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## THE MANDFACTURE OF RIB MITTENS.

To make a ladies rib mitten on a 20 or 21 gauge flat-rib machine, each diviston should be about 80 frame needles wide. Use about $2-4$ os or $2 \cdot 42 \mathrm{~s}$, stock of good quality, and as free from knots or lumps as possible. This is important, as, being for outside wear, any defect in either the yarn or knitting is more readily observed than it would be in an undergarment. Commence with a three or four course welt, then four courses of plain rib, another welt, two plain courses, four royal courses, two plain, four more royal, two plain, welt, four plain, fourth and last welt followed by about So plain courses, which will complete the wrist portion of the mitten. In making the welts be sure that they are not made too slack and that it is properly thrown over into the fabric
each time, thus making them clear and distinct from each other. The necessity for this is evident when we remember that the welt side of the fabric is the "face" side on rib rnittens. Having finished the wrist the next step is to make the hand. It is necessary that this por tion of the mitten should be wider than the wrist, and in order to accomplish this result, a change is here made to a royal rib stitch. (As most knitters are aware, this is done by the simple process of impressing the machine needles every alternate course.) This gives us a fabric of sufficient width for the hand, and at the same time the increased thickness of the royal rib fabric offers to the more sensitive hands and fingers an extra protection against cold. Make sufficient royal fabric to extend to the tip of the fourth finger, say about 120 royal courses, then make 18 courses of plain, the sixteenth course being a slack one for the purpose of gathering the ends. This will complete the fabric from which the mitten is finally shaped.

To facilitate the separation of the mittens, a draw thread is sometimes run in previous to making the first welt on each mitten. This is easily done on a frame where there are two carriers, as the second carrier is used to make two courses of fine thread at the end of each mitten of sufficient strength to allow the last one to be cut at each end and drawn out, thus separating the mittens without cutting, thereby getting rid of cut welt, and leaving the cnd of the fabric clear and straight for the end gatherer. . To form the thumb, we cut down the fabric about 27 ribs from the selvage, more than half the length of the royal. Of the narrow portion thus formed, cut off the end about one-third its length. Cut the thumbs from alternate sides of the mitten, in order to get right and left hand. They are then sent to the end gatherer, who will gather up with a needle and wo.l the finger ends at the slack course. The thumb portion they will rove down until it is only twothirds the length of the royal, when they will gather up the ends of it. From the end gatherer they go to the seamer, who seams them up, after which they are inspected and mended.

They are then washed, dyed or bleached, according as desired; after which they are boarded and placed in the drier for a short time. From thence they are taken to the finishers, who examine them and pair them up, tacking each pair together at the finger ends and the bottom of the wrist. Tie them up in dozens and
ship, or, if it is desired to add to their appearance, place them in neat ca:dboard boxes holding one dozen cach.

Such is a rough outhane of a ladies' ribbed mitten and how it is made, as gwen by "Rib Rotary" in the American Wool and Colton Reporter. Of course it can be varied in many ways, as the knitter will at once perceive. If it is destred to make a superior class of mittens he can do so by putteng in sulk welts and stripes in the wrist portien, or, if his frame is suited to the purpose, he can put in a more fancy rib that the royal. He can then indicate the various sizes by .he number of stripes, decreasing one stripe each size. Where an assortment is desired, it is usual to make three or four stzes of infants', small misses', masses', small adies' and ladies'. The infants' stzes can be made about 60 needles wide, the misses' sizes on 72 , and the ladies' sizes on 80 . In varying the length, take care that the proper proportons of plam and royal are retained. The silk ribbed mitens are generally hand seamed. and the dozens ted up with silk ribbons. It is a question whether it would not also pay to tie up the wool mittens with ribbon, as appearances go so far nowadays. The foretgn manufacturet finds it pays to finish of the goods in an elegant manner, and why should not the domestic one?

## SHODDY.

Shoddy formerly meant unly the waste arising from wool during the manufacturng process. To day, however, it has a much wider sugnificance, and the term shoddy is applacd to an almust unhmiteo range of fibrous substances obtamed from all sorts of textile material:. Woolen rags of all descriptions, no matter how old or worn, are now a valuable commority to the manufacturer. Improved machinery, combined with the results of long and unturng eaperiments by manufacturers of woolen and worsted goods, has brought the manufacture of shoddy into an exceedngly important position in the textule feld, and large guantites of this re manufactured fibre are unwersally intruduced intu all varieties of woolen cloths as a substutute fur pure wool The employment of this fibre must necessarily tend to diminish considerably the cost of the fabric, and as the practicabilty of producing an attractive article at a comparawely low price as thus clearly demonstrated, the trade is largely augmented by the use of this matrial. Although much can be sad against the too liberal use of shoddy, the fact is indisputable that, if it were not used in textule fabrics, the result must invariably be an merease in the cost of the fabric to the customer

Many of the millions whe are now able to purchase a woolen garment which is cheapened by the introduction of a hanted amount of shudds, would ntherwise be compelied to go without it if nothing but pure wool was used; for in the tatter case the cost of the material must of a necessuty be far in excess of that of the garment con:aming shoddy.

We may show that the much-despised shoddy is of
great practical use in numerous ways in the fabrication of :woolen cloth. During the period between 1830 and 1835 the value of what were previously regarded as useless woolen rags was discovered. Since that time this industry has been making remarkable progress, until at present many thousands of puunds of the fibre procured from woolen rags is dally consumed by the mills.

A microscopical examination of a handful of shoddy will usually reveal the presence of partucles of cotton, silk, and sometimes many other fibres in combination with the wool. This is caused by the great variety of material which constitutes the man portion of a bale of rags from the junk shop or the street. Clean rags from the tailor's shop, of course, produce far different results. For this reason they are preferable to rags of any other class. The shoddy fibre cannot com. pare with the pure wool fibre in unformity or regularity of structure, or in any of the essental features which are characteristic of wool as a good textule fabric. Nearly all the fine, delicate scales and serrations so promnent in the wool fibre are lacking in that of shoddy. Fur this reason the felting and fulling provertics of the latter are seriously diminished, if not wholly destroyed. The microscope also reveals a great dissimilarity in the diameter of the shoddy fibre, which is probably due to the constant wear and tear to which the exposed portion of the orgginal fabric has been subjected while being used as a garment. The absence of the serrations may likewise be attributed to this cause. It may also be stated that the fibres are partially stripped of their scales and natural serrations by the mechancal operations through which the rags must pass, in order that they may be reduced to a fibrous condition; and the constant fruction of the grinding and carding processes to wheh the material is submitted must in the end result in the serious mu tilation of the fine, delicate structure of any natural fibre. Human skill is not capable of producing a ma. chine so contrived that its mechanical action on the material is not plainly moncated by broken and injured fibres. To reduce the rags to a fibrous furm, they must be ground between powertul steel-toothed or pointed cylinders, the action of whach must mevitably break and tear the fibres white forcibly separating the fila ments from each other. Therelore the substance will necessarily be short in staple, and possess a decided tendency toward brittleness. The lack of elasticity and durability will be easily detected.

Shoddy is manufactured of soft woolen and worsted rags only, such, for instance, as the clippings which come from the talor's shop. This class of rags is always preferable, for the important reason that clip pings from the tailor are generally clean and soft. It is essential, however, that they be fulled but little, for the less they have been felted and matted, the lessgrind ing will be required to separate the fibres. When shoddy rags are required, one of the fundamental con siderations is the condtion of the material in this respect In addition to tailor's clippings, such stock as castaway woolen knit garments and stockings, which have been
but moderately fulled, are acceptable as a shoddy matemal. This class of stock usually arrives at the shoddy mill in a clean condition, and, thercfore, does not requre an elaborate preparation previous to subjecting it to the action of the grinding and separating or picking machnery. The clean woolen clippings from the tailut's shop never call for any other preparation than a litile oiling, while the knit stock probably needs both washing and oiling. These processes being completed, the material is ready tir the grinding operation, which is accomplished by a system of powerful steel-pointed cylinders and rollers.

The method of operation is as follows: The rags or materinal to be ground are fed on to a table or feed sheet which conveys them to two fluted rollers, on emerging frum which they are forcibly seized by the rapidly revolving teeth of a main cylinder. This cylinder contams about $\mathrm{I}, 500$ strong, sharp, steel teeth, frequently turning at the rate of 750 revolutions per minute. This high speed of the teeth of the cylinder results in tearing the rags apart and separating the threads and fibres in such manner that the whole is finally reduced to a soft, woolly condition, and apparently possessing many of the qualities of a good textile fibre. The result of this viulent action of the steel teeth upon the tender fibres of the material, however, has already been shown.

The shoddy picker is so arranged that it discharges the product from the cylinder as fast as it is ground. The discharge or receiving pipe is connected with a stock house The action of the cylinder is such that it creates a strong current of air, which carrnes the light substance along to its final destination. From this point the stock is taken to the carding machine and submitted to its action. It is essential that the clothing tee coarse atd open in order to secure the best results. This operation greatly tends to give a softer and more wool-like feel to the staple.

## Finishing materials.

The demands made of the finisher are numerous and varied. Some goods he is required to make very stiff and at the same time lustrous, while others are wanted with quite an opposite finishing effect. Endeavors have been made of late years to impart a woolly feel to cotton, in fact, the fabric is required to have the feel and appearance of wool, which it does not naturally have. Expert finishers are constantly trying experiments in this direction, and in many instances have then highly successful. It canno. be sad, however, that heavily starched fabrics are no longer wanted. Quite the reverse, for in many instances they are ber ming indispensable, says the Tc.atic Mercury. It is not the present purpose to enter fully into the subject of finishing, but to briefly mention the general merits of it eral of the more important agents or materials used in the finishing processes.

The starches have always been the most important finishing agents, and of these there are several kindspitato, corn and wheat starch, etc. Potato starch im-
parts a i.ard feel to the fabric, and, owing to its contaming some quantity of gluten, it is generally employed for filling with china-clay, and is always used by the finisher when he desires a greater degree of stiffness in the cloth. Corn starch also imparts a full hard feel, but wheat starch produces a full, muld feel. The finish. ing characteristics of flour resemble those of starch. Dextrine, glucose, and glue are agents of the second grade, and are only occasionally employed. Chinaclay is principally used as a filling agent for light cloths.

Of the agents used for neutralizing the rough feel of china-clay and starch alone, and which besides producing hardness, are also intended to produce lustre, the animal fats (especially tallow and lard) are the most important ; then come palm oil, cocoanut oil, bees'- wax, paraffin oil and soap. Tallow makes a full, mild feel, with lustre. Palm oil may be had bleached or unbleached ; and if in the latter condition it is orange-colored, and increases the mildness and lustre of the fabric. Cocoanut oil imparts an appearance similar to that obtained with palm oil, although it is less effective when the quantities are compared. Lard gives a silky, soft feel, Lut must be used only in small quantities and with great care. The thorough boiling of the starch and the lard are indispensable. Soap produces mildness and lustre, wax and its several products harden and gloss the fabric ; and stearine produces a nice, agreeable feel.

Chloride of magnesium is used with china-clay, especially in England; and, on arcount of its property of absorbing moisture from the atmosphere, it prevents the dusting of those fabrics containing an extra quantity of china-clay, but it is not safe to use it for linings, such as moire, which are to retain ther watered effects. It must be employec carefully, because the fabrics finished with it are inclined to become soft and limp, and lose their finish almost entirely when kept in a moist storeroom.

Of the artificial finishing agents to be recommended in small quantities as additions to the different finishing masses, there is senegaline, which is starch disintegrated by soda-lye and again neutralized by hydruchluric acid. This preparation is extensively used in Germany, where it enjoys a great reputation. Cnder normal conditoons senegaline is a transpare.it substance, which dissolies completely when boiled $n$ water for five minutes. It unites readily with all fi.hishing agents, is neutral, and does not attack the colurs. A continued storing and low temperature make it harder and opayue, and when in this c andition it requires to be builed a little longer than usual. When incorporated in the fabric, senegaline is distinguished by a nice, elastic and soft feel, and does not dust. It imparts an excellent lustre, and is used to great advantage in fabrics that require finishing in the calender. It prevents the breaks in gouds strongly filled with china-clay.

Of the oils used for finishing, turkey red oil is preferred to all others, and it answers well for softening the fabric. A point of the greatest inportance is the process of boiling the starch, and yet the opinions of many finishers differ widely, some advocating the continuance
of the boiling for at least 15 minutes, no matter if the paste is sufficiently thick snoner, and others advising to stop the boiling as soon as the starch begins to thicken. For cloths intended to be calendered heavily without becoming too limp, the starcl has been boiled by the writer for smo time; but for other eloths that were to be filled largely, the boiling was shortened.

The finishing mass may be boiled in wooden or cop. per kettles, either with direct or indirect stcam. A mass composed of several ingredients-for instance, different fats, wax, chime-clay, etc.-is to be boiled as follows: First mix the china-clay in luke-warm water; add the fat, soap, wax, etc. ; pour the mixture into the kettie, and boil until yon see that the different substances are entirely amalgamated. Then reduce the temperature of the miature to $122^{\circ} \mathrm{F}$. by adding cold water. The starch is to be prepared meanwhile by dis. solving in it lukewarm water and passing it through a sieve, aiter which it is poured into the mixture in the kettle; then the mass is brought to a boil, and stirred diligently Many finishers boil the china-clay separately and then incorporate it with the starch, heat the mixture to $122^{\circ} \mathrm{F}$., add the proper quantity of fat, and boil the whole thoroughly.

For grey and black limings, especially of!'ght qual. ity, for which a good filhng is the principal requisite, it is not necessary to use starch of first quality: but if it is used, it is to be mixed with a little china-clay. A few establishments in Northern Bohemia finish black and grey mollinoes handsomely by using for the purpose the best wheat starch or prime potato starch, without any addition of chima-clay, or only a trine-at the most 10 lbs, china clay per 80 lbs, starch. This procedure re. guires larger quantities of fat and soap for toning down the stufness, and largely increases the cost of fimishing.

Excellent starching machines for light goods that require a great amount of filling may be purchased, two and three cylinder machines being used for the better grades of cloth. Friction and various other kinds of machines invariably cause the fabric to shrink in breadth, and it is therefore well to place the cloth in the tentering machine before dyeing it, so as to force the breadth, after which the goods are starched. During use the finishes are to be always kept in a thick, viscid, fluid condition, and the fabrics must invariably be starched only on one side.

## CANADA AND NEWFOUNDLAND.

Up to the time of writing the members of the Dominion Government have refrained from saying much about taking Newfoundland into the Canadian unon. If thas is lecause they desire to keep the ques. tion as far as possible out of party polities, their reticence is very wise, but we trust their silence may not be because they are opposed to the union. If Newfoundland joined Canada it would be a good thing for Canada, and a better thing still for Newfoundland. We do not suppose the union would prove to be immedi. ately profitable from a commercial standpoint, although
the transference to us of so large an amnunt of trade as the Island can give us, coupled with the development of enterprises that would naturally follow the incorpora. tion, might soon make up for any loss of revenue from carrying on the Government of the colony. It is in the value of the latent mueral and other natural resources -large sections of which have remained to this day unexplored-that its chief value to us would be. The advantages of the union from the standpoint of the Newfoundlanders would be both directly and indirectly of the first importance. The island would still be a part of the British Empire and its national continuity would be mointained-indeed, it would be more essentially a part of the Empire than at present. Canada would make the interests of the Island its own, and there is nothing at present visible in which the true interests of the Dominion would not also be the interests of the Island. The union would instil into the Islanders better ideas of self.guvernment, of commerce, of education, and let us hope of public life; while it would result in the development of sources of wealth as yet undiscovered in the Island, and the estab. lishment of new manufactures and industries which would give a much better and much to be desired distribution of comfort and wealth among the population. The people of Newfoundland are an honest and hardy race, and their maritime instincts fit in with the genius of Canadians. They are the "hardy Norsemen" of the American continent, and in the future evolution of the imerican mationalities will give us the maritime supremac; for which nature has fitted us. Geographically, as well as ethnologically, Newfoundland shonld be one with us. Such a union, while desirable for its own sake, would be an important step towards that larger federation of the Anglo-Saxon peoples which will include the American Union.

Tire manufacturers of lighe woolen goods, including flannels, are reported to be very busy just now, though there is a general complaint about prices. Reports from the markets of heavy Canadian goods are not so encouraging. The cotton mills are busy.

The textile interests in the Old Country appear to have a good deal of power. The Lancashire members of Parliament have made arrangements whereby the question of duties on cotton gcods imported into India will become one of the crucial tests as to whether they will support or whether they will vote against the Government. In Lancashire the feeling on the subject is naturally very strong, as the county has such immense interestsat stake, and it is a simple question of bread and butter for the mill hands. Upon the attitude, there fore. of the local members of Parliament and candidates ior election depends the safety or the obtaining of their seats, as the case may be. This is why many ap. parently well informed people are of the opinion that this question of Indian duties may easily lead to a severe political crisis in which the Government may easily be ousted from power.

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## CLOTHING WOOL AND COMBING WOOL.

Commercially speaking, wools are divided, savs Charies Vickerman in the Textile Record, of Philadelphia, into two great classes-clothing wools and combing wonls, ur short wo.ls and long wools, and the fabrics woven from them were formerly teimed woolens or worsteds, accurding as one or the other was employed. But we can no longer draw the line in this way bu. ween the th.ogreat branches of the wool industry, for wonls that are called combing wools are now very frequently used for woolen goorls, and wouls that are sold as clothing wools are frequently used for combing. Formerly long wools only could be combed when combing had to be done by hand, but since the successive improvement of the combing machine by Donisthorpe, Lister, Heilmann, Noble and Holden, any free, firm stapled cloth. ing wool of $1 \frac{1}{2}$ inch staple can be combed.

The real distinction between worsted and woolen does not lay in having a long wool for the one and a short wool for the other; you can comb almost any weol that it suits your convenience or requirements to 6 mbs, or you can take any of the so-called combing wools, and use them for clothing purposes-the distinction is not in the wools, but in the two distinct modes in which the wool is worl:ed, or manufactured into yarns. Take identically the same wool, and follow out certain modes of working, and the result is you have a worsted yarn-follow out certain other modes of working with the same wool, and the result is you have a woolen yarn.

I will approach the consideration of the structure of the woolen thread from the negatuve side, and show, first, what the woolen thread is not, that we are not en. tilled to call any thread we can manipulate out of wool a woolen thread in certain senses, because a worsted thread is made of wool, and yet we don't call it a woolen thread. we very properly call it what it is. a worsted thread. We must designate garns according to the modes in which tisey have been produced. But some at this point may now be ready to ask: What is a worsted thread, and what is a woolen thread, as you say the distinction is not in the wool? I will try to answer both these questions, and in order that we may realize to out own minds more distinctly the difference in question, 1 wi!l first show as rapidly as I can what the woolen thread is not, that we may' see more clearly what it is by the contrast. We will take a lot of wonl, say fourteen baies, and in order that there may be no mistake as to our starting from exactly the same point, and with exactly the same material in each case, we will furn the wool out of the bales, and make a square pile of it upon the floor of the woul-room, making a layer of each, so that the whole may be of unform qualaty when takea diwn off one end. Having our pife of wool farly mixed and fairly divided aram into two equal portions, you see clearly that there cannot possibly be any difference in the matcial 20 begin with, and any resulting difference in the end must be wholly ascrabed to the difference in the processes employed in converting the
one portion of the wool into worsted varn and the other portion into woolen yarn.

Let us procecd, then, with that portion of wool that is intended for manufacturing into worsted, in order to snow in the first place what a woolen thread is not, and then afterwards point out by contrast, and more in detail, what a woolen thread is.

The first operation is sorting the wool into two or more qualities and taking out the short wool, technically termed " shorts " or "brokes." The short wool has to be taken out for reasons that will appear presently. After sorting, the wool is next taken and scoured, to rid it of its natural grease or yolk, then partially dried ; it loes not answer to have the wool thoroughly dried as when preparirg for woolen yarn, and at many places it is not put on the stove or drying machine at all, but run through a pair of very powerful press rollers out of the warm liquor and forwarded at once to the carding engine. From the carding engine it is doffed in a rope sliver and formed into a large ball; several of these balls are placed in front of a gill-box. The gill-box is a narrow trough or box with a pair of drawing rollers at each end, and across the bottom of which, transversely, are placed rows of gill pins. The object of pulling the sliver through these rows of gill pins is to roughly force the fibres into a form parallel to each other, just as you force portions of your warps into parallel order by pulling the warp through a fine raddle. The gill-boves serve the purpose of raddling the slivers and compelling all the cross fibres to fall anto rank, and march in order with the regiment. The slivers are crossed and re-crossed by being put up eight or ten at a time, and passed sometimes through two and sometumes throigh three gill-boxes, before the slivers are fit to send to the combing machines.

I may here say that the object of carding the wool is to break up the natural arrangement of the fibres of the wool in which it grows upon the sheep's back, that is to say, to break up the natural arrangement in order that the fibres may be arranged artificially into textile threads. The object of carding is the same whether we intend to convert the material into worsted or woolen, viz.:-to break up the natural "tufty" form in which the wool grows upon the sheep's back, to bring it into a complete chaotic state in order that we may be able to subject the fibres to any artificial arrangement we may determine upon, according as we may want to convert the carded wool into worsted or inio woolen thread. Prior, however, to the commencement of this artificial arrangement, another process has to be gone through at this point with a view to worsteds, viz. :-that of combing, to get out the noll. The term is from the Latin, and means "knotiy," or "not do." I have just said that the combing has to de performed in order to get out the noils, and the noils is tha: portion of them that is short, curly and knotty, and which will not do for worsteds, and has to be sold as waste along with "shorts" or "brokes.' After combing, the top or sliver is again passed through gill-bjees 10 get the strajgling fibres
again into their ranks, after which it goes to the drazoing frume, and then the roving frame, till it finally reaches the spunnug frame-here the roving passes through a parr of strong aron rollers, and thence through two or three sets of carrier rollers of much lighter build, and then tinaily through the front rollers, each set of rollers runmang quicker than the set preceding it, thereby elongating or drawing out the roving to the requisite degree of fineness, and as the finely attenuated sliver emerges from the front, or final set of rollers, it begins to receive the twine necessary to give strength and firmness, and when it has descended to the spandles and has heen wound upon the bobbins, the manufacture is completed, and it is a worsted thread. The result is reached by two smple processes, conducted continuously, and following each other consecutively. First. the sliver is drawn out to the requisite degree of fiseness by means of rollers; then, secondly, the twine or twist is given afterwards as a separate and succeeding operation.

The spring millinery openings in Toronto are to be held on the $26 \mathrm{th}, 27$ th and 28 th inst., and the Montreal openings on the 5 th, fith and 7 th of March.


Tue dry goods trade figures well in the commercial councils of the country. Many dry goods merchants are to be found on the committees of councils of the boards of trade for 1895, while the boards of three lead. ing cities this year have wholesale dry goods merchants as their presidents. E. B. Garneau, of the firm of Garneau, Sons \& Cu., is president of the Quebec Board of Trade; Stapleton Caldecott, of Caldecott, Burton $\mathbb{\&}$ Spence, is president of the Toronto Board of Trade ; and James A. Cantlie. of the dry goods commission firm of James $A$. Cantlic $\mathcal{E}$ Co., has been elected president of the Montreal Board of Trade. Mr. Cantlic, who has devoted a great deal of time to the interests of the board for the past two or three years, is a native of Banffshire, Scotland, and came to Canada in iS63. In the early years of his business career in Canada he was connected with the firm of which Sir George Stephen, now Lord Mount Stephen, was head. Mr. Cantlie is a shareholder in a number of textile manufacturing concerns.

It has long been thought that ramic would even. tually prove to te one of the most valuable of fibre plants, and for some time past experiments have been undertaken in order to render the various processes through which it is necessary for the leaf to pass before the fibre is turned out in a finished condition, sufficiently cheap for it to be produced on a commercial scale:

Now we hear that these experiments have borne fruit, and that a plant is being gut ready for operation in Albany, N.Y.. for the purpose of manufacturing yarns, fringes, cloths and even gloves from this new filte, rame. The factory, it is said, will have a catpacity for consumbing ten tuns of the raw matenal every week. Part of the prozess empluyed in bringing the fibre to its final beautffully white and glossy appearance will consist in submittin, it to heat and chemical action, it will then be strippe sind begummed, and afterwards bleached without the aid of chlorine or other deleterions agents. The strength of this fibre is said to be greater than ether flax or silk, and apart from its use as a complete fabric, it will no doubt be largely employed for mixing with other fibres in fire hose, rope and other products requiring strength and durability.

The coming great Cotton States Exposition at Atlanta, Ga., will have one novel feature at any rate, namely, a negro building to be built by a negro firm of contractors and all negro hands. Competition was open to all contractors, and the lowest tender was sent in by negroes, who thus won the contract on their own merits. This will no doubt be sufficient to give to the Exposition the greatest interest amongst the colored population of the South. It certainly looks as if the Exhibition is to be a great success altogether. At first the State exhibits, which the projectors of the scheme wished to make a very important feature, seemed rather slow, but during the past few weeks a number of States have begun to take active interest in the Exposition, especially those in the South. Amongst those States which have in the past failed to appreciate the importance to themselves of good representation at international and inter-state exhibitions, but which are now about to redeem their character in this respect, is Florida, whose beautiful and peculiar products are to be fully represented. The Indian River Railway, lately completed as far south as tropical Lake Worth, will have separate representation, and Mr. J. E. Ingraham, the widelyknown land commissiuner for the East Coast, has just been appointed by Gorernor Mitchell special sommissioner for the State exhbit. From all repurts, the interests of Flo.ida, which is now attracting such wide attention to itself, could not be in better hands. Many other States will no doubt shurtly follow this enterprising example.

Jous Macdonam \& Co., Toronto, write us that there is no truth in the tem in our December issue stating that they were making a cut in their employes' salaries; and we accept the firm's denial. It is now said that the real sinners were another firm in wholesale fancy dry goods and millinery, who solicited the other houses to follow their lead in a general cut in wages. We say "sinners," but the word is used in a Pickiwickian sense, for we do not see any crime in asking employes to share with employers a reduction of income in a time of depression. Scarcely a wholesale dry goods housc in Canada has had anything to the
credit of profit and loss during the past year, and some have not even held their own. Assuming that wages previously patd were liberai, it would be only reasonable that clerks, travellers, and employes generally should be willang to accept such reductions in their salaries as would enable the heads of their houses to regain some small profit in the year's transactions, or at least to carry on business without a loss. We would go further, and say that such a readjustment ought to come as a voluntary proposition frum the staff of a house, once they understood the situation, rather than as an ultimatum from the firm. We frequently hear of the greed or tyranny of the conductors of wholesale houses, but we do not realize the amount of selfishness, carelessness or indifference that prevails among employes-both men on the road and men in the office. How many travellers have made personal sacrifices either in the work they have done or in the matter of hotel luxuries on the road during the past year, because of the reduced volume of trade that has gone to their firms; or how many clerks in the office have made up in extra work or in extra cconomies in their own sphere in orjer to help to equalize the heavy outfow of eash and the light inflow of trade that may have been going on during the past year? Out of each hundred emploges how many can come forward with satisfactory evidence on this point? The fact must be confessed that the heads of mercantule houses possess no monopoly of the sins of greed, selfishness or indifference. A certain average of these faults is to be expected in the nature of things, but a p'an of escape from their worst effects may be found in the principle of profit sharing. In that plan the very selfishness inherent in human nature leads to coonomy and mutual constderation in tumes of depression: and while employes share in the effects of the " lean years," they also share in the fatness of prosperous years as a matter of course.

## BRITISK TEXTILE TRADE WITH GANADA.

The following are the values in pounds sterling of the exports of wool and eextile fabrics from Great Britain to Canada for Dec. and for the eleven months ending with Dec., as compared with the same periods of the previous year:-

|  | Moath of Dec. |  | Twelve mose ended Doc. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1893 | 1898. | 3:93. | N,9, |
| Apparel and slops | ¢:2.997 | \{: 9.552 | \{335.09: | \{295.305 |
| Haberdashery | 9.0.9: | 5.713 | :53,483 | 144.647 |
| Wool | 613 | t,018 | 22,310 | 84.387 |
| Cotten piece-roods | 45.052 | 62.542 | 585.781 | 437.259 |
| Jute plecescods | s.css | 8.916 | 137.863 | 99.040 |
| Linen plece-goods | 10,656 | 9.055 | 139.406 | 111.637 |
| Silk, lace | 8,007 | 3.739 | \$1.090 | 3:,023 |
| - arsicles partly of | 3.233 | 4.965 | 70.990 | 41.788 |
| Woolen fabrics. | 10.413 | 23.947 | 343.977 | 255.525 |
| Worsted Iabrics | 50,650 | 35.356 | 668.949 | 463.573 |
| Carpers | 22.655 | 9.9\$5 | : 27.605 | 20.123 |

The great decline inthe exports from Great Britain to Canada for last year, compared with the ore previous, bardly needs pointing out,

## MOHAIR.

Mohair is the name of a certaln goat, the flecee of which possesses a beautiful lustre. The goat gives tis name to its flecee. and this again gives the name to a dress.goods fabric. The mohair goat was originally confined to Asiatic Turkey, but the demand for the fleece was so great over thirty years ago that the original feeding ground was found inadequate, and attempts were made to climatize the goat elsewhere. The only successful attempt was that made in Southern Africa, where a considerable quantity of this fleece is now raised. Some little is grown in the United States and Mexico, but the lustre, which is the chief attraction in mohair. is very poor in these fleeces. The best mohair is still grown in the valleys of Asia Minor, where the rich pasture ground along the rivers gives the most nutriment to the goat, and the rich alluvial deposits of soil prevent the fiecee from coming into contact with the limestone of the rocks in the higher grounds. Cape mohair is a very strong competitor, and progress is yearly being made in its growth in that region. The fleece is long and of about the same quality as the quarterblood domestic fleece. Of all hair grown on the back of an anımal it possesses the most lustre, and when properly managed and couverted into goods specially desired to show off its bright properties, it is as lustrous as silk.

Mohair is exported from its ground of production in large bales, chielly to Liverpool, and is there bought by manufacturers of every nation to be converted into goods. The initial stage of the proeess of its manufacture is very similar to that of wool. It is first sorted into qualites. but this operation is much more difficult than that of sorting wool. The qualities found in the mohair fleece are not as regularly placed as in a fleece of wool, and it consequently requires more care to gather these respective qualities together Its color is chiefly white, but there is a fair proportion of mixed black and white fiecees, and brown and black flecees.

The sorting of mohair is attended with some risk to health, for the fleece of the dead animal is often put in the same bale with the feece shorn from the living animal, and as the former is of a poisonous nature, the sorting has produced a very fatal malady. which is known as "wool-sorters' disease." This poisons the blood, and while it is not always attended with the same symptoms, the arms. legs and boty of the afficed generally swell to unusual dimensions, and the bloot is thoroughly vithated. So far this disease has baffed medical science. and all persons afflicted with it soon die. Its attacks are rare: yet in England, where the mohair is chiefly manufactured into goods, the factory laws enforce strict regulations regarding its sorting. based on sanitary and disinfectant precautions. After being sorted the bair is thoroughly washed, and there all fears of its danger to health ends. It is next combed, drawn and spun into yarn exactly in the same manaer as wool, and is ready for the looms.

Some time ago mohair dress goods were very popular, and are yet sold to a limited extent. These are made out of a good cotton warp or chain. with filling made of mohair. They are dyed and finished very much in the same way as alpaca pieces.

Mobair is to-day more extensively used in the construction of pile fabrics, which, as regards the materal forming the pilc, are commonly known as mohair plushes. These are very popular in the upholstery trante, and have in a large measure replaced hair-eloth-covered goods. They are woven on a pile loom, which is perhaps the most ingeuious textile invention of modern times. A pile is prodeced by cutting the mohair warp or chain, so that this cut may form a down on the surface of the piece. It is done in various ways, bat a descriptioa of two will be sufficient.

The first way, and the way that produces the most regular and even pile. is by means of what is known as a wire-lorm. A mohair wire-loom is similar to a pile carpet loom. and the pile face is produced in the follotiag manner: A wire-loom has two warps or chains. In the caso of a mohair plosh one of these warps or chains is mase entirely of mohair, and this rarp stands in the loom above the other warp. The bottom warp is cotton and forms the fabrie of the cloth. The mohair warp forms only the mohair pile of the face. The flling is cotton, and this filling, together with the cot-
ton warp, forms the fabric and the strength of the cloth. just as the molain warp forms the pile of the cloth The two operations foo at the same time, and as the cotton warp and cotion filling weave up the fabric, a wire is thrown through the mohair warp just in the samo way as a cotton thread is thrown through the cotton warp This wire retains its place until the mohair warp has been bound in the fabric of the cloth by the cotton warp and filling, and until other wires behind it have repeated the same process A part of the mechanism of the loom then grasps it and draws it out, and as it has a sharp edge this edge cuts the mohair warp on the face and produces the pile The weaving of pilo mohair by this process is slow and consequently expensive, and is going out of date

Another method adopted in making mohair plush weaves zwo piecesat once. In this case there are always three or more warps or chains, two-the top and bottom-of cotton, and the others mohair, which are run between the cotton warps. The filling is again cotton, and this and the cotton warps make a fabric having a double shell of soundly-woven cotton binding the mohair warp firmly in the centre As the weaviag proceeds a sharp knife runs across the piece in the centre, on every fourth pick of the shuttle, and divides the two pieces, thus cutting the mohair which forms the pile. A very ingenious contrivance in the shape of two little rollers covered with fine emery dust grinds the knife on its seturn from each journey, and thus keeps it sharp.

The pieces being woven and the pile produced, the next process is to present the pile in the best possible shape This is a very difficult matter, and requires a great deal of experience and care The geods are dyed, steamed and subjected to great heat, and in this condition are beaten by men with sticks so as to bring up the face The intricacies of finishing plush are 100 mysterious to warrant description, subject as they are to a great deal of the rule-ofthumb. Few. however, have any idea of the ingenuity displayed in the preparation of a piece of mohair plush before it is ready for the upholsterer. -Dry Goods Economist.

## GERMAN TEXTILE INDUSTRIES.

The factories are to be found in nearly all parts of the empire some branches of the trade having existed in their different centres since olden times The woolen industry has been highly developed in Germany for centuries past It occupied itself principally with the production of cloth, for which the home.grown wool formed an excellent raw material, and carly procured for these articles a worldwide renown.

The woolen manuficture of Rhenish Psussia, which still holds be chief position, had already attained importance in the twelfth century, and even then exported its products. A little later this industry extended to Brandenburg. Saxony and Lusatia, and reached there, also, a high state of perfection.

The change of fashion, which has for a long time past neglected plain cloth in favor of fancy patterns, has greatly diminished the importance of the bome cloth industry and obliged manufacturers to turn their attention to other articles. This alteration was brought about by the large quantities of wool which for some decades has. in ever-iscreasing proportion, been broughs from forcign zountries. especially Australia, Argentina and Cape Colony, to the manufacturing countries: wool which, however, has not the short. curly quality of the Electoral shecp, suitable for the production of cloth. yet forms an excellent saw material for various projucts of the woolen industry The German manufacturer has conformed to the change of fashion. and is to-day one of the greatest consumers of sea-borae wool.

Among German woolen productions are particularly to be named cloth, buckskin, and materials for men's suits and overcoats. as well as for ladies' mantles in 'all the diverse kinds adod qualities demanded by fashion. Some of thess are exportet direct, others are made up by the great lajies'-mantie makers and are largely exported.

The principal centres of this industry are the towns of Aix-laCbapelle. Dürca, Eupen, Lemaep, cte, in Rhenish Prassia, 2s well as the provinces of Bandenburg, Silesia, Saxony, Lusatia. with rumerous places excelling in their own particular productions,
among which are to be mentioned Berlin. Cottbus. Spremberg. Schwiebus, Forst. Sagan, Sprottau, Sommerfeld, etc.

In addition, the manufacture of dress materials partly of pure wool. partly of wool mixed with cotton, is of conspicuous im portance. The centres of thes industry are Saxony, Silesin. Rlienish Prussia, and Alsatia. Gera and Greiz have not only preserved their old renown in the production of merinos and cashmere, but manufacture combed wool materials in excellent qualitics for ladies' and gentlemen's garments, which are exported to all parts of tho world. For colored woolen dress materials Alsace, with a highly developed industry which occupies a leading position in matters of fashoon, and also Glauchau and Mecrane, must be mentioned.

In materials for furniture, Chemmitz, as well as Elberfeld, is pre-eminent The manufacture of furniture plush (Utrecht velvet) is carried on in Rhenish Prussia and Westphalian Elberfeld. Viersen, Mulhem on-the-Rhine, and Bielefeld The shawl indus. try has its prancipal seat in Berlin and the Bavarian Voigtland. and exports to all foreign ports, whilst the manufacture of fancy cloths, woven and crocheted shawls, hoods, etc., supphes the mar. ket of the world from Berlin, Liegnitz, Apolda, and other places

Berlin is further noted for a specialty, viz., the manufacture of plush for cloaks and caps. Articles of this kind, which are almost exclusively made here-especially imitations of fur-are exported to all countries.

The carpet industry boasts of a high development. and produces Brussels, velvet-pile, tapestry, and Axminster qualities. of considerable importance is the manufacture of Oriental carpets in knotted work. which aee made in excellent qualities and patte.ns. and are largely exported. As centres of manufacture we may note Schmiedeberg in Silesta, Cottbus, and Hanover.

The spun materials employed in the woolea industry (combed and carded wools) are for the most part produced in the country itself. The industry of combed wool spinniag has largely expanded. conforming itself at the same time to the preference shown of late jears for combed wool materials. Dyed zephyr wools (Berlin wools). aided by the remarkable achievements of the dyemg trate. form an important article of trade and export.

The importation of fore.gn dressed and undressed wools amounted in 189 t to 153650 tons, added to which the home production was about 24.400 tons, so that. delucting the export of 24.400 tons, the consumption of woil in Germany amounted to 853.050 tons. The number of spindies in use for combed wool is estimated $a_{1}$ $1,600,000$, and for carded wool at $2.000,000$. The whule export in woolen manufactures amounted in 189x to 29.750 tons, the value being 228.000,000 of marks.

The German cotton industry is highly developed. Germany possesses about 5.500 .000 spindles, and in 1895 worked up 237.000 tons of cotton. The importation of foreign textules amounted in iS9: to 15.870 tons, chiefly in fine qualities. As specialites in this branch we may mention the manufacture of sewing and knitung cot:ons, in which Saxony. Bavaria. Baden and Alsatia greatly excel. Turkey red cotton forms an important artucle of export.

The cotton spinning manufacturo not only produces nearly all the material necessary for home consumptioa, but also exports largely Plain tissues such as calico, shirtings, etc., are principally manulactured in Bavaria, Alsatia and Silesia. In the first-named are to be mentioned the district of Suabia, and that of Neuburg. with its principal centre of Augsburg For velvets and velveteens are to be named Linden, near Hanover. Etthngen (Baden) and Berlin. whose productions may be classed among the finest of the Contineat and are largely exported.

The weaving of the colored goods, which includes articles for men's and women's clothing. is most Alourishing. Alsatia. Rhenish Prussia, and Weetphalia, as well as numerous districts in Bavaria. Würtemberg. Saxony and Silesia, are important centres of this industry. The manufacture of nansook, muslin. Ranneleties. piqued, sateen, colored stuffs for table-cloths, bed covers, dresses. and aprons, is very important, anci works largely for exportation.

The bleaching. dyciag and dressing of cotton goods, which are greatiy in demand, stand on a high level. The whito and colored
stufts for lininge, shirungs. chiffons, etc., are admirably made and find buyers in all parts. In disatia, Silesla and Bavaria bleaching and dressing are important industrics. Printing is ono of the most important branctacs of the German cotton trade. The productions of Alsatia in the domain of printed stufts for furniture and dresses are world.renowned, its manufactures being superior both in beauty of pattern aud neatness wl execution. and have a ready sale in all countries. Another chuel centre of printing is the Lower Rhine. espectally the towns of Elberfeld and Dusseldorf

The whole export of cotton goods amuunted in 1895 to 27700 tons of the value of 147 miltions of marks, and that of plain and pattorn goods to 87.000 tons, of the value of sixty millions of marks

The litien industry in Germany is of great antiguty. Favored by an extenaive cultivation of fax. it not only supplicd the wants of the muntry but experted largo quantilies of thread and linen to ofher countrins in spinaing. the spinning jenny has almost entirely supplantert the spinning wheel, and the mechanical loom is con'ing more and mnre into use. although the hand loum still forms an impnrtont fartor in this branch. Thero are about 273,600 spindles. 30,400 thread spindles, 13.500 machine and 250,000 hand looms.

The principal districts for this branch are Silesia, Westphalia. Saxony Havaria and Wiartemberg. Silesia has numerous branches of the linen industry which are carried on both by machine and hand limms its inmask weaving is most excellent. The manu factures of bielefeld are of old repute. Wurtemberg has taien as its sperially the imitation of the handweaving of lceland. the textures are leautifully and closely woven, and are generally of the best materials

The productions of linen weaving are varied, cloth for sharts and bedcluthes. fawels and handkerchiefs, tablecloths in jacquard and damash. huckahack bed-sick canvas, ctc., and halt linen half culton gourls in numernus assortments Great attention is paid to the designs in impmetant article of export is damask table.linen.

The export nflinen goods amounted in the year 1891 to 3,200 tons, of the value ni $19 \%$ millions of marks.

The manufarture of under-linen is carried on extensivels, more espectalls in Berlin and lielefeld It produces ready-made shirts. collars, and cufts, and is capable of exporting largely. The export in 1 Sol anounted $10: 360$ tons. of the value of nine millions of marks

The jute trate las largelv prospered in the last ten years, and has in use abnus ${ }^{\prime}$, 700 ordinary spindles, 2,000 thread spindles and 3.100 michine looms. In 880 no less than 82,000 tons of raw material were worked up

The German silk irade ins its centre in Rhentsh Prussia, particularly in the divtrict of Crefeld. and is a great factor in the trade of the country its productions are well known in all parts of the glole

The most raried fabrics are produced: black and colored materials of the heaviest gualities for dresses, as well as the thunnest for linings . pateorn aiks for dresses: fancy irimmings in pure and mixed silk. sateens materials for umbrellas, cravats, and clerical robes. plush. black and colored piece velvets, and nobon velvets. In most of its products Crefeld holds the first postion amonget competing rountries Of late the machine loom has been used more and more in this trade. In the districts of Crefeld in $\mathbf{8} 90$ there were in uso for piece and ribbon velvet 3.204 machine and 7.893 hand looms, for silt stuffs $=1484$ machine and $r_{4},=63$ hand looms In these districts tho turnover in these articles amounted 1091.000,000 marks

Besities Crefeld the silk and velvet trado is noted in Elberield, Viersen. Gladbach, Muiheira-on,Rhine, Bielefeld, as well as in Frieburs in laden, and in Lipper Alsatia. Tho export of pure andmixed silks amounted in 189 t to $: \$ 6,000.000$ marks.

Hosicty is of greas importance in Germany, and largo quanti. ties are exported The chief places for this trade are Saxony. with Chemnitz as the centre of a kreat irade, as well as Middlle-Franconia in Bavaria, and the district of the Black Forest in Niurtemberg. The misnufacture is carriod on in large separato establishments. which are equipped ailh the fatest machiaery The irade is assisted
by the excellent native engincering shops, wherein ard made the best machine looms.

The export in cotton hosicry in 189 amounted to ri,ioo tons. of the value of $43,000,000$ marks. in woolen hosiery to 4000 sons value $36,000,000$ marks

The frimming industry is brought te great perfection and excels as well in staple grods as in novelties Barmen enjoys a great reputa. tion for its ribbons, cords, laces, galoons and other articles, whilst trimmings for ladies dresses, ctc., are made in accordanca with the changes of fastion in Berlin, donaberg. Buckholiz and other places. There were exported in $18 y$ it cotton trimmings to the value of about $t 9$ million marks, in woolea trimmings if miilion marks. and in pure and mixed silk 10 million marks

The lace industry has more especially its seat in Saxony. where it forms an important occupition of the women of the country and produces the various descriptions demanded by fashinn The different kinds of lace male are Mantilly. Mechlin, guipure, and Valenciennes. In addition there are made from cotton as well as silk, capes, pellernes, parasul cuvers, veils, and similar things Machinc-made lace and embrodery are principally made in l'auen, and are largely exported, the manufacture of curtains is also carried on to a large extent.

## A LETTER FROM PARIS

Retailers are complaining, and with some reason, of the dulness of trade The frost came too late to create any amportant demand for winter grods. and. moreover. it lasted too shorm a time. The sudden changes, such as we have experienced of late, are never beneficial. they create a feeling of instability in the minds of the public, and make people sh; of launching forth into expenses that may be rendered useless by the rise or fall of the thermometer. One can rail against the weather. and few persons depneve themselves of the pleasure of doing so in spite of the vanty of at. Perhaps it is almost as vair to deplore the tendencies of fastion. nevertheless, some slight good may come of it in the end. Continual change in fashion is rertainly not advantageous, but hardly anything can be worse than the present condition of things, namely, the status quo which admita of all sorts of novelties being taken up without any being set aside to make room for them. It is trightful to contemplate what an extraordinary amount of stock retailers must now lay in to be able to keep up with the demands of some go-ahead customers, white those to whom unnecessary change meins unnecessary expenditure. are content to wear what they have, and so econnmize largely. thanks to the mertia of la moric.

The consequences of this state of thangs are likely to be felt very seriously during the coming season. It would be of infinite service to retailers if the fashions for spring were more clearly defined, if the big couturiers and milliners were to strike out some new path that could be followed by all. But this they will not do, and gerhaps it is hardly surprising. It is war to the knife between the drapers and the dressmakers; the former have done great injury to the dressmakers by setting up work-rooms on their own account and absorbing a great deal of the busimess, and the latter cannot be expected to barbor particularly friendly feelings towards the men who have supplanted them. It is the one effort of their lives to contrive styles and invent stapes that cannot be easily copied wholesale, and to leave everyone as much as possible in the dark with respect to their future intentions. And who can blame them? Doubtless thes are often victims of their own measures, and the floating instability of fashion affects them also, though to a lesser degree than their rivals, while their reluctance to allow outsiders -and especially those connected with the press-to penctrate the mpsterics of their preparations. loses for them many oppor tanities of attracting the attention of the public to thetr establish ments.

As wo near the close of one season and approzch another the dilemma increases, and the difficolty of deciding any matter whth safety becomes greater. One thing seems verj certain. the prospects of silk are extremely good. The very marked reduction in the prices of silk materials must bring them into more ordinary use For the same reason, also, the demand for fancy goods-woolens
interwoven with a certain amount of silk-will be increased, and siso that for fanciful admixtures of all sorts. It must not be anaguned, inowever, that all-woul goods are losing ground. Custom has ordaned that for ordinary wear out of doors silk is not applicable (as the principal material of a costume), whereas the immense improvements made in the manufacture of wool and cotton fabrics and of cuison fabrics made to look as much like wool as possible, will tempt tha public more and more-stat purtion of it to which cost is of moment-to set aside therr old prejudices against them.

The price of all-wool goods is mantained almost at the old ugare, whereas silk has lost in value, therefore in making up readymade modets the retaler will naturally bo induced to combine the two, as better effects are thus obtained at a slight increase of cost. We shall see a great many of these costumes made with plentiful trimmings of salk, full fronts, yokes, plastrons of all sorts on the bodıces, borderings, panels, etc., on the skirt. The braiding machno will be brought into play, and for the earlier months of the season, at least, brading, embroidery and spangles will be in hagh favor. Lace will be more in demand than ever, and in all kinds, the craze for Brussels application has led to varoous attempts veng made to improve the manufacture of imutation lace of this sort, and very successfully. The machane embroidered net of the better sort may be easily mistaken by ordinary eyes for real Brussels.

There is no matter of more importance to the retaler than color, and every indication that may be a guide to him in the sclectoon ot materials for the coming season is of value. I am therefore glad to be able to say posittvely tha: Patisians are beginnang to show a very marked partuality for every shade of volet, mause. thac, and pearl grey. This partuality is particularly evident in sitk dress materials, trimming silks, and millinery generally Shaded and glace effects are often obtained by the admuxture of these colors wath others-dull green. light brown, dark blue, etc. It does nut make matters more easy that cach tine of goxds has us special scale of colorang. Thus dehcate pompalour tints are in hagh favor for brocades and other figured silks, while for plan and printed surahs and satans. gauzes and crépuns, bright tints of rose-pink, salmon, golden yellow, maize, fuchsia. red. mauve, turquoise blue, and fresh sprong green have the lead. These are now usel for evening frocks, and also for making smart blouses, chemisettes, cravats. collarettes, and the like, and later on they will be required for smart costumes.

The muslins and cotton crepons, the cambrics, and also the mousseline de-lannes, which promise so well for the coming season, melude a more varied style of coloring, now assuming delicate pompadour hues, now brighter shates. So far as the thicker woolens are concerned. light browns, fawns, beiges and greys, with rather bright dark blue and green, will predominate largely among plain fabrics: those which exhibit small, ill-defined patterns have a preponderance of such colors relieved by the antroduction of bright positive tints. There is a growing tendency towards plaids and checks, which are likely to be worn very much between seasons. They are provided in a great variety of combinations, and include very dull harmonies as well as brillant contrasts, and must be described as ultra-fanciful plaids, tartans hardly counting at all, and then only in mixtures of green and blue, sometunes with crossed lines of bright yellow. Many of the checks are produced by the crossing of rather narrow strpes with narrower lines-arrangements whici are extended to ribbons.-Warchouscman and Draper.

## THE CHANGE IN WOOL PROCESSES.

Since the days when Leipsic Fair ruled the prices of fine merino wools anj superfine Silesian often commanded 25 much as three shillings and sixpence per pound, great and many changes have been witnessed, both in the supply, the prices, and the use of this siaple article of commerce. The high prices of this class of wool were due to its suitability for the manufacture of broad.cloth. superfine flannels, shawls and other costly goods, including the felt tor covering the hammers of panolortes. The inherent qualities of the Silesian wools were great. and the:r mampulation a pleasure
to the workers, who took great price in the handling of such mag nificent stuff. Skilled hands put forth their best effor s, and he knowledge that their handiwork was olten destined for tie nobiity and the courts uf Europe inducid them to put out their very lest efforts in the production of fabrics without a rival

In those days shoddy was almost unknown, and mungo scariely invented, and manufacturers' ijeas then were tu produce the finest goods possible, knuwing that a price in propurtiun was always cer tain. On these lines the foundation of many a princely furtune was then laid. Hand labor predominated, and as much dependel on the worker as un his implements, which were crude cumpared with modern inventions. Yet the trained skill of these workers was of such a high order, and their diligence and patience so great in their employment, as to render their productions the best in the world of their chass, the admiration of all countries, and the fure runners of a commerce of the first magnitude at the present day

With reference to their methods of manufacture, we have an opportunity of comparing tneir first prucesses with thuse of the present day. Wool sortmg, for instance, was then, as now, wone by hand-a process of manual habur apparentl, beyod the skill of the inventors tu abolish. We cannut say the same of the next pro cess - wool washing, or wool scouring, as then termed. The leading makers of machines for this process have succeeded admirably in turnigg out an increased quantity at less cost, but in the present writer's opinion they have scarcely yet succeeded in excelliag the work of the old hand process. This point is, of course. open to some question, but it is significint that dyers prefer hanl-scuured wools for their delicate shades and bright tunts, because they say they are more free from yolk and yield greatet brilliancy cif color.

The Belgians are noted fur their carded wool yarns and their wool-washing establishments. Their system of washing is a com binatisn of the twu. The wuol is first soaked in a sulut un of am monta, then passed through a machine containing hot vater and soda, and finally passed through a flushing tank or cistern which is suppled with a good stream uf water by centrifugal pumps On the face of it this seems a veiy claburate system. but when we cun sider with what class of wool they have principally to deal, the necessity for all thas treatment is at once apparent. Wool: from the River Plate form the staple articie of these card ng and spinning establishments. This.wool is surcharged with grease and :and to the extent of 60 and often 70 per cent., and, singular tu state, this con dition is said to be deliberately contrived at by the growers and flock masters. It is said that when shearing time comes round. men and dogs are emplojed to chase the sheep. under the heat of a broiling sun, until they are in a state of profuse perspira ion, they are then caught and rolled in sand, and afterwarda shorn Certainly no other class of wool arrives in such a heavy condition. which lends very strong color to the statement

The Belgians, in order to cleanse these wools thiroughly. employ soda as a scouring agent very extensively, and ilso bring chemical knowledge to bear upon the process, so as to condine the fat in the wool with the sodn, and thereby produce sapon.fication. In this manner the fat becomes one of its own cleansing agents. Still, the sand remains to be contended with, and it is here where the value of the flushing tank comes in The fat or grease is afterwards recovered from seak tanks-aiter the manner of recover ing oil-and subsequently used for making gas This system of scouring is admirable and very effective for this filthy class of wool, but, after all, this drastic process leaves the wool hard and crisp, and would be the ruin of the fine Silesian wools previously quoted. In the two classes-Silesian and River Ilate wools-we find the two extremes of quality, the finest and the lowest of the merino breed. We also lind the two extremes of condition in the elips. the one requiring the strongest scour. the other the mildest The Silesian wools are very easy in scour, and the old process of a soaking pan and flushing cistern is the best. The scour formerly used was simple and inexpensive-viz., 75 per cen: water, 25 per cent. urine or diluted ammonia, hented to a temperature of 120 or $130^{\circ} \mathrm{F}$. Wool soaked in this during ten or fifteen minutes, and then flushed once or wise in the cistern. Ieft the Silesian wool in better condition than the most elaborate process could accomplish

The low temperature obviates milling, the mild scour does no harm to the fibre, and the flushing leaves the wool clean, free, and open.

Prepared in this manner, these wools improve in every subsequent process of manufacture, and appearat the best in the findshed goods. They will spin to an enormous length, and when blended with 10 per cent. of combed silk, cut into short staple of $1 / 1 /$ to 2 in . in length, will make an extremely fine garn, suitable for the finest Indian gauze or cashmere shawls. Goods made in this manner gained the first prize medal at the first exhibition in 1851, and for the maker an appointment to Her Majesty, who did not disdain to Include them amongst her Royal wearing apparel Fortunately, samples of these exhibits aro still in existence, and might be seen. by artangement, at the offices of this journal.-Textile Manatfacturer.

## her majesty's laundry.

The Royal Laundry, or, as it is more generally known, the Queen's Laundry, is very pleasanily situated on the borders of Richmond park, nbout ten miles from London: in fact, the garden and ground on which it stands were a portion of the park itself. The keoper of this lodge has no sinecure, for there are few of the private establishments of royalty more difficult to obtain permisston to see uver than this, says a writer in the $L$ adi

From the entrance gate a drive, bordered on each side by lawns and fower beds, sweeps up to the residence of the superintendent. This gentleman, it need not be sald, is an expert at his business, and has had the extablishment in his charge fitted up with the latcst and most approved machinery and appliances. Every item of material used is thoroughily tested as to its qualifications, the sonp and soda analyzed. and every precaution taken that each is of the purest possible nature.

The laundry itself is a square, isy-covered building, with a wing projecting from one side. It has no pretensions to architectural beauty or appearance, but its interior has been designed for the special purpose for which it is fitted. In this the personal Hinen of Her Majesty is dealt with, and no stranger, under any circumstances, is permitted inside its walls On either side of a stone passage are large cupborards, which are thoroughly ventilated. and stored with the various kinds of soap used The carbonate of soda and ordurary Scotch warhing soda are kept in chesta in this same passage.

Tho sulded linon arrives from the Royal Palaces in great white square baskets. and is tahen in hand at nnce by the sorters. and compared whth the lists that aceumpany it The persnnal linen of members of the Royal family is sent and returned in wooden boxes with brass places, on whech are engraved the names of the owners and numbers, thus "The Queen, 5." or. "H R H the Princess of Wales. 3 These are taken to a soritig room kept specially for them. Two washug rooms used for the household and table linen lead from the general sorting room From the rinsing tub everythong gues immedatels theo the wringing machine which revolving at the tate of ;oo revolutions a minute. delivers the articles very nearly dry dcross the passuge is the mangle and press room where dails great piles of table cloths, 1 wels sheets ete are dealt with Ithe greater portion of the artucles are neati marked with red conton. "1.f.l., with the tutuals of the palace they beleng to under, thus -O. B1.," B. C.." or "B. P." Some, however, are marked with a stamp.

Towels form by far the largest number of items dealt with. and, when Her Majesty is at Windsor, several hundreds of dozens a woek go through this establishment, and all the household linen dealt with is from the Queen's establishment alone, for though all the personal lisen of the members of the Royal family is cleansed there, so as to secure the greatest amount of safety from any infec. tion. the househoid linen of tho different branches is sent priacipally so private firms. Drying and ironing rooms are on the first floor. That devoted to the former purpose is elaborately fitted with slides orer the furnace bat is principally inteaded for use in wet or wintry weather, as there is a spleadid drying ground attached, and adjoin-
ing this is a larse corrugated iron. shed, with open ends, and sides formed of revolving shutters, for use on showery days and damp nights. In the ironing department we find a rulo in work that seems strange, involving, as it does, much extra work and expense-cverything liere is thoroughly dried before it is ironed. Of course, the patent ironing machine saves a good deal of the extra labor, but the scores of flat-irons speak eloquently for themselves of their share of the work.

The royal table linen is of the finest substance, and is specially manufactured. The designs woven in are very handsome and elaborate, the Queen's monogram predominating, with roses, shamrocks and thistes among the armorial bearings. It is also made in sets, each tablecluth having a number of serviettes to match in design, etc.

One large room is devoted to calender work, and here all the enormous quantity of chintz covers for the palaces are dealt with. Adjoining this is the important room where everything is thoroughly aired before being returned. The department in which the personal linen is cleansed only communirer ess with the other buildings by a door, which is always kept locned, and the key is in the possession of the superintendent, and the most stringent rules are in force regarding visitors. even for members or servants of other departments of the royal households.

Even in royal establishments linen will wearout, and whatever may be done in the houses of the princesses. the Queen herself periodically superintends the throwing out of worn articles at her palaces. As she is seated in the linen room at Buckingham Palace. each thing is held up before her and condemned or passed, as the case may be. If the former, its destination is at once fixed-either a hospital or some other charitabie institution-and it is certain to reach that destination as soon after it is cleared from the books of the palace as possible.

## NEW VEILINGS.

In spite of the fact that an eminent oculist says that every dot in a woman's veil is worth a guinea to his profession. dots are more iasbionable than ever, says the Trextile Mercury. There are dots in every kind of veil-big dots, litule dots, dots close together, and dots far apart. The most popular and stylish veils have selfcolored dots, but these by no means occupy the field. Variety is the spice of merchandising as well $2 s$ of all other conditions, and fantastically colored and dotted veils are sought after by many women. Chenille dots have their votaries, as have those of metal and jet, the latter being made usually of a gelatine-like substance

The latest thung is the Brussels net with embroidered dots and a lace border, about an anch in widh, across the bottom The finest grades in these vells cannot be bought by the yard. but come in patterns, and, like all noveltues, they wome high Very desimble ones, though, are obtanable by the yard.

A desirable veiling for winter is of crope There are blues, browns, blacks, and whites The latter is by far the most becoming Indeed, no other veil is so highly effectave and becoming as this.

Grenadine veils are new and pretty, and wall urdoubtedly have 2 big run in the spring. The Tuxedo, so fashionable last season, is in evidence again. but with the addition of a multtude of dots. A new veil is dotted and bordered with several rows of velvet the same color as the dots. In fact. these border effects are a leiding idea for spriag American importers are showiag them largely among their samples for next season.

One very chir thing is the beauty-spot veil. The net is of white, while the dots of black chenille are as large as a good-sized pea, and quite far apart. This veil looks well when worn with either large or small dots, and is usually of double width, covering the entire face, and gathered full under the chin.

A fire broke out a short time ago in the premisesoccupied by the Toronto Eringe and Tassel Co., on Froat street, the damage done being about $\$ 7.000$; partly insured. The company's former premises were burned down only a few months 2go, and the world of puting in a new equipment of machinery had only jwat ieen complezed.

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## THE GERMAN LINEN INDUSTRY.

The growth and development of the German linen industry during recent jears is a matter to which perhaps insufficient attention has been paid in this country, and a general account of some of the leading features may prove interesting. The quality of many classes of German goods has long had a prominent name, but we have been accustomed to consider the manufacturers, as a whole, much behind us in their efforts to adapt themselves to modern requirements, and to adopt all the advantages which the powerloom offered. The advance made in this direction, however, during the past fifteen years-say, almost since the prosperity consequent on the recovery after the Franco-Prussian war-is too important to be ignored, and the position meantime has undergone a complete chauge. Spinning mills and power-loom factories have been erected in all directions with a degree of success which offers to be permanent. The newest systems and methods are readily adopted, and German goods are competing with Irish and Scotch in many markets where there was scarcely any competition to be feared in former times. This compettion is especially severe in regard to the United States trade. When one considers the immense German population in America, the position held by many of them, and the success they have attained as industrial, frugal, and law-abiding catizens, it is easy to tmagine the natural outlet for the real productions of "the Fatherland." and many firms have made a specialty of cultivating this trade with good result. It is a thing scarcely known either in Scotland or Ireland that one firm will undertake the sale of the whole export production of a factory from year to year. Agencies are abundant, but there are few, if any, works where one cannot go in and buy what is required either for home or foreign account. It is the case, nevertheless, that many continental manufacturers are so well employed that they will undertake no business outside of their fixed connection, and this seems to work very satisfactorily for both parties.

The natural tendency of the Germans in America to buy German goods does not account, hewever, for the whole success which
their manufacturers have achieved They have, on the one part, studied public taste to a great degree, and also the public have come to appreciate the excellence of their goods in quality and design In doing business, color design and general effectiveness play an important part, and it is here that our continental arrivals are most formidable. The excellence of their bleaching and dyeing is undoubted. The artistic nature of their designs and the high quality of their hand labor, which they have both cheap and abundant, are sources of atrength to thom in meoting the varivus watits of cus tomers, and cause our manufaturers the sonall truable a present times, when compettion is so keen.

Biefefeld has been called the Barnsley of Geimany The people pride themselves in mahing guods almost tou gool for general use, and two expensive for ang indy tu buy The fuatit, of oven their common articles is certanis relativel, betier than is ob tainable elsewhore. The price may be lugher, but the value is undoubtedly there. Times have changed consulerably, howeter. with the introduction of steam power, and there is a greater variety in the goods now being manufactured, and the general excellence is perhaps not so conspicuons as formerly. Gools of the highest quality and design are, of course, still being manufactured but the necessity for getting rid of a larger production has forced manufacturers into different channels, and has occasioned increased variations both in styles and qualitics. It is significant of the tendency of trade that even in this ancient home of the linen industry manufacturers have been forced to some extemt into union goods, and one finds not a few numbers half cotton and half linen. This, it is feared, will be an increasing feature in future-both on the score of cheapness and adaptability - to the detriment of the older and more durable, if less sighty, pure linen goods.

It is unnecessary here to give any outline of the older industry. its early establishment, the struggles with the counts and princes -some of whom fostered and others hindered the trade by heavy burdens-the entry of Bielefeld into the Hanseatic League just about the time of its collapse, etc.

The tinest description of linen geods manufactured in Bielefeld are still made on hand-looms wrought by men. and it would convey a wrong impression were we to omit some reference to this branch of the industry. In addition to the varivus manufacturers already mentioned, there are a great number of dealers and merchants, collectors of hand-loom goods only (or combining this with power. loom manufactures). who are doing a very extensive business, both for home and export. All round, the town is studded with little homesteads, which have accommodation for one, two, three or four damask or jacquard looms. The system of work varies with different firms. In a few cases the looms belong to the workers, who hire out their labor to certain merchants, who supply the yarns. Generally, however, the looms belong to the merchant or manufacturer, who supplies his own designs and yaras, and puts his own weavers in possession Good weaters are thus promoted to the charge of more than one loom, and where there are three or four looms there is a master weater or overseer. The yualities of these hand made damask goods are most excellent, and will match the best productions of bjelfast. Barnsley or Dunfermline. Special attention is paid to designs, and with a richness of art and feeling for aature which we are slow to follow, unless in the highest qualities Geometrical patterns are made in great variety and in good effect. A Corecian patiern is Grecian, and Moorish is Moorish. and where floral de signs are wanted, some consideration is had to a natural combiua. tion. One docs not find trees growing out of a solid square, or ferns spread over a chequer board like so many chess men The German manufacturers do not expect to gather "grapes of thorns or figs of thistles. "A style in much favorat present is the "Rococo" of the time of Louis XIV., and is very rich, elegant, and effective

For a long period Bielefeld has been famed for a particular class of work, viz.. " wappenticher," literally weapon cloths These are cluths spectally designed with the armorial bearings of the dif ferent counts, dukes, and kings of Gernany, and, when one considers the number of the petty courts and royalties to be supplied, it can be readily understuod that there is here a distincs field for industrial enterprise Whether they all pay cash or take long credit
wo did not leel th our duty to inquire. This branch is almost monopolized by two or three firms, however, who to all nppearance thrive on it.

The working hours in the factories aro 60 per week-a ten hours' day. They start at five oclock in the morning and work right on tillone, wilh a break of about 20 to 30 minutes for breakfast For dinner the time extends to about an hour and a half, as many of the workers have great distances to go to their homes Then work is resumed until six or seven oclock, with a similar break of 20 to 30 minutes during the afternoon The arrabgement varies at ditferent works, but the total working week is the same. Only in one factory is there a free Saturday afternoon Thefirm have made a spectal arrangement with their workers to curtail the long intervals, so as to allow them freedom on Saturdays for working on their vegetable gardens and bits of land. This arrangement is giving satusfaction, but has not jet been followed by other employers, although the workers conseder it a great boon even although still dong their go hours. With the hand looms it is dif. ferent Tho men are almost enturely on piecework, and it would be impossible to give any details of their hours. Some of the best weavers, however, are satd to make what, in Germany, are considered good wages, and from the appearance of their homes they seem to live in some degree of comlort. Ierhaps the rearing of pigs for the famous Westphahahams brangs in an additional pittance Into the wages at the factories we cannot entor fully rhe hours are longer than here, of course, and the wages seem as a whole lower From information gathered from different sources the average wage of a factory weaver is from 10 s . to sks . for the 60 hours, but there are good hands who earn the maxtmum, and indifferent ones who reaponty the minitnum.

## ThE AUSTRALIAN WOOL SEASON.

Fuhrmann \& Co., Latd., Mellourne and Sydncy, report to the Casadas: joursal. of jabrics as follows, under date 2ist December, 1894. The period elapsed since the date of our last summary (23rd November) has been one of great activity, and catalogues have been large and attractive. Competition has been wigorous throughout, but the course of the market must be described as somewhat irregular. 'Towards the end of November the cables from London announced a firmer tone, and during the first week of December our market showed a palpable improvement. A large show of lightcondhioned, well-grown and free greasy East Riverina wools clicited brisk bldding and owing to a keen competition from English and American quarters. coupled wath larger operations for Freach areaunt the choicest parcels readily fetchej an extra farthing. and prices for shafty light wools must now be quoter as reaching nearly the highest level of the seasen. Solt and fine greasy weft wools have been relatively searce, and whthout an actual riso being quotabio for these qualities, the prices paid showed great steadiness owing 102 lively competition by German representatives. Average greayy Beeces. as well as all sorts of greas) picces and bellies, have been more or less ruled in bugers favor. Lambs' wools, too have been somewhat easier. oxcept hight and free superior lots, which enjoyed a brisk demand for American and Scutch aucounts
Theto has bern a steadily fallins market fur cruss bred wools of almozt every descaption. At the begannig of Oatober good crossbreda sold at relatwely high prices as cumpared to merino wools. but a weakness som set in, when has since developed until some descriptions are now 2d. pertib. below the best rates of this scason and even at those low values inferior and faulty crossbreds are diff. cult of szie Scsures wools, of whech litle has been offered lately. has not excited much compettion, and prices havo been somewhat irsegular especially for daulty descriptions. Tte total business done so far in our threc colonal markets shuws the following results- -

|  | 1894 |  | 1523. |  | 1803 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | OExed. | Sold. | Ollered. | Sold. | Offered. | Sold |
| Nelbournebeclung. | 294 700 | $25^{\prime} .003$ | 291000 | \%69300 | 292.200 | 261.400 |
| Sydnoy.. | 335300 | 270700 | 337.:00 | $=65.700$ | :65,200 | 237,000 |
| Adelaido .. | 79.300 | 63,400 | 68.400 | 62,100 | 60,000 | 53,100 |

A number of clips hitherto shipped to London have been disposed of in the colonial markets, and fairly good catalogues are promised for the next month, which will virtually close the Melbourne season.

## NEW DYESTOFFS.

Wm. J. Matheson \& Co., Limited, of New York and Montreal, call our attontion to a sample card with dyeings, which they are distributing to the trade, illustrating another very valuable addition to their list of diamine colors, namely, Diamine Brown $B$. Patd. This, one of the latest additions to the list of diamine browns, is a direet dyeing dark brown dyestuff, and should fill a still onisting want, owing to its excellent fastness to hght and its great covering power. The shado of Dlamine Brown B., the yellow cast of which when looked at across the surface (overhead) makes it very valuable for the production of full and dark browns, is only obtanable thus far by combining cutch and logwood.

Diamine Brown 13. dissolves in hot water readily. When the solution is cold a portion of the color precipitates, but will dissolve on warming.

Colton is dyed at the boil with the addition of 5 per cent. soda and is per cent. Clauber's salt, or with Glauber's salt only. The color is equal in fastness to washing to all similar products. Its fastness to light is even superior to that of our Diamine Brown M., which excels in this respect. Hot ironing and calendering reddens the shade temporarily

Dyeings of Diamine Brown B. are not affected by diluted acids or alkalies. As Diamine Jrown B. Jyes very evenly, it is well adapted for shading purgoses and the production of light colors, and it can be easily discharged with zinc dust or actate of tin. It is not designed to be diazotised and developed.

By trating dyeings of Diamine Brown B. in a fresh bath at the boil for one quarter to half an hour with $2 / 2$ per cent. bluestone (sulphate of copper) and $2 \% / 2$ per cent. bichromate of potash, the shade is somewhat brightened and the fastness to washing is greatl; increased. The color is not well adapted for wool and other animal fibres, and is not therefore well adapted for mixed goods.

## CANADIAN FAILDRES IN 1894.

Bradstreet's report of the failure statistics for the Dominion of Canada and Newfoundland during the past year is as follows: Ontario. 791 : Quebec, 706; New Brunswick, 90 ; Nova Scotia, 111 ; Prince Edward Island, 7: Mantoba, 68, Northwest Territory, 12 : British Columbia, 63. Total, 185t Newfoundland, 22

R G. Dun \& Co 's repart is as follows
Ontario.-Manufacturing. 243 failures, with assets $81,874,240$, and liabilities of $\$ 2,4^{2}, 460$. Prading, 577 failures, with assets of $\$ 3.205,942$, and liabilities of $\$ 3,763,073$. Other commercial, 6 failures ; assets. $\$ 79.95 z$, and liabilities $\$ \mathbf{5} 06.900$, making the total of commercial fallures 826 , assets, $\$ 5,159,7,0$, and liabilities, $\$ 0,288,4+2$.

Qusbec. - Manufacturing, 175 failures: assets, $\$ 2,858.688$ : Jiabilities, $\$ 2.490,559$. Treding. 479 lailures: assers, $\$ 3.643,611$ : liabilities, $\$ 5.003 .690$. Other commercial. to failures: assets. $\$ 44.35$ : liabilites, $\$ 777,172$, makiag the total commercial failures 664: assets, $\$ 55 \mathbf{5}^{6,657 \text {, and liabilities, } \$ 7,078,421}$

Eriftsh Colusibia. - Manufacturing. 17 failures: assets. $\$ 176, \$ 73$ : liabilties, $\$ 120,656$. Trading, 62 failures: assets, $\$ 870.0$ 200 ; liabilucs. $\$ 795 \cdot 450$. Total commercial failures, 78 : assets \$1,047,073. liablitics, \$925,106.

Nova Scorin-Manufacturing, ${ }^{21}$ failures assets, $\$ 78.500$ : liabilities, \$122,600. Tradiug, 95 failures: assets, $\$ 313.627$ : lia. bllities, $\$ 773,4$ So. Other commercial, I failure assets, $\$ 2,000$ : liabilities, $\$ 3.500$. Total commercial \{ailures, 127 assets, $\$ 393,127$ : tiabilities, $\$ 500,580$.

Manistoba-Manufacturing, 22 Iailures; assets, $\$ 156.754$ : lia-
 \$44 S,1:5. Total commercial failures, 82 : assets, $\$ 637,060$ : liaLilities, $\$ 604,9 \mathrm{~S}_{4}$.

New Brusswick-Manufacturing, 15 fallures; assets, \$231,-

230: llabilities, $\$ 568,425$. Trading, 6 f failuces; assets, $\$ 452,094$. liabilities, $\$ 883.287$. Total commercial fallures, 80 : assets, $\$ 68_{.4}$, 224 : liabllities, \$1,451,712.

Prencr Edward Island-Manufacturing, 1 failure; assets, $\$ 1.020$ : liabilities, $\$ 2,807$. Trading, 6 failures; assets, $\$ 38,196$. liabilities, $\$ 60,206$. Total commercial failures, 7: assets, $\$ 39.816$ : liabilities, \$63.0r3.

Nawfoundlann-Trading, 2 fallures with assets $\$ 2,323$, and liabilities, \$8,957.

The total failures for Canada and Newfoundland, then, are given as follows: Manufacturing, 404 failures: assets, $\$ 4.377 .905$. liablhties, $\$ 5,898,385$. Trading, $1,3+5$ failures , assets, $\$ 9,007$, (9), habiltics, $\$ 11,436,258$. Other commercial, 17 failures, assets. $\$ 124.952$, liabilues, $\$ 282,572$, making the total commercial failures 1,850. assets, $\$ 13$ 510,056. liabiltties, $\$ 17,616,2 \times 5$.

## BRUSSELS IN CANADA.

Cianada will have a body brussels factory, and that soon John C. Duckworth, the New England inventor, dead ere his prime, will have the honor of weaving the first brussels ever made in the Dominion of Canada. That is to say, the weavers giving Canada her first brussels will produce them on the Duckworth loom The posthumous fame is Duckworth's. It comes about this way: Well-informed carpet men are aware that young John C Duckworth, whom the tate E. S. Higgins brought into prominence, invented and perfected a remarkable loom, each, for ingrain and urussels carpet. For ingrains no more effective shading loom was ever constructed. What its defects were we are not prepared to say. The number made was limited, but Mr. Higgins always contended that its execution was wonderful Montague a White used a few of them in Philadelphia; but either from their intricacy, or cost, or something else, the Duckworth loom never came into general use outside the Higgins Mill, in New York city What we have said of Duckworth's ingrain loom applies equally to his loom for body brussels. The latter was a marvellous machine, and the few used by Messrs. Higgins $\hat{\alpha}$ Co. yielded a beautiful fabric. Within a month ten of the Duckworth brussels looms have been shipped from the Higgins mill in New York to Canada. They are in prime condition, and Wm. Talbot, who bought and shipped them to Canada, asserts that they will produce cither common or fine body brussels in a manner to rejoice the Canadians. These looms ought to go into Canada free. As it is, they must pay 30 per cent. duty. However, they are going in there, notwithstanding the duty. We salute Canada! May she become the " seat." and the front seat at that, of a great brussels industryl Coubtless the town which comes down with the dust will get the industry. E B Bigelow, of New England, gave old England her first power brus. sels loom. John C. Duckworth, of New England, has given Camada bers.-Am Carpet and Upholstery Trade.

## LITERARY NOTES.

Mirs. Traill's " Notes of an Old Naturalist " are the compla. tion of notes marie during vartous periods of her long life spent in the Old Country and the New. We catch ghmpses of the Old World tife in earl; childhood in her first home, Stowe House. on the banks of the Waveny River, and near the old historic town of Bungay, Suffolk, of gleanings in the old garden and amoong the flowery lanes and whods near herlater English home, Reydon Hall, but, more interesting to us, among the woods and fields of ter adopted and much beloved country, Canada, where first she learned to study the wild flowers, the birds and wild animals, the forest ferns and mosses and grasses, now largely swept away before the march of civilization. These things she has chronicled, eve: pointing to them as the works of an ininitely wise and great Craator. Staff in hand, we find her on the rocky slands of Stony Lake, seeking for new treasures of flower or grass, ferns or mosses; or quictly in her arm charr, pen or book in hand, as we see her in the portrait forming the frontispiece to the fortheoming volume, taken when in Uttawa in her 8 3rd year-now ten years ago-while supenntending her book, "Studies of Plant Life in Canada." In such sketches as
"The First Death in the Clearing" and "Alone in the Forest," Mrs. Traill, in language full of pattios and beauty, gives the reader a vivid insight into the sorrows, the privations and the perils endured by the early settlers. Most interesting to the present genera. tion are these chapters writed by our author sixty yars ngo in the midst of the then almost unbroken forest that surrounded her now Canadian home. The new book is handsomely printed by Win. Briggs, Toronto, and not the least entertaining feature of it is an introductory biographical sketch by Miss Mary Agnes Fitzgibbon, author of "A Tripio Mantoba" and "A Veteran of 88 ra ," wa: mily commended in this journal some montis ago

The leadlag feature of The Century enntinues to be the "Life of Napoleon," by Prof. William MI. Sleanc, which, in the February number, zeaches the topic of Bonaparte's first mili'ary success. After describing the rather shifty policy of Napoleon ' $n$ relation to the Revolution, Prof. Sloane recounts the circumstavces surroundirg the famous pamphlet. "The Supper of Beancaire," and then takes up Napoleon's decisive success at Toulon, and his appointment as a Jacohin General, thus covering, in all, the larger part of the period from the tume of the expulsion of the Bunapartes from Corsica to the marriage with Josephne, which will be reached in the March instalment. The illustrations of the present number are from originals hy David. Flameng, Lejeune, Jimencz, and other panters, together with drawings made especially by Castaigne, Pape, and others, after careful studes of the period. The narrative now rapidly approaches the first great campaign in Italy, which was regarded in later hife by Napoleon as the greatest achievement of his carecr. Two artucles of special novelty are: Mr. Victor Lous Miason sauthortatuse account of the new national armament, with many illustrations, ..ere published for the first time, and an account by Mr. R Dorsey Mohun, U.S. Agent in the Congo Frec State, of "The Death of Emin Pasha," including statements to the writer by men who partacipated in the murder of Emin. This account, told with much partucularity, is a valuable addition to the history of African exploration.

Tue absorption of the Emfire by the Mail, now known as the Daily Mail aud Empirc, ought to be on the whole a gain to Toronto journalism. It was felt that there was one morning paper 100 many for the financial safety of the fraternity; and white the present combination ought to ersure solidity to the new concern, it is belicved that the Mail's support of the Government will not be of that hide-bound sort which as often weakens as strengthens a government in the eyes of a community.

Tur manufacture of machine-made embrotderies in Eastern Swizesland is rapidly increasing, and now the value of the annual production is about $\$ 20,000,000$. About 24,000 hand embruidery machines are at present it use, the industry being carried on chiefly in the district of St. Gall. Steam machinery has been recently introduced, but it remains to be seen whether it will entirely replace the old-fashioned hand machines. A crisis in the trade was reacned in 8872 , owing to the comp:tition of the lace workers of Nottingham and to the introduction into Germany of the one-needle chain-stitch machines, which brought about the production of an inferior product at greatly reduced cost The embruitery industry of St. Gall after that became diverted gradu ally from large factories into the houses of operatives, where one or perhaps more machines were run for very long hours The trade then fell into the hands of merchants, who furnished patterns and disposed of the goods turned out by the embroiderers at their homes. Since that time there have been two or three periods of serious depression owing to over-production. and in 1852 the "shuttle machine" was introduced, and this competed seri pusly with the older machines. A brighter feature of the industry has been the enormous increase in the number of lace handkerchiefs exported to America, as many as 700,000 dozen having been sold in a single year. In the meanwhile the prospects for prosperity in the future seem fairly good, the Swiss embroiderers being con stankly on the watch for possible new designs and styles, and tbus putting on the market a continued stream of pretty novelties

# Foleign Textile Sentres 

Maxchester. - The activity in the cotton market has continued and even increased Spinners havo been willing buyers. and brokers have let the raw maternal go without any material clange in price Quotations for "spot' conunue, as for many weeks past. In the immediate neighborhood of ad par ib at present there is a lull in the prophetic department, and the estimate of upwards of ten million bales is generally aceepted It may be well to note that the bales are heavier this year than usual by nearly 10 lbs a bale, a fact which should be taken into constderation in crop ealculaticns. Both yarn and choth have to some extent shared the increased business of the last week or two. Yarns for home con sumption have been more freelf purchased, and export bundles have also been in fair demand in cloth the orders have been very unçually distributed Good China shurting makers are well in order Favorite makes are engaged up to end of April. India, however, conanues very gutct, and the compact to refrain from purchasing lught goods in Calcutia is being well hept this agree. ment dees sot expire for anether month Meantime doms usually employal on these goods are inlic. India shirtings are also in very slow demand. Mexicans have been extensisely sold The smaller markets call tor no special remark. The home trade has scarcely commenced purchasing yet. In the waterproof trade more business has of late been done on colonial account. especially with Australin Dark woolen prints have been in fair demand, but the sale of primed Melton overcoats has been unsatisfactory Covert tweeds and worsteds have been eut up freely for some special make of overconts. The silk manufacturers of this district have been busier lately with tie silks, and they appear to be gradually regain. fing this trate, which was almost entirely taken from them some time ago by Swiss and German competitors, with their cheap makes with cotton backs, and the silk thrown upon the surface
bradyonv - The prices of both molair and alpaca keep firm, and there seems to be some hope of a revwal in the local mohair industry thruggt the growing use of braid for the ornamentation of ladies dresses E:laborately braided and enibroidered gowns are one of the great features in the dress of to day in kashionable clrcles. As both coarse and fine braids will be required when this fashon extends to tho million," it is difficult to appreciate how guickly it miay affect the mohair industry, which is practically confined to the Bradford district If, in addition to this, the taste for molanir and other lustrons dress fabrics, which is already evident in the United States, ahould extend to the continental and home markets, 13radford will soon be itself again With the exception of tho mohar branch above referred to, the general worsted yarn trade, both for the continental and home markets, is quict. There has, howeter, since the commencement of the year been a good deal of smmpling going on in yarns suitable for dress goods of the serge order in preparation for the coming winter season There is a rather brighter feeling preariling in the piece trade, and some of the home trade houses report the jear as starting very well indeed. the most duccessful lines so far being quiez Bradford-made fancies. Wetter business is niso being done in dress goods for Australia, which is reported to be slowly but surely recoverng from the recent collapse The purchasing power of Australia and the Cape must, however, be seriously crippled as long as the presemabnormally low prices of wool and corn contanue to rule should quen a ten pe: cent. riso take place in the price of these commodities business would at once le greally increased.

Dewsurky. - In the heavy wooten districts of Dewsbury and Batley business is improwing, and makers of low aweeds and printed foods are in some instances fully engaged for months to come 1 find that the posstbilty of the United States taking good quantities of the better class fancy mante cloths made in this district is being already borne out Two firms hiave alrealy reccived some good orders of these goods for that marhet. The extremely wintry weather of the lasi fortnight has improved the demand for better class blankets and rugs, as the stocks of both merchants and drapers are down to a very low point

Leevs - Business in this district has not altered much, with a cheerful outlook for the new year. The better class of worsteds in both plain and fancy styles have met with increased favor, the de mand for the United States having mproved considerably lately, and a good business with that country is being looked for during 1895. In serges a large quanatity of goods of various qualities are being sold, this make of cloth having been in weh favor both for home consumption and export. In worsteds, serges, and woolen fabrics generally, sutable for the ready made trade, a fair business has been done. still, makers of these could turn out more goods if the demand warranted this, but the general slackness in other branches of industry has caused money in the hands of the working classes to be rather scarec. so that this branch in Leeds has been much affected during the past twelve months In the finer and medhum quahues of cheviots and tweeds a moderate business has been done, and consulerably larger than was the case in December of 1893 . In mantle and dress goods, business keeps up fairly well. As regards prices, there is no chango to note in any branch.

Baksslby.-Business on the whole has been fair, with a pros. pect of a cheerful character for the present year. Stock-taking has been the rule, and consequently orders have been fewer in table damasks there is hate new to note, and the same may be said of the demand for carpet, starr, and other coverings, as far as the home trade is concerned, but for export to the U'nited States some fairly good orders have been booked, in fact, the demand for that country has improved considerably lately for nearly all classes of good3. In drills, busmess has kept up well, the chief demand having been for the various States in South America, whilst the call for other makes of fabrics for these countries is on the increase, and is expected to reach a considerable bulk early in $\mathbf{1 8 9 5}$, as inquiries have come in freely In domestic goods, there has been a quet feelang, but it is not thought that there will be any falling of in demand for some months to come, and matufacturers are in hopes of a better trade in the near future Hand-made goods are rather neglected, and it seems as if this branch would gradually be extinguished Prices, although low, are moderately satisfactory.

Lukgas. - There is, though slow, a steadily increasing demand for all classes of linen cambric goods, both in woven bordered cambnc handkerchiefs and in plain linen cambric for hemstitched handkerchiefs. the latter, in fine setts, are a good deal short of the present demand, and they will undoubtedly be scarce and dearer should dermand improve as it has been doing, and looks at this tume of writing. The demand for hand-loom linen handkerchiefs in coarse and medium setts is moderately good The output from hand-looms at present is pretty fair, and before the Christmas holdays was very large Power-loom manufacturers keep fuily employed, and expect a good time shortly at advanced prices. Machine hemstitchers have been exceptionally busy, and have been working a good deal of overtime to keep pace with the orders. There is also a good deal being done in the apron and blouse fac. torms. Linen embroidered goods, pillow shams, sheets, centrepreces, etc., are in demand; hand-loom damasks, napkins, diapers. etc., are moderately active.

Lonnonderrs;-The state of the shint trave here is shortly and easily described by the word satisfactory Orders are coming to hand earlier .- : was expected, and inere is some ansiety on the part of buyers for prompt dehvery,-Irish Textile Fournal

Belpast -The linen trade cannot as yet be said to show any very decided symptom of impravement. Linen yarns, indeed, have been in much better request, and some rather extensive selling has taken place within the last few days, but prices are little better. In that respect all that can be said is that the downward tendency of prices seems to have been very effectually checked. There are some who predict a substantial advance in yarn prices at no very distant date. but it has not begun yet. Prices of tow yarns are very firm and sales are easily cffected at fuil current quotations. Forcign flax is the turn dearer, but prices of Irash flax remain unchauged. There is a fair prospect of steady and satisfactory trade in the leading branches of the woolen manufacturing industry in Ireland. Notwithstanding the dulness in the trade of the wholesale warehouses, both here and in the principal trade centres
across the Channet: during the whole month of December and part of November, causing an almost entire cessation of repeat orders for winter woolens, it is questionable whether the opening month of any recent year has found the lrish manufacturers occupying so strong a position as they do at present. The spring sales bave been of an unusually extensive description, and the leading manufacturers have still orders before them that will keop them fully employed for a considerablo timo to como Indecd, so fully engaged have they been, as a rule, up to the present, that in several quarters a good deal of complaining is heard as to delay in compieting the first spring deliverics.

Glasgow. -The South Scotland tweed trade is not showing much amprovement, many of the factorics being on short time. So far, confirmation orders have not been coming in briskly $A$ few makers have booked some repeat orders, but generally speaking manufacturers are not busy. Wool and yarn are still very low in price, and it is a trifle surprising that the demand for cloth is so unsatisfactory.

Calals.-English embroidery, in all.cotton and all-silk makes. has been well inquired for, particularly in butter colors, although the shades sought are darker. Bourdons of inferior quality are in hmited request, and seareely sell at all. For medium and better grades the demand is better. Chantilly fe: millinery and dress purposes only bas a small sale. It is thought. however that this staple article will not remain neglected for long. says the Dry Gomis Eionomist.

Milasi--The raw silk market is not active, but prices are firm holders showing litte disposition to accept low offers. In greges, as well as in thrown silks, buyers' offers at prices indicating anything like a concession have met with a refusal, holders being more willing to raise than to lower their demands. Cocouns are firmly held, all lots offered at 9 1-10 to 9 1-5 lire finding ready takers

Lyons - Business is beginning to increase and an improved demand is already felt. Manufacturers were, however, still well able to keep their looms at work on previous orders not to have felt the interruption caused by the holidays, as far as the looms are con. cerned. A good demand is reported for taffetas and! failles for skirts and linings. Changeable tafteta is also liked for lininge. In dress silks supplementary orders have been received for crystals and ben galines, printed silk and striped and checked taffetas. In light fancies, plain, gauff: $\delta$ and printed goods find good sale for ready delivery, and have also been ordered in advance. Colored embroideries on taffeta ground are in demand at good prices. Some attention is given to surah and merveilleux. A fair business is also being done in piece-dyed goods; in cotton-back satins, however, there is room for improvement Black damasks have sold in good quantities. Colored damasks are being ordered for future delivery. Lancé effects on satin find buyers, as do also printed taffetas. Crepos are in good demand for ready and for future delivery. The looms are nearly all employed, empty looms being searce. Prices of goods are firm, this circumstance and the higher weaving wages con tributing to make them stronger. The velvet market is quiet, but production on the looms has not decreased, manufacturers working to refill their reluced stock. Ribbons are quict, but firm. While there is little new business, many looms are working on previous orders. Checked taffeta ribbons are considered good. Velvet ribbons are quiet.

Crepren. - The demand for dress and millinery silks is slow at present, and the orders which manufacturers secured in the last two months of last year are coming near to completion without the re-issorting demand having yet started to fill in on the looms the place which the completion of the earlier orders will necessarily leave empty Dyers are already beginning to feel that new orders are not plentiful and less activity prevails in the dyehouses. The quietness is more marked as far as staple goods are concerned, but fancies are no exception, and for these also production will have to slacken if new orders do not come in soon Velvers and plushes continue slow, waiting the opening of the order season for fall. Black velvets in better qualities are doing fairly, but with the exception of these pile fabrics generally are slow. Manufac.
turers of velvet did not have a good year in 289, and expect to do relatively much better in 5895 . In order to keep their looms going some manufacturers are working on cotton velvet. More recently some have gone into the manufacture of cotton plushes, an article that is, however, not likely to meet with very high favor, athough it has a very good appearance.

Zuricil-The prospects for this season are very bright. Changeable, striped, and fancy taffetas are in the frome. Cheap qualities of surah in colors and some cb engeable combinations find buyers. Small effects on black grounds and on colored glacs grounds are liked. Satin duchesso in black and colors and faillo Francaise are in demand. This promises to be the best season for novelties seen for many years, and all in favor of the specialtics made by the Zurich industry. Tho United States have ordered heavily for spring, ard there seems to be a return of the good old times when the industry here could not produce enough for the Now York market. But the industry has improved in so far that while formerly the bus'ness was almost entirely in the cheaper goods, a successfal competition can now also bo made in better grade goods.

Plaubn.-The local mills have been very busy lately, a number of American orders hawing been in course of execution $A$ good deal of busmess has been placed by buyers for millinery houses, chiefly for Bochspachtel and collars There has been no inquiry for guipures. Embrodered tulle entredeux in 20,25, ,0, 40, and 50 centmetres seems to be the article on which hopes for the coming season are principally based. A number of designs have already gone out, and are found very delicate and pretty,-Textile Mercur).

Kidderminstre. - The very serious state of the trade at Kidderminster, says the Shuthe, demands the mos: thoughtfulattention of every one concerned. This is no time for recrimination between Labor and Capital, but rather for mutual sympathy and friendly cooperation. Every one, then, will be glad to read that the Weavers' issociation are taking steps to see what can be done to retain some share of the tapestry trade, which has almost left this borough. No intelligent on-looker will blame the weaver for keep ing un the price of weaving, and for resisting attempts to lower it Even if the tapestry trade went to the North in consequence, it mattered but little so long as the weaving population remained fully employed at higher rates in making Brusels and Wilton carpets. But when matters come to such a pass that manufactur. ers all sound are losing thousands a year, and men are walking tho streets as firm after firm come to ruin, it is quite another thing. If weavers are out of work in Kidderminster, while those in the North are fully employed, somethag must be done to get a share of that employment. It is absurd to starve through sticking out for prices which it is now sure cannot be paid by the local mannfacturers as long as their competitors in the North are getting the work done for less. Better by far accept the terms on whilh the tapestry weavers of the North are working. But now that the attention of the Weavers' Association is directed to this most real and urgent question, one feels sure that common sense and the logic of facts will prevail.

Joseph Rogers' fur store in Winnipeg was last anonth badly damaged by fire. Loss, $\$ 20,000$. Insured for $\$ \mathbf{r}, 000$.
E. E. W. McGafry's dry goods and tailoring establishment at Lindsay. Ont., was almost totally destroyed by fire a few days ago. Loss on stock between $\$ 30,000$ and $\$ 33.000$, fully insured.

A writer in Renumm's Faceber $Z$ citurg says that the quality of starch for use in the textite industry may be said to depend upon its capacity to form a paste. and then comes its purity of color and its freedom from small nodules. It must make a thoroughly homogeneous paste-that is, swell in boiling water into a thick, gelatinous mass. At first the paste is perfectly homogeneous, but afterwards it sinks and combines, begins to form lumps, and water collects on the top. The value of the starch for forming a good paste increases with the quantuty of water it is able to absorb and with the length of time that transpires before it forms into lumps.


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Hackle, Gill, Comb and Card Pins, Picker Teeth, Needle Pointed Card Clothing in Wood and Leather for

Flax, Jute, Tow, etc.
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THE YARMOUTE BNERE ETO. CO. yARNOUTH. N.S.


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 POCKETSto hold Pencils, Pens, \&c., in the vest pocket. in Plain Leather, Calf, Russia and Morocco Leather. Light \& Pliable Prices-10, 15, 20 cts. each.
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## PIANOS...

parlor orgisns
CHURCH and CHAPEL ORGANS

## Among the Mills

Yort Dover, Ont., knuting mills are working overtime
Palmerston, Ont., woolen mills are nuw in operation again
The Brode Mills at Hespeler are rushed with orders and are working overtime.

Addison Moyer has secured a positton as weaver in the Water. 100, Ont., woolen mill.

A new system of steam heating is being put in at the Colling wood, Ont., hosiery mills.

Merritton, Ont., cotion mill was shut for a short time recently. but is now running as usual.

Thorold. Ont., knitting mill, shut down a few days last month. owing to the explosion of a steam pipe.

The cotton mills at Hochelaga and Ste. Anne's are working full time with their average number of hands employed.

The Grand River Ming. Company's flax mills at Elora have been consumed by fire. Loss $\$ 4.000$; insured for $\$ 2.500$.

A scheme is on foot, headed by a Philadelphia capitalist, to start a Brussels carpet factory at 1 Brantford. Ont , to employ about 50 hands.

Jonathan Schofield. manufacturer of undershirts. Oshawa, has added a fine new double machine for fancy top shirts. It cost nearly \$1,000.

Robert S. Fraser reports that orders are coming in very sireely from the woolen millsfor the garnetted stock made at his new factory in Montreal.
H. W. and A. Lusby's morocco leather and wool factory at Amberst, N.S., has been destroyed by fire. Loss about $\$ 3.000$. insurance. $\$ 1,4 \infty$

Jas. Brown, manager of the Kingsville, Ont., woolen mills, was lately on a vist to Detroit, contracting to sell blankets in the American market.

The woolen mills of Grindrad \& Co., Sherbrooke. Que., were closed down last month. Air. Grindrad, jun., has been admilted a member of the firm.

Mr Cole, of Doon, is thunking of establishing a shoddy mill in Guelph, if he can obtain inducements to do so. The factory would be run by electric power.

Brown \& Co. are contemplating removing their woolen mill from Kingsville, Ont to Leamington. They would bring about twenty-five families with them.
reaneth Zessey an employe in the Merritton, Ont. cotton mill, was engaged one day last month in leeping the racervay clear of ice, when he fell in and was drowned.

The Dominion Suspender Co of Niagara Falls, have received from their agent in Australia orders for over a carlozd of suspenders, in competition with English brace-makers.

Wilfrid Brosscau, who recently bought the hosiery factory of Montgomery \& McGinnis, at St. John's, Que., has now $4^{0}$ girls workiag on hosiery: The factory is under the superintendence of P. McGinnis.

The Toromo Web Co., manufacturers of elastic and non-clastic web, ribbons, etc., have just put in a new loom for the manufacture of silk belting. They have recently commenced the manufacture of neckties.

The Leamington, Ont., council has offered Brown \& Wigle. woolen manufacturers of Kingsville, exemption from taxation, free water, and natural gas at 5 ceats per thousand. if they will remove to the former place

The Oxford. N.S., Mfg. Co hase added to their plant a fancy Knowiles.loom. Other new machinery is now being put in, ineluding a fan designed to force the rool from the mixing room on the ground floor to tho fourth foor of tho main mill, through $2 n 11$-inch galvanized iroa pipe.

The Eureka, N.S., Woolen Mfg. Co. have elected the following officers: President, M. H. Fitzpatrick ; vice-president, W. D) Cameron: manager, C. A. Clarke : and secretary. J. D. McLennan.

The Garden City Carpet Manufacturing Co., St. Catharines, is being ancorporated, capital stock, $\$ 10.000$. They have bought out Gates $\dot{\&}$ Gardner s plant and stuck of carpets. and are now running 27 looms. A new dycing houso is being built

John Slingsby, superintendent of the Slingsby Mig Cn's mill at Brantford, Ont., has restgned has position, as he intends shortly starting a factory of his own. On the gth inst. the mill hands presented him with an address and a gold watel and chain
W. Maguire, Ottawa, has severed his connection with R. H Gray \& Co., overall manufacturers of Toronto, who were burned out and suspended business, and is now travelling over his old territory for the Montreal Shirt and Overall Company of Montreal.

The Joursial had a call this month from Alfred Parker, wool stock manufacturer, of New Toronto Mr Parker, who has just recovered from his fifth attick of the grip. reports a large demand for the products of his factory, and says there is a better feeling among the manufacturers.

Thompson a Co., manufacturers of bobbins and spools. Sherbrooke, e., send us one of the handsomest calendars of the year. showing a well executed picture of "The Slave." accompanicd by a piece of music under the same title. This firm report a good steady trade during the past year.

A young man named A. Craig was talking to an employe in the woolen mills at Hespeler the other day, when his coat got caught in a $\operatorname{cog}$ wheel. A weaver, with great presence of mind, threw off the belt and prevented him from being dragged into the machincry although the coat was badly torn.

Henry Edmunds, carrying on business in Salford and London. England, under the title of Walter T. Glover \& Co. manufacturers of rope and twine machinery electrical wire dic. has taken into partnership Godfrey Blundell Samuelson. son of Sir B Samuelson. Bart., M.P. The style of the firm will remain as before.

Charles Fraser, designer, of the Globe Woolen Mills. Montreal. is going tutake a stmilar prsition at the Auburn wooten Mills. Peterboro. Mr. Fraser's place at the Globe Mills has not been setted on at date of writing Mr johnson. the predecessor of Mr Fraser at the Auburn Mill, has gone to the Hawthorne Wooten Mill. Carleton Place.

The Standard Shirt Co (Lidd), Montreal. capital stock $\$ 200,000$, are applying for incorporation, for the purpose of manufacturing and dealing in shirts. collars, haberdashery supplies, and men's, women's ard children's clothing of all descriptions. The applicants for incorporation are Vm . Yule. J. R Gordon. S. Bell. A. MeIntyre and C. B. Gordon, all of Montreal.

The woolen mills of Adam Lomas \& Son, Sherbrooke, are running full time on orders, and have prospects of a good year before them. The tweeds and dress goods made under the well-known trade mark of this mill. as shown elsewhere in this issuc, are deservedly popular in the trade. Jas. a Cantie \& Co., Montreal and Toronto, are the selling agents of this company.

The third annual drive of the overseers and second hands of the Dominion Cotton Mills Co at Magon. Que., was held on the 12th ult., the merry-makers driving out to Georgeville. Here they enjoyed a thoroughly good dinner at the Hotel Eicphantis, W. T Whitehead doing the honors as president. The party returned to Magog late in the evening, all woting the outing a thorough success.

Last month a concers and dance wero held in the Montreal Cotton Company's Club House at Valleyfield, the oceasion being the presentation of the Canadian Football Association League trophy and gold medals to the players who won the championship last season. The chatr was occupied by I Simpson, manager of the cotton mill. Several goxd songs were rendered during the cuening, and the presentation wias followed by a dacee, which was kept up tillimidaight.



We mamafncture Ibarkorio I'nient Nobarlese Yant-runndug 1boming Coint

## Barker's Patent Double Apron Rubbing. Motions for Condenser Cards

Are in successful operation on all grates of stock, being gencrally calopted becausc they change carding and spinning rooms for the better.

## James Barker, cotton and Woolen Machinery

Second aml Somerset Strcets, Philadelphiá, Pa.

Manufacturers will note the card of the New lork ard lloston byewoml Co. manufacturers of dyewood cexracts, and agents in the I'nitel Siates and Canada for Actien Gosellschaft liur Anitin. Fabrikation, Berlm, leermany, manufacturers of amber colors $A$ W. D.eitch. llamition. Ont . who has for a number of years represented the dew fork and lloston Dyewoot Co . carries a large and well-zsworted swack of these anilines, and other dje stufts, which will be found a great convenience to his many customers. Mir leitch is widely and favorably known throughout the textile trades of Canada. and reports a goond heaithy demand for his special lines uf dyestutis and chemicals.

The Paton Manufacturing Co of Sherbrooic, are very busy just now ant repurt trate improving Thetr trade in their special lines of worsent fingering yams has been very satisfactory during the past year. and they are now preparing some fino lines of samples at litese yarns for the coming seisen james IJciklejohn. from the Eelebrated illiss malls at Chipping-Norton. England. has been appointed superintendent of the woolen department of the faton mills and has entered on his duties Richard Martin. formerly taks spianer in the worstat branch. has been promoted to the supenimendency of the wirsied and fancy tweed degartment of these mulls

The directurs of the Montreal Comon Co. beld their annual meeting on the sath inst at the office of the company's sellits: acenis. Steveason. Blackader it Co., Montreal. Iast year's boand nas re eleitel as follons I'rextícot a $F$ Gaule vice-president. Chat. liarth Invard of directurs. Ilon j, k Wand. E. $k$ Greea. $k$ I. liauls, jaipues lirenier and $s$ if liwing The annual
 priviling fur the wismal dividends of eight per cent. more than \$is.-
$\infty 0$ is carried forward to the profit and loss account. The gross grofits on the fear's operations were more than $\$ 197.000$, and the reserve fund or surplus now amounts to more than $\$ \$ 00,000$

Alizarine black dyes, to which lickhardt \& Kuttroff, of New York, call attention, would seem, judging from the number of indorsements they have received irom European government officials. to bethe very thing the trade has been looking for. A really fast black is a jewel of the first water, and if, as the tests made in Europe seem to affirm, the alizarines possess this most desirable quality, there is no other country where they will be more quickly appreciated and taken upthan in America. The chief advantages claimed for these dyes are absolute fastness, even when the cloth has to undergo considerable abrasion, andi cheapness oi cost. As the result of tests lasting over iwo years, several governments. railroads. police departments, etc., in Europe, have decided to adopt them. which proves that the claims of the makers rest.on a solid foundation -Sartorial Art Fournal.

The anaual mecting of the shareholders of the Merchants' Manufactoring Co, cotton manufacturers, of St. Henri, Que., was held at the office of the selling agents, Alex. Ewan \& Co., Mrontreal. The statement submitted was satisfactory. Siace last year the company have completed a large extension to their main mill baild. ing, and are putting in machinery for the manufacture of bleached sheetings and windowe shade gosds up to 105 iaches in width. This is the first machinery introduced into Canada specially adapted for this purpose. The company tre running their works fall time, and are employing nearly $\quad, 00$ hands. The fullowing are the officers: A. A. Aycr, president : Gilman Cheney. vice-president : R. B. Angus, J. P. Cleghorn, James Crathern. Jonathan IIodgson and jobert Machay, directors: and William G, Cheney, secretary.
treasurer. Harold Lavion, who has for the past five years been superintendent of the works, and has given the utmost satisfaction, is sevaring his connection with the company in March, and is to be succeeded by dlfred Hawksworth, of Pontiac, R.I.

Tue Hyams Bros, brokers, whose arrest on a charge of murder has been the sensation of she month in Toronto and Montreal, ran a glove factory some years ano in lingston.

Erbatus.-In the paragraph in last issue, relating to the late fire in Toronto, the loss of Geo. D Ross \& Co. should have been sinted as $\$ 5,000$, not $\$ 50.030$ The insurance was $\$ 1.500$.

Albert J Hendry, of G. E Armstrong's dry goods store. perth, is city traveller at Ottawa for James IV. Woxd, wholesale dry goods merchant of Montreal, who has recently opened a branch at the capital.
E. B. Greenshierns. of the wholesala dry goods house of S. Greenshields, Son $\&$ Co , Montreal, is now travelling in the south of Europe with his wife and mother. Mir. Greenshields does not expect to return till spring

Rominson Pirie leaves per steamer "Warrimoo" for the dus tralian colontes. sailing on the toth inst. from Vancouver, in the interests of the W. E. Sanford Manufacturing Company, clothing manufacturers of Hamilton.
J. T. B. LEE, manufacturers' agent, and G. R. and Thos. Buck. of Toronto, are forming a joint stock company for the pripose of buying and selling dry goods and carrying on a general commission and agency business in dry goods. Capital stock, $\$ 250,000$.

## CHEMICALS AND DYESTUFFS.

The market remains quiet. We repeat our last month's quotations. no appreciable change having taken place.

| Bleaching | 220 |  | 250 |
| :---: | :---: | :---: | :---: |
| Bicarb soda | 225 | -• | 235 |
| Sal soda | - 70 | * | 075 |
| Carbolic acid, i lb boutles | 025 | * | - 30 |
| Caustic soda, 60 | 230 | - | 250 |
| Caustic soda, $70{ }^{\circ}$ | $=60$ | - | 275 |
| Chlorate of potash | 015 | " | 020 |
| Alum | 140 | " | 150 |
| Copperas | 070 | * | - 75 |
| Sulphur flour | 175 | - | 200 |
| Sulphur roll. | 200 | * | 210 |
| Sulphate of copper | 400 | $\cdots$ | 505 |
| White sugar of lead | 0073 | - | - 033/2 |
| Bich polash | 010 | - | 012 |
| Sumac. Sicily. per ton | 70 00 | " | 7500 |
| Soda ash. $4^{\left(3^{\circ} \text { to } 55^{\circ}\right.}$ | 125 | - | 150 |
| Chip logwood .... | 200 | $\bullet$ | 210 |
| Castor oil. | - 005s |  | 007 |
| Cocannut oil | c 06\% |  | 007 |

# A. KLIPSTEIN \& COMPY <br> 122 PEARL STREET, NEW YORK Chemicals and. Dyestuffis 

ANILINE COLORS OF EVERY KIND

## BPECTALTHEs


Also caustic potash for wool scouring
WPIGHT is DALLYN, Agents - - HAMILTON, Ont.

## RAW FUR MARKET REPORT.

Montreal. Feb. 1 ght. 1895
The market is still quiet, though the prospects are somewha brighter.

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Otter | 900 " 12 00 each |  |  |  |
| Mink | 100 | " | 150 | " |
| Marten | 100 | " | 125 | $\cdots$ |
| Fisher | 300 | - | $500^{\circ}$ | $\cdots$ |
| Muskrat, winte | 008 | ${ }^{*}$ | 012 | " |
| Red fox | 100 | - | 150 | * |
| Raccoon | 020 | - | 060 | " |
| Skunk | 020 | - | - 60 | 1 |
| Lynx | 175 |  | 250 | $\cdots$ |
| Black bear, large | 1200 |  | 2000 | $\cdots$ |
| smal | 500 | , | 1000 | , |

C. M. Lampson \& Co.'s January fur sales in London resulted as follows: Raccoon, 30 per cent. lower than March: muskrat, 15 per cent. do.: muskrat, black, same as March; skunk, 10 per cent. lower than March oppossum, to per cent. higher than March: mink, 10 per cent. do., marten. 60 per cent do . sable, Russian, 25 per cent. do.: fox, red, same as March; fox. gray. do.; fox, white, i 30 per cent. higher than March: fox, Nitt, to per cent lower than March: fox, Japan, 17 夋 per cent higher than October: bear. black, 5 per cent. lower than March, bear, brown, 30 per cent higher than March: bear, grizzly. zo per cent. do. : bear, Russian. 30 per cent. do.: icaver, 10 per cent. lower than last January: lynx. 15 per cent. lower than March: wolf, northern, 5 per cent. do.: wolf, southwestern. 30 per cent. do. : cat. Civet, 30 per cent. do. : cat, common, 10 per cent. do.: squirrel. 15 per cent. higher than March: badger, to per cent. lower than March, grebe, 20 per cent. do.: hair seal. dry. 30 per cent do. : lamb. Thitel, 15 per cent. higher than October: chinchilla, bastard, 15 per cent do : oppossum, Australian, same as October, wallaby, do. . wombat. 15 per cent. higher than October; kolinsky, same as October, monkey, 25 per cent. losver than October ; salted fur seal, N.. WV. coast. same as last Novem ber: salted fur seal. Lobos Island. do.

TTO NANUEACTUKERS AND COMMISSION MFIRCHANTS-T 1 would like lines on commission covering sersitery from Winalpeg to Jreific Coast, calling on Wholestie Iry Goods and larger zetaliers. Addicss, "Travel. ler," \&. O. Box 1969. Montreal.
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FSGLISHIMAS, now residing in United Stases, thoroughly gractical itn the manufacture of Marseilles crochete, Niicheline qullis and Turhey zed table covers, is desirous of meeting capitallsis who are williug to wut capital against experience, or would superintend new blace in a suck company, if compensation is saisiactory do objection to any location, and is wiling to
 ured fabries. Adaress !.O. Box 26\%, Leverly., New jcrsey, (3.S.A.
WANTED-13y a Dlatitime Province mill-a piece zewet and inender號

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

Bole Agonts for the Unitod giates and Ceanda tnr tho
agtien-eesellsehaft fur anilin-fabrikation
Hanufacturers of ANILINE COLORS, Bcrlin. Germany
NETV YOMK : Bis Berkman St.
MOSTON: 100 mnl 108 Nilk Ss. MiILANELPHIA: 123 aull $12 S_{\text {Arch }} \mathrm{St}$.
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Insurance aganst butalary and houscbreaking. Policiea ciear and free frow vexativus of resirictive clausers
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Manufacturers os Hadded Garpet Lining and stair pads Hamilton, Ont. Ofrick:
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THOMAS KER
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## THE WOOL HARKET.

The first serics of colonial wool auction saley in London for the present year commenced on the isth ult There was a poor opening selection, and competition was hesitating and irregular. but it improved somewhat later There were a large number of bugers for the smerican market. On the whole, prices showed a downward tendency. New South Wales. scoured, fetched Gid to
 locks and pieces, 3 ;/d. $1061 / 2 \mathrm{~d}$ Queensland, scoured, $51 / 2 \mathrm{~d}$. 10 is.: locks and pieces, $51 / 2 \mathrm{~d}$, to $81 / 2 \mathrm{~d}$ : greasy, $31 / 4 \mathrm{~d}$. to $7 \mathrm{~d} . ;$ locks and

 to $91 / 2 \mathrm{~d}$. South Australia, scoured, $10 / 2 \mathrm{~d}$, to ind.; greasy, $4 / \sqrt{2} / \mathrm{d} .10$ 8d. locks and pieces, $3 \frac{1 / 4}{}$ do $6 d$. West Australia, greasy, $31 / 2 \mathrm{~d}$. to 5 d. . locks and pieces, $2!/ 2 \mathrm{~d}$. to $41 / \mathrm{d}$. Tasmania, scoured, $81 / 2 \mathrm{~d}$. New Zealand, scoured, $41 / \sqrt{10}$ to 1 ridd. locks and pieces, std to 8id.: greasy, 4id to $9 \frac{1 d}{2}$.: locks and pieces, $5 \frac{12}{2} d$. to 73d Cape of Goad Hope and Natal, scoured, 58d to 15. 3d.: greasy, 3 d to Gd . locks and pieces, 3 3d. to 4 d.

The Montreal wool market continues to improve steadily. The advance of $2 c$. in Canada necce has been fully maintained. Prices remain firm as follows: Greasy Cape, $13^{1 / 2}$ to 60 .; Canadian fiesec. so to 22 C : 13. A . ssoured. 20 to 32 c . In Canada pulled wool $20 t 028 \frac{2 / 2}{2} \mathrm{e}$ is quoted for supers, extra 23 to 26 c .: Northwest wool. is $1012 \mathrm{C}: \mathrm{IB} . \mathrm{C}$, 1010 IzC .

The Toronto market also is in a much better condition now :han for many months past. Tho large exports of Canadian fleece conabiog wool to the United States that have taken place from Ontario, abgregating, it is stated, $2,000,000$ Ibs, have practically cleaned up the stocks at all the principal points, and it would now bo difficult to bay a round lot of Cazadian Beece. The large amount exported of late to the United States, and the great reduction in stocks that maturally followed, has adwanced the price of Canada flecece combing, and it is now quoted in Toronto at 20 .
lothing is quoted at $19 \frac{1 / 2}{}$ to 200 There is a better feeling in pulled wools also. in sympath; with the demand ior fleece for export. Some pulled wools also have been shipped to the States. Prices are steadier at 18 to 29 c ., and extra is quoted at 20 to 21 c .

## RECENT GANADIAN PATENTS.

E. 14 Andrews, Dover, Eng , has patented a fastening for ladics' hats, formed froma single length of wire, one end of which is sertical, and forms a shank, and the main part is bent into a curve or sparil form so as to engage wath the hair, and a plate fixed on the under sude of the hat, with a hole through which the shank passes and serving to carry the fastener.

Solomon Schwara. .iew York, has patented a garment clasp, comprising a phate with a slot in it, enlarged at one end and deflected at its inner ead. A headed stual or post is adapted to cagage with this slot.

John Ceorie llaslam, Ihiladelphia, has patentel a dyeing machine, which comproses a dye vat, a yarn frame suppories by the lat wata lecedum of muvement upwards, devices to independently recprocato the yarn frame upon the point at which it is supported by the lift, by means of which the yarn frame may be raised from the vat or carried into it by the lift, but without any disconnection from the same
J. C Pennington, Patterson. N.J., has patented a process for retting fibrous plants. To the water used in the process is added a liquid comaming microbes known to produce proper retting, and also substances contaning nutrozen. phosphoric acid, sulphuric acid, chlorine. magnesia and patash.
T. $\lambda$ Coste. Perth. Ont. has patented a stlf-acting and pattern kntting atuschment for knitting machines. It has, besides, the radially groovod dial and dial post, a cam ring adapted to sutate upau the rim of the dial and having its upper edge formed into a series of cams by inclined planes forming shallow tecth corresponding to the grooves, 2 cross.bar journalled upon the hub of the dial past at tho bottom of the dial and interlocking with the
power edge of the cam ring, a finger on each side of the cross-bar, a stud secured to the under-side of the dial adapted to have a cross-shaft journalled in it, a cross-shaft carrying a worm wheel and a double cam at each end adapted to bear on the fingers of the cross-bar, and a worm secured upon the dial post and gearing into the worm-wnecl on the cross-ghaft.
J. T. Hozan Jersey City, N.J. has patented a sewing machine In which, attached to the device for imparting motion, there is a plate provided with a projection in the plane of the faed device. and extending beyond the feed-whetl, and having shoulders or projections co-acting with a pin or projection extending from the fect-wheel, the plate co-acting with the feed device periodically to derive motion from it. Means aro provided for producing friction to hold the plate in position.

Edmund Kingsley Baker, Springfield, Mass., has patented a spinning machine in which there are an intermittently operating letoff device for controiling the delivery of the roving of a uniformly rotating twister and drawing-rolls having a continuous rotary motion and means for accelerating this motion at the same time with the let-off of the roving.
trade marks.
The Brainerd and Armstrong Co., New London, Conn., have taken out a patent for thread, cord and twist of silk, cotton, wool, worsted and other fibre for cmbroidery, knitting, sewing and other purposes.

John Macdonald \& Co., dry goods, \&c.. Toronto, have taken out a general trademark.

Jones Brothers \& Co., Nanchester. Eng., have taken out a trademark for dusters and polishing cloths.

The Canadian Oil Co., Sarnia, Ont., have :aken out a trademark for new oils for use in woolen and other manufacturing industries.

## AMERICAN TEXTILE PATENTS.

The following list of patents granted by the United States Patent Offee for inventions relative to textiles and textile machinery is reported for The Canadias Journal of Fabrics, by Glascock \& Co., patent attorneys, Washington, D.C., of whom printed copies can be obtained for 25 cents each - -
A. M. Guyton. Hopwood. Ma. cloth hoiding and display reel

C E Kelley, Laconia. N. H., circular knitting machine
J. D. Hemphill, Huntington, Conn., feeding attachment for knitting machines.
J. F. Malner, Riverside, Ill., textile fabric for tubing envelopes.
H. T. Spencer, Biddeford, Me., carring engine stop motion.
W. R. Dillmore, Philadelphia, Pa., circular knitting machine.
R. von Seydlitz, Munich, Germany, loom for weaving Turkish carpets.
W. Mchlichael, Woonsacket, R 1., loom loose reed motion.
W. Wattic, Worcester. Mass., iwo patents, loom pattern mechanistn.
H. Bardsley. Philadelphin, Pa., thread tension regulating device for loom shanles.
M. J. Whittall. Worcester, Mlass , woven carpet
J. Lancaster, Dover, NH , pick measuring device for looms.
S. M. Hamblin, New IBedford, Mass . tension device for loom shuttles.

Hisch \& Co , dry goods, Napanee, have assigned Liabilitics. $\$ 00,000$, ass:ls, $\$ 70,000$

Joseph Latonde, dry goods, Valleyficld. Que , has assigned, with liabilitics of about $\$ 18,000$
R. H. Gray \& Co., makers of white goods. Toronto, whose premises were destroyed in the late fire in that city, are seeking a compromise with their creditors at $63 \%$ cents in the dollar.

Tue imported goods belonging to the Canada Jute Co., Montreal, which were, as it was shown, wrongfully scized by the customs authorities, have been now released in accordance with a judgment rendered by the Exchequer Court in favor of the plaintiffs in their action against the Crown.

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that absorbs with its rays the colors that once gave a fabric value. Many a yard of fine goods has given to the sun all that made it pleasing, all that made it bright. No reason, though, why the goods should be sold as remnants, or why they should be a loss. Let us

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The success of tho Canadian Enganeer hos been unprecedented in the history of trade journelism in Canada. for not only was it encouraged and assisted from the start by able Canadiat writers in the various branches of engincering, 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, tavo justifed the publishers in swice enlarging the paper in its first yedr, and preparations are now being made for a further ealargement. It is hoped, by this increasc. to make it twice its original size. While this will mean a large growth in advertising
patronage. it will also mean a greater varicty of reading matter and illustrations for our subscribers

CONTENTS OF FEBRUARY, 1895, NUMBER:


Send for Sample Copy and Adveriting Rates.
BIGGAR, SAMUEL \& CO.

02 Church St., TORONTO, Ont. or Franor Blig., MOMEREAR, Quo.
M. B Lan \& Co., manufacturers of women's garments, Winnipeg, have assigred.
II. A. Stone, dry goods merchant. Toronto, has assigned. Liabilitics, \$22.000 . assets, \$26.000

Sprsce \& Co. dry goxds, Kingston, havo obtained an extension of time from their creditors.
J. S Mackault, dry goods, Strathroy, Ont., is in financial difficultes. His liabilitics are $\$ 15,0 c o$.

Jous Fisumr, woolen manufacturer of Huddersfield, England. has been on his annual visit to Canada
U. Fonest $\&$ Co , dry goods, Ounwa, are trying to compromise with their creditors at 35 cent 3 on the dollar.
J. W. Dales, dry goods merchant, Mitchell. Ont., has assigned. Liabilities over $\$ 8.000$, assets about $\$ 7.000$
P. J Cork, dry goods merchant. Quc. is wanting to sell his stack, and inwtes tenders for the whole amount it is valued at $\$ 36,000$

Dohbrty \& Foster, tailors, St. John, N.I., are secking a conspromise at the rate of 30 cents in the dollar The liabilities are \$15,000.

Tins Department of Miluin and Defence have given an order for 3.000 pairs of men's calf mitts to W . H. Storey $\&$ Son, of Acton, Ont.

Smith i Stkeet, dry goods merchants. Seaforth, Ont., have assigned to jas. $P$ Lingley. of Toronto. Liabilities, $\$ 10,000$ : assets. $\$ 14,000$.
C. E. Bentley, of the firm of Blanchard, Bentley \& Co., dry goods merchants, Truro, N.S., has been elected president of the Truro Board of Trade

Thos bonnh. Jk., and jos Colbeck, Montreal, have registered a partnership under the titie of Thomas Sonne $\& \mathbb{C}$., as manufacsurers of canuas goods, etc

Mrs Magath Maud Shovrlis has given notice that she will do business as a dyer, under the name and style of the Parisian Stean Dye Works, Montreal.

Mrs. Marrts Vinbuerg, of Montreal, has given notice that sho will conduct business as a clothing manufacturer. under the mame and style of 11 Vineberg \& Co

Rout Parker, of R Parker \& Co., dyers and finishers. Toronto, paid a visit to Montreal early this month, calling upon their numerous customers in the East.

Wr Casslus. A McIntyre, $\}$ K White $\&$ Samuel Herd have registered partnership to carry on a dry goods business in Montreal under the etyte of MeIneyre, Sons $\mathcal{E}$ Co

1\# 13. Shanwith if Co., dry goods, Westminster, B.C.. have assignet at demand of John Macdonald \& Co. Toronto, the latter leinge creditors to the amount of nearly $\$ 10,000$

Tus firm of Hyslop. Caulfeild \& Co., wholesale men's furnish. ings, of Toronto, have dissolved partnership. Mr. Hyslop will continue the business, and W. Ifyslop, jr., wilt become a partner.
[uy Chanese-fapancse wat has already had some eflect on Canodian industry. J E Molleur. of St John's. Gue., has 500 tons in braded straw for the manufacture of hats, detained at some inland place in China.

Tite erection of a fiax mill at Grand Valley, Ont., is talked of. and, to encourage the scheme, the farmers of that vicinity have betueen them agreed to cullivato about 300 actes of flax for tho next two years. The moving spirit is John Park, of East Luther. Ont.

TG Ponsen i Co., wholesale upholsterers supplies and carpets, anil Foster \& Pender, reaill upholsterers, both of Toronto. have assigned to k. R. C. Clarkson. for the benefit of their creditors The liabilities will exceed $\$ 100,000$, the principal creditors being IEnghsh houses, and the assets will almost equal this amount. T C. Foster and David A. Pender formenly dealt exelusively in the wholesalo trade. but since the destruction of their watchouse by fire a few years ago have carried on a retail business as well. The
loss incurred by the fire and the slowness of collections latterly. brought about the present dificulty.

A warrant was issued last month for the arrest of Clinton $\mathbf{S}$. lierbert, dry goods merchant, Toronto. Herbert came to Toronto from Detroit a few months ago. with a capital estimated at between $\$ 7,000$ and $\$ 10,000$, and stocked his premises with about $\$ 40,000$ worth of dry goods. At first he did a good business, but latterly he had been falling behind in his payments, and a few days ago disposed of his entire stock to a buyer of bankrupt stocks at to cents on the dollar, for $\$ 9.000$ in cash. Ho then left the city and has not been heard of since. The liabilities are about $\$ 30,000$ the principal cretitors being S. Greenshields, Son \& Co., and Thibaudeau Bros. \& Co., Montreal ; and john Macdonald \& Co . S. F. McKinnon. Samson, Kennedy \& Co., and Alexandor \& Anderson, of Toronto.
"As fine as silk " is a common phrase to signify extreme fineness, but one which, when rightly understood, is much more expressive, is " as fine as a spider's web." for thère is no known thread so fine as that. A single strand of a spider's thread is so fine that the naked human eye cannot see it. What is usually seen is in reality a cable, made up of thousands of strands. the method of making it being one of the greatest wonders of nature. A close examination of a spider reveals the fact that its thread comes from a circular spot near the extremity, and that in this spot there are, according to the kind of spider. from four to six knobs. Each of the knobs is full of minute holes, sosmali that a good microscope is necessary in order to see them. Through these holes the delicate strands are spun. About an eighth of an inch from the holes the strands are joined together, and the result is the spider's thread, with which all are familiar. The little spinner attends to business as closely and as carefully as does the weaver of the finest silk fabric. It has on each foot three claws, one of which is a sort of thumb, while the others are toothed like a comb. These claws are constantly used to help the strands from tangling before they are joined in the thread. The material from which the thread is made is secreted in the animal's body. It is a glutinous subssance. and the strands dry while they are passing from the little apertures to the point where they are joined together. One authority on the subject. Reaumur, calculated that it would take, 000 spider strands to occupy a space equal to the point of a needle, while another, I.cuwenweck, esti. mated that it would take $4,000,000$ of them to make thread as large as a baur. Rut while the spider's work is the more delicate, that of the silkworm is the more useful. Unlike the spider, whose spin. ning works are at the lower extremity, the silkworm's factory is near its mouth. The crude raterial is seemingly muchalike in the two classes of spinners-a gunumy or glutinous pulp. The spinning appurtenances, however, are entirely different, the silkworm making only two strands for its thread, while the spider makes thousands.

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