arge. He was at one time a member of the 6 and Fusiliers band. He was an active member of Hibernia Lodge, F. and A. M.

The Canadian Fibre Chamois Co. have entered an action in the Supreme Court for an injunction and for $\$ 5,000$ damages against Boisseau \& Co., the owners of La Cie. Generale des Bazars, of St. Lawrence street, Montreal, upon the ground that the defendants have been infringing the plaintiffs' trade mark by selling an interlining known as "Textile Buckskix:" under the name of "Fibre Chamuis," and to purchasers asking for the latter. The plaintiffs also complain of a sign displayed in one of the windows of defendants' store, which it is alleged is calculated to deceive the public into buying what is called an imitation article under the belicf that they are getting the genuine article. Plaintiffs will apply for an interim injunction.

For some time past numerous petty thefts have occurred at the Canada Cotron Mill, and on Sunday night, joth ult., James Cook, watchmer at the mill, saw a man, who had come through a bole in

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WANTED-To rong, or a parinership In, a oneseli. Woolen Mill. Masa ha ve Rood cestom rrade Address "Woolea Mill," Thiz Caxadian Journal or Fapkics, Montral, gea.
the fence, approach the wall and take from under a box a large lag. and started to walk avay with it Cook shouted to him to stop, but the fellow ran some distance, and then, faring capture, dropped the bag and escaped. Cook went out and found that the bag was filled with rolls of cotton goods. It had been taken out of the mill and hidden in the box some time previously. Cook was sure that tho culprit was Mitchell Mercier, a fireman at the mill. Mercier was arrested, but the magistrate dectued that the evidence against him was not sufficient, and dismissed the case.-Cornivall Standird.

Henry Markland Molson, assistant general manager of the Molsons Bank, Montreal, has taken an action against the Consumers' Cordage Company for $\$ 52.900$. Macmaster \& McLennan aro the prosecutiog attorneys. The plaintiff complains that fer some time previous to the 19th of April last, Charles B. Morris, of Montreal, was owner of 36 z shares of common stock and 168 shares of greferred stock of the said company at par value, that on the igth June last Mr. Morris transferred them to the plaintiff in trust upon the books of the defendant company;, which were kept for the purpose of transferring stock. They were duly and regularly transferred. Morris at the time gave his certificates to the company. and they now illegally refused to transfer to plaintiff these certificates. Their par value of $\$ 52,900$ is therefore sued for Mr Morris denies the claim of the plaintif.

## CHEMICALS AND DYESTUFFS.

The chemical market during the past month has shown signs of improvement, and the sales of alkalies have been particularly en. couraging. The heavy demand for chlorate of potash has induced an advance of oae cent per pound. Sulphate of ammonia is firm, and other ammonia products unchanged. Acetate of lime and acetate of soda are steady. Sulphate of copper is somewhat easier: borax rather depressed, and tartaric acid and cream of tartar firm. Other chemicals generally maintain the prices quoted last month.

| Bleaching po | \$ $=20$ |  | \$ 250 |
| :---: | :---: | :---: | :---: |
| Bicarb soda. | 225 | $\bullet$ | 235 |
| Sal sodz | 070 | " | 075 |
| Carbolic acid, i lb. botles | 025 | ' | - 30 |
| Caustic soda, 60 ${ }^{\circ}$ | 230 | " | 250 |
| Caustic soda, $70^{\circ}$ | = 0 | " | 275 |
| Chlorate of potash. | 016 | " | 021 |
| Alum | 140 | " | : 50 |
| Copperas | 070 | , | 075 |
| Sulphur fluur | 175 | $\cdots$ | 200 |
| Sulphur roll. | $2 \infty$ | " | 250 |
| Sulphate of copper | 400 | " | 500 |
| White sugar of lead | 00713 | - | - 03s |
| Bich. po:ash | 010 | * | 0 12 |
| Sumac. Sicily. per ton | 70 00 | $\cdots$ | 7500 |
| Soda ash, $4^{80}$ to $5^{\circ}{ }^{\circ}$ | 125 | " | 150 |
| Chip logwood | 200 | " | 210 |
| Castor oil. | 0003 | " | 007 |
| Cocoanut oil | - 0612 | " | 007 |

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PAPER TUEES SILK MANUFACTURERS. PAPER CONES \& TUBES FOR COHE WHOERS. LBWELL. MASS.

## ST. KITTS AND ITS CARPETS.

The vicisait udes of the carpet manufacturers of St. Catharines have been many, and some of them asd. We have before referred to the doinge of Stephen Syer, who appears 10 have provod the ctil genius of carpet manufacturing in this town, and who, since the collapse of the three factories there, has been fitting from town to town with all the uncertainty of a butterlly, till he has at last lis upon Port Hopa as the dite of his next venture. It wilt be remembered that James H. Ethetington, a hard-worklng Yorshireman, brought up to the carpet weaving trade from infancy, and who catablished a growing business at Paris, Ont., moved to St. Catharines about threc years since, the liberal. minded council of that city voting him a bonus for the enterprise Here Mir. Etherington extended hls business and sold his products readily to houses in both Ontario and Queboc, having Stephen Syer as selling agent. Mr. Etherington states that bo lost betwoen $\$ \$ 30$ and $\$ 1,000$ by his traveller, and when he dispensed with bis services. Syer went off to Woodstock, Ont., and fnducod slichacl Gates, another steady, plodding English carpet weaver, to move to St. Catharines and start a rivalry with Etherington. Gates and Etherington, though long separated by time and distanec, had gone to school together as children; but Syer proved to be the Jago through whose influence they opened on a policy of not the most friendly rivalry, when Gates had been persuadal to m ve to St . Catharines. The latter's expericnce, bow. ever, was such that he withdrew from the partaership he bad formed with Syer, and retired a poor man to his former home in Pblladelphia, where he is now working at a journeyman woaver. Meantime Syer induced other parties to take up the parable, ind soon blooned out into a new concern callod the Garden City Carpat Company. The talent he displayed in scraping logether, without capital, the machine ry for this factory, was worthy of a better cause, but here, at all events, was a third carpet factory. But the ond came. Tho closiog up of $\mathrm{L} \pi$. Gates place was soon followod by the financial troubles of Mir. Ethering ton, and it was not long before all that was visible of the "Garden City" carpet works was the name on the plate glass window of the large effice on Ontario street. Tho calls of local credltors were numerous and urgent, but Arr. Syer was in the condition of Abner Dean of. Angel's when struck with a chunk of old red sandstone-" the subsequent proceodidss interested him no more." savo that though he may have " mmileda sickly kind of amile," he did not "curl up on the floor." Far from it. With en energy that would command plaudis if exerted in a better sphere, ho visited town after sown, holding out glittering hopes of the benefits of a big carpet factory, on condution of certain bonuses and axemptions. Strathroy, Glencoe Bewmanville and Oshawa wero among the towns and villages that discussed shase propositions, but Fort Hope has been destined to capture the prize. The bankrupt estate of the Garden City Carpet Co. somohow fell into tho hands of John Harvey, of Hamilton, and when this happened it was stid that Syer had run against a snag that would undoubtedly stop his progress. How it happened has not trenspired, but Syer managed to get the machinery belonging to the factory loaded on 2 schooner from Port Hope Later the slaver in the broud lajson probably

$$
\begin{aligned}
& \text { "bialtond lo the rising muon } \\
& \text { And for the greatong gale." }
\end{aligned}
$$

At all events Mr Syer and his cargo arrived in Port Hope. where it is sincercly to be hoped the mistakes and misfortunes of his life in St Catharines will mot be repeated.

Mr Etherington, we learn, has, during the present month. bsen able 10 reiume operations Frani Maguire, to whom he had assigned, has since diol, and Mr Elterington says he has hopes of getting the machinery from the creditors on terms that will enable him to start again.

S Caxsley. dry goals merchant, Moatreal, left for Englad thas menth on an extenced trip.

JE M:LLEik, hat manuizeturer, St. John's, Que., accompaniod by lis sun Charlew, is now in England an a business trip.

## RECENT CANADIAN PATENTS.

## of interest to the textile trades.

D. H. McKay, Toronto, has patented a method of manufacturing jerseys, sweaters, ecc., the collars of which are so affixed that when turned down outvardly, as is the fasbion, the correct side of the knilting is shown.
T. Barker, of Todmorden, Eng, has patented a suspender, in which the buttoned tongues are held apart by springs, so as to hold the garment divided in its length, and not creasod together as is usual with ordinary braces.
I. H. McKechnie, Granby, Que., has patented a rubber over. shot having a textilo leg portion.
N. P. Bean, Stoneham, Mass., has patented a rubber garment for ladies' wear in wet weather.
G. W. Bartmall, Hamilton, Ont., has patented a new waistband for trousers and overalis. A gusset or puff, into which is sewn a piece of elastic, is made to allow for the contraction of the waistband, which is formed with loose, elongated ends, fixed with buckle and strap. so that suspenders or a detachable belt aro not required.

The Dill Spool Support Co., Camden and Philadelphia, Penn., have patented a spool support for spinning mules. The support has a nearly horizuntal arm. A drum is fixed on the bearings of the frapo with a spool suspended between the arms. The arms support the major part of the weight of the spools.
B. L. Armstrong, New London. Conn., has pateated an envelope for caclosing a skein of thread, the envelope being doublod upon itself, and having its end socured together with the doubled portion of the skein.
W. D. Mitchell and J. Mitchell, of Toronto, have patented a new waterproof fabric, consisting of a patterned material placed between two layers of waterproof material, the layer on the back of the material being opaque. and the one on the pattern side transparent.

The Toronto Carpet Manufacturing Company of Tomnto have patented a machine for cutting chenille cloth, consisting of a frame upon which are fixed movable cutting discs which operate over a sliding bed plate on the frame.

1. M. Hartpence, Harrison, O., has patented a window curtain strelthing frame.
J. J. McInercey, Brooklyn, N.Y., has patented a special corset the feature of which is a succession of pleats in which are inserted steels. The const is formed of one or two main pieces folded vertically at intervals and stitched together by a curved seam.
T. Laycock, Wallingborough. Eng, has patented a style of lacing boots, corsets or other laced articles which conceals the laco from view. To accomplish this a holder is fixed inside the articlo which maintains the lace in its place.
A. C. Bull, Peoria, ill., has patented a garment protector, consisting of two sections of material laced together and baving two elongated tabs for attachment.
J. H. Thamer. Roseville, Ont., has patented an adjustabic bag holder, consisting of a bottomless bucket fixed upon a tripod and having 4 holder for the mouth of the bag.
E. E. Haymes and T. S. Griesbach, Birmingham, Eng., have patented a device for fastening boot laces without tying. The contrivance consists of a metal loop fixed with clasping jaws, round which the laco is wrappod.
R. B. Rogrrs \& Co., of Winnipeg. are reported to have purchasod the clothing stock of Lang. Morphy \& Auderson, also of Windipeg.

A gire broke out last month in the Warren Chambers. Welliagton Street East. Toronto, and among other damage, burnt out the firms of Edwand Mahoacy, children's headwear: A. O. Buchanan, manufacturers' agent, and Arthur \& Co., wholesalo dry goods. The insurance in most cases almost equals the damage.

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The success of the Cajadian Engineer has bren unprecedented in the bistory of trade jourralism in Canada, for not only was it encouraged and assisted from the start by abic Canadian uriters in the various branches of engineering, but it achieved 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 bave sought the use of its advertising pages, have jurtifed the publisters in twice enlarging the paper in its firs year, and preparations arc now being made for a further enlargement. It is hopod, by tais increase, to make it twirco its original size. While this will mean a large growth in advertising patronage, it will also neean a greater variety of reading matter and illustrations for our subscribers.

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## DRY GOODS BUYERS ABROAD.

The following are some of the buyers in the dry goods and kindred trades whose arrival in Lingland has been reported during the past month: A. Loeb, Montreal: Jas. McDougall, of J. McDougalt \& Co., Montreal; John Torrance, Montreal ; T. W. Watkins, Iratt \& Vatkins, Hamilton, Ont: L. H. Ingram, Smallman \& Ingram, London, Ont.: James A. Ogilvy, jun., Ogilvy, Sons \& Co., Montreal laul Campbell, of Joinn Macdonald \& Co., Toronto: Samuel l-inlay, Montreal. George Calbeck, Weaderon!!. Ont Charies Cockshutt, Toronto ; S. C. Lacroix, of Z. Paquet, Quebec: J. T Lowry, Toronto; R. J. Tooke, Montreal; G M Smith, G M Smith \& Co., Halifax. N.S. , Mr. Tackaberry, Montreal; Chas. Botsford, Toronto; T. F. Kingsmill, London, Ont ; Robert AtcLaren, St. Catharines, Ont.; Isaac Friedman, Montreal: A M. Vineberg, Mlontreal; S. H. Bethune, of Galt Bres. Mlontreal; C E, Corbonneau, Montreal. Walter Scott, of St John; W. McMaster, Toronto; John Carsley, Montrcal; Alex. Auld (late with W. R. Brock \& Co.), of Hutchison, Nisbet \& Auld, Toronto; C J Catto, Juhn Catto \& Co. Toronto, G. D. Mckay, Toronto: Jas. Sutclife, of Sutclife ie Sons, Toronto.

The following arrived on their way to Germany
Monthene.-A. M. Ducketlo, of Henry Morgan \& Co.; G D. Mckay, of John Murphy \& Co. , and A. P. Porter, of S Carsley

Toronto.-G. W. Kenney, of W. A. Murray \& Co.; GcoDean, of the T. Eaton Co.; Mr. Tackaberry, of Robert Walker; Mr. Campbell, of Robert Simpson, T. C. Thompson, of T. Thomp. son \& Son; Jas. Susclifte, of J. Sutcliffe \& Sons.

Ifambton.-T. W. Watkins, of Thomas C Watkins; and Mr. Ingram, of Smallman \& Ingram.

Woonstock-Mr. White, jr., of John White \& Co.
Brantrord.-Mr. Crompton, of Crompton, Appley d Co.
Guelph,-G. B. Ryan.
Pgetrrbono'-Mr. Gilchrist, of Hall, Gilchrist \& Co.
St. Thonas.-M. J. Mick!eborough.
Tue Plymouth Rock Tailoring Co. (J. C. Taylor, prop.), Montreal, assigned this month owing $\$ 4,000$.

Frank Gebunrt, propritor of the Dominion Quilting Co., Montreal, has assigned on the demand of S. Ackers.
R. B. Rogens \& Co., Winnipeg, have purchased the clothing stock of Lang, Morphy \& Anderson, of Winnipeg.

A pirteen thousand dollar dry goods stock, in the store of T. Cole, Woodstock, Ont., was totally destroyed by fire a few days ago.

Tus city council of Sherbrooke have decided to allow ten years excmption from taxation to Walter Blue's new clothing factory.

The retail dry goods firm of C. Ross \& Co, Ottawa, is being turned into a joint stock company, to be entitied, "C. Ross \& Co.. of Ottava, Lid." The capital is $\$ 250,000$, and the first directors are to be W. C. Bronson, Charles Magee, Denis Murphy and Edward Scybold.
"Tue rational dress for woman," says a Western humorist, "is a pair of trousers, very baggy at the knees, abnormalty full at the pistol-pockets, and considerably full where you strike a match. The garment is cut dicollctic at the south end, and the bottoms tied around the ankles or knees to keap the mice out. You can't put it over your head like you do your shirt, nor around you like a corset, but you must sit on the floor and pull it on just as you do your stock. ings, one foot at a time in each compartment. You can easily tell the right side to have in front by the butons on the neck-band."

A press despatch from \}ackson, Tenn., says: "There is now at the gin of the Wiite Brothers, in this city, an invention of an Englishman, which, if report is true, is tbe greatest discovery in cotton machinery since the invention of the colton gin. This invention will revolutionize compressing. It takes the colton from the gin on aniron spindle, winds it like batten, keeping the fibes untangled, compresses the cotton sothat a 500 pound bale is about the size of a four barrel. It is said cotton compressed by the new invention will be wurth at least half a cent more a pound.:

Tus "tarbouch," or red foz cap ts the national woar of lexypt and Turkey. They take their popular name from Fea, in Aforveco, where, and at Rabat, they are largely made. Many are also woven at Tunis, but they are sent to Zaborinu to tre dyed red. About 50,000 are manufactured yearly at Rosetta. The larger portion aro, however, now mado in dustria, chicfly at Viema and Strakonitz. from whenco about $5.000,000$ are sent annually to Constentinople and Smyrna. The Tartar merchant will wear a jellow fez, not red.

Malcolm Mchechmeded at his home in Sherbroske on the 3oth ult, at the ripe age of 8 y Mr. Meliechnie was born in Paisley, Scothand, in 1815 , and came to Montreal in 1853 There he started in business as a dry goods merchant Two yoars later he sold out and moved to Sherbrooke, where ho carried on business up to the time of his death. Mr Mcliechnie's father was a Paisley shawl manufacturer, and his first visit to this cauntry was to intro. duce these oods on this side of the water The deceased gentleman's family, which survives him. consists of his widow, four daughters and two sons. One daughter is married in L. I Bayley. dry goods merchant, who succeeded to the businesy of $1: D$ Morkill \& Sons.

Tur natives of the Nicobar Isles have a perfect passion for hats. Tiey delight in possessing them a hundred apiece if possible . in fact, the greater the man the more hats has lie Second hand hats are greatly preferred to now ones, the lateer being regarded with suspicion and disfavor. This craze for hats is so nell known that traders from Calcutta make annual eacursions to the Nicobars with whole cargoes of old hats, which thoy barter for cocomuls, the only product of importance of these islands the native swells will give a fabulous price (in cocoanuts) for a tall white hat with a black band, sixty to sixty-five good nuts being the ordinary price Intense excitement gervades the island while the trale is going on

A considrranae improvement has been effected in the production of Turkey red by the int. - duction into commerce of a new soluble soap recently patented in Germany and Austria, being a compound product of sulphonated onl. alkali, and alumina This soap, it is said, effects oiling and mordanting in a single operation, thus saving much time and labor, without any interference with the quality of the color. The bleached gouds, thoroughly washed are padded, or in any other convenient manmer impregnated with the solution, well squeczed, and then repeatedly ram through a solution of ammonia salt until they cease to smell of free ammonia. They are then well washed and are ready for dyeing. Carbonate, phosphate, or chloride are most suitable, or a misture of these salts may be employed. To 50 lit . of water 15 ks . of soap are reguired : the bath is kept on and male up from time to time. For printing purposes the soap solution is thickened with animal glue. Being strongly alkaline, this new soap may also serve otherwise in dis. charge or resist styles.

A compositios has lately been brought to notice in the texile organs designed to impart a silky appearance to fabrics, the composition, it is claimed, laying the downy fibres, giving strength to the yarn, faciliating weaviug, and insuring a giossy finish to the woven cloth. The composition is produced by boiling one bushel of flaxseed in twenty-four gallons of water until it has evaporated to twenty-three gallons, by which time a thick liquid is formed, this being strained in a sieve and then through a cloth to remuve all forcign matter. Sitteen ounces of Iceland moss are hoiled in five quarts of water and strained, and the two liquids are mined thoroughly together in the proportion of one quart of the former to one pint of the latter: one ounce of whte vegetable war and one half nunce of spermacetiare dissolved in two wine glasses of boilling water, this being stirred into the liquid when hot, and, after well mixing and allowing to cool, half a wine glass of strong linucr ammonia is added to three pints of the liquid an a thoroughly stirred. When in its finishal condition the composition is put into size of flour or other farina commonly employed for dressing yarns or threads for weaving. in the proportion of about iwenty or thirty wine glasses of the former to ten gallons of the latter, according to the fabric to be treated.

Tur lletail liry foods Asmciation, of Montreal, will hold a pienic to limerville. opposite St Johnis, Que, on the 3 ist July

Niclinntrs \& Co, of Tomonto, have purchased the stock of the Colonial Minnufacturing co at auction, at 50 cents on the dollar
E. "Callakhan. retail dry goods merchant, Cornwall, has become financially embarrassed The liabilises are $\$ 9.000$ and the nominal assets $\$ 1$ s.exo. An extention of twelve months has been asked

Tins uses of aluminum do not seem to have been exhausted yet. It iv nou coming into use in the decoration of wall papers. many boautiful conceft:ons being shown in which this metal is a comapicious figure

Tilp weating of cotton cluth in Grecce appears to be making jfugress, fot cireek piece gionds are leginning to be exported to Turkey and wher markets. They are well made, cheap, and duralle The" Socisté de Tisage te Phalere" declared a dividend of 10 per cent last yeir

Tur employes of John Calder $\&$ Co., wholesale clothing manufacturers, llamilton, had a very successful pienic to Niagara Falls, on the 13 th inst.

Alax Frankenibaro, owner of tho new Globe Rubber Factory, Quebec, has returned from Manchester, Eng., where he spent soma ejght weeks, hiring old, experienced hands, 10 add to the staff. Mr. Frankenberg bas 400 people in hls shop.

## THE CROMPTON LOOMS.

The great manufacturing facilities of the Crompton Loom Works have been well employed in meeting the demand for their celebrate: Ingrain, Art Square and upholstery looms. Their new Ingrain loom is a wonderful example of inventive anci mechanical ability, and their Art Square loom holds an especially high position in this line of weaving. Their upholstery loom, with improved box example, is another notable success, combining high spead with nice adjustment.


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Peter Hesenbrush \& Co., Eiberhold. Germany Buttons, Bralds \&c.
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When were your boilers last inspected $P$

Are $t h \in y$ in safe working order ?

# MaRl＇）．．． MOTHING <br> I <br> n English Oak n Flexifort n Cotton and Linen n Natural Rubber n Vulcanized Rubber <br> Send in your orders early． All Clothing ground． <br> <br> The J．C．McLaren Belting Co． <br> <br> The J．C．McLaren Belting Co． <br> MONTIEEAI， <br> TOEROINTO 

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The Propitotor anke for ordera apon his long oxperionce in the contro of tho heary Woolsh kanufaoluring trmdo of Yorkohtre，Engiand．

## Schofield Woolen Co． OSEAWA，ONT． <br> Carpet and Hoslery Yarns Ladies＇and Cents＇Underwear doman＇s tor shifis a sreciality．

エ．S．WTAISOMV M上AMVUEACITIEIMVG OO． IFICESTEF，MASS．


[^0]:    A. KLIPSTREN \& COMPY

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