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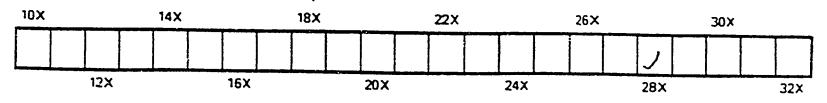
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THE CANADIAN MANUFACTURER.

2

June 17, 1898.



# THE PLANSIFTER This Machine Leads; Others try to Follow!

The floor space required is so little that sufficient room can be spared in the smallest mills.

#### Its form of construction is such that

It is the most convenient to

Spout to. Spout : m. Get at. Regulate. Examine flour stocks. Examine separations. Examine sieves, ) Without Repair sieves, Jremoving spouts. Easily Balance.

# Some Advantages are:

Saves spouting, saves elevatore, saves conveyors, saves millwrighting:

Displaces 6 to 10 ordinary reels.

All parts are casy of access without leaving the floor.

(No step-ladders required).

All passages for stocks are straight, large, ample, will not choke, and communicate directly from sloves to outside.

#### There are no joints at edges of sieves for stock to leak through.

Every separation and flour stock is taken independently from the machine, and can be examined before mixing with other stocks.

#### Each section of machine handles one reduction and can be independently regulated to produce the exact result desired.

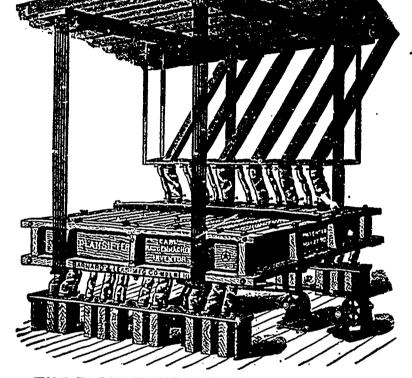
Its bolting and results are completely under the control of the miller while running.

The Plansifter is perfectly balanced, so that it imparts no vibration to mill building.

Requires no bracing whatever.

impurities all floating to the surface, are carreed off and never again mixed with pure stock.

The Plansifier will be placed on trial on its merits, and the miller himself left to be the judge as to its performing all that is claimed. If not perfectly satisfactory machine need not be kept.



ABSOLUTELY NO SCOURING ACTION,

THE PLANSIFTER MILL has plenty of light, air and room, with easy access to every stock.

THE PLANSIFTER produces results far superior to any other machine or system.

POWER SAVED-The saving in power:alone in steam mills will soon pay the cost of a PLAN-SIFTER.

THE PLANSIFTER makes pure, white, evenly granulated flour, free from specks, without using fine numbers of cloth.

It Saves Space It Saves Power It Saves Cloth Makes Better Separations Makes Purer Stock Makes Better Flour

Makes Better Clean-บอ Makes Closer Finish Makes Larger Yield Makes Milling Easier No Vibration No Noise

No Dust Easily Controlled Insures Uniform High Grade **Increases** Capacity Must Come into General Use

Big Mills Cannot Afford to do Without them, and they do Charming Work in the Smallest Mills.

SOLE LICENSEES AND MANUFACTURERS FOR CANADA

WM. & J. G. GREEY, 2 Church St., TORONTO



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THE CANADIAN MANUFACTURER.



6

June 17, 1898.



June 17, 1898.

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# **Rubber Belting?**

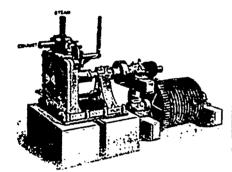
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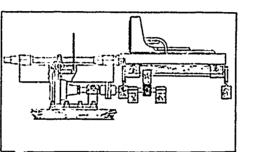
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CAPITAL \$2,000,000.

#### Manufacturers of all Kinds of Rubber Goods

ONTARIO BRANCH-Cor. Front and Yonge Streets, TORONTO.





THE DAKE STEAM FEED

7

EMBODIES THE FOLLOWING ADVANTAGES :

Simplicity of Construction. Small Space Occupied. Economical Use of Steam.

Easy Adaptation to either New Mills or those now in use. Positive and Easy Control. Cheapness.

The movement of the engine in either direction is under the absolute control of the sawyer, thus accommodating the speed of the feed to the size of the logs. Mill men, who have used other makes of Steam Feeds, comment favorably on the economical use of steam of our Feed over others.

Write for Catalogue and full particulars.

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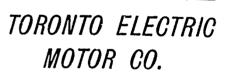
#### HAMILTON, ONT.

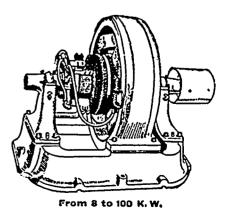
Begs to announce that in future it will conduct its business under the name of

# The T. & H. Electric Co.

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# DOMINION BRIDGE CO., Limited,

MONTREAL AND LACHINE LOCKS, P.Q.

Steel Bridges for Railways and Highways,

Steel Piers and Trestles, Steel Water Towers and Tanks, Steel Roofs, Girders, Beams, Columns for Buildings.

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Tee Rails, 12, 18, 24 and 28 lbs. per yard

- HEAVY FORGINGS a SPECIALTY.

"FERRONA" PIG IRON, For Foundry Use.

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# GALT Machine Knife Works



8

June 17, 1898.

The Goldie & McCulloch Co., (Limited)

#### GALT, ONT. MANUFACTURERS OF STEAM ENGINES, BOILERS, WATER WHEELS Flouring and Saw Mill Machinery, Wood Working Machinery, Wool Machinery. Fire and Burglar Froof Safes, Vault Doors. Wood Rim Split Pulleys, Friction Pulleys, Friction Clutch, Couplings, etc. "Dumfries Foundry," - - Galt, Ontario, Canada. THE IMPERIAL OIL COMPAINY, LIMITED HIGHEST AWARDS AT THE WORLD'S FAIR, CHICAGO, UPON Lubricating, W. W. Illuminating Oils, Paraffine Wax, etc. WE MANUFACTURE ALL GRADES OF OILS, GREASES, SOAP STOCKS, CANDLES, WOOL STOCKS, LEATHER AND TANNERS' OILS, FUEL GAS, MACHINERY, CYLINDER OILS, ETC., And Solicit opportunity to compete against any Oil on the Market. 127 Write for Prices and Samples. THE IMPERIAL OIL COMPANY, (Limited) Head Office. PETROLEA. CAN. ....BRANCHES.... LONDON, ONT. TORON'TO, ONT. WINNIPEG, MAN. ST. JOHN, N.B. , ONT. PETERBORO', ONT. VANCOUVER, B.C., MONCTON, N.B. HAMILTON, ONT. QUEBEC, QUE. HALIFAX, N.S. MONTREAL QUE. CHATHAM, ONT. PETERBORO', ONT. GUELPH, ONT. WINDSOR, ONT. STRATFORD, ONT. KINGSTUN, ONT. JOHN BERTRAM & SONS. **CONTARIO** DUNDAS, -**Offer for Sale** A Foundry Gupola, NEW, Complete, Shell, 52 in. Diam., 14 ft. long. Stack, 20 ft. long, 38 in. Diam. Base plate, Columns Air Drum and Tuyeres. No. 7 Sturtevant Fan and all Conducting Pipes. Also Complete Fire Brick for Lining. ★ THE ABOVE IS **UNFERED** AT A BARGAIN" ×

Engine Lathe with Turret Attachment.

## THE CANADIAN MANUFACTURER.

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June 17, 1898.



June 17, 1898.

THE CANADIAN MANUFACTURER.



ESTABLISHED IN 1880.

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J. J. CASSIDEY,	-	-	-	-	•	Editor
J. C. GARDNER,	-	-	•	Ви	siness	Manayer.

#### THE COTTON INDUSTRY.

The new policy adopted by the Dominion Cotton Mills Company indicates that it intends to keep abreast with the most energetic and progressive concerns in other countries. In a recent issue allusion was made to the fact that this company had made propositions to the municipal authorities of the cities of Kingston and Brantford, Ont., to grant it certain money bonuses and tax exemptions, for which favors the company would very considerably enlarge their productive capacity, giving employment to a largely increased number of operatives, with the alternative of the dismantling of their mills in these cities, and the assembling of them and several others, in a more convenient place.

Regarding the mills at Kingston, the company state that the following conditions prevail :- The mill was built in 1880 and was acquired by the company in 1891. Many improvements have been made in it since it was built, but no replacement of machinery, much of which is now antiquated and not up-to-date, and the output of the mill has consequently been seriously impaired when compared with similar mills equipped with modern machinery. Ever since the company acquired this mill, in 1891, it has been operated at a loss, which, last year was greater than ever. An investigation of the affairs demonstrated that the mill could not be made to pay, and therefore but two courses were open to the company, one to reorganize and re-equip it with the best modern machinery, towards the expense of which the city of Kingston was requested to contribute; the other alternative being to abandon the mill and concentrate the energies of it at another place.

Regarding the Brantford mill, the company say that it is unduly expensive, all the objections prevailing at the Kingston mill applying to this, and to equip it with new machinery and enlarge its capacity would require a large expenditure of money, the burden of which the city is invited to share.

The principal mills of the Dominion Cotton Mills Company are located, two at Hochelaga, near Montreal, one at Magog, Que., and one at Halifax, N.S., other mills of small capacity being at Kingston and Brantford, Ont, Coaticook, Que., Windsor, N.S., and Moneton, N.B. The operations of the consolidated mills have never, so we are informed, resulted in a payment of a higher dividend than six per cent. It became evident to the company that if the operations of the Kingston and Brantford mills were to be continued it could only be done by the enlargement of their capacity and the introduction of entirely new machinery; and as regards the other mills at Coaticook, Windsor and Moncton, they must of necessity be abandoned and the energy of them concentrated at a more convenient place.

If the Canadian market for cottons, which is already glutted, were alone to be considered, then all these smaller mills might with advantage be closed. But the company has now a large and expanding trade with China and the East Coast of Africa, and it is the policy of the company to push this trade to the utmost, and so establish a large permanent foreign trade. It has been proved, after a number of years of successful trial, that an up-to-date Canadian mill equipped with the latest machinery, can compete to advantage with the world in certain foreign markets. If this fact is once realized and appreciated, there is practically no limit to which the cotton industry could not be pushed.

It is open to the company to consolidate the small capacity mills in one large establishment at Three Rivers, Que., where the large concern could be operated at comparatively small expense by electricity generated at Shawinegan Falls, which are but about twenty-four miles from Three Rivers. The power of these falls is said to be greater than that of any other available on the American continent, with the exception of Niagara Falls. It is obvious that consolidation in the manner suggested means a great saving to the company, and many advantages over the continued operation of the isolated mills.

The proposition of the company to the city of Kingston is, for a consideration, to remodel the mill there at an expense of \$150,000 and increase its capazity to at least 500 looms. This would necessitate the employment of about 350 hands instead of the 260 now engaged, which would double the present pay roll of \$45,000 per annum. The present capacity of the mill is 20,000 pounds of cloth per week, while under the proposed enlargement the output would be 40,000 pounds. The company ask the city to grant it a bonus of \$25,000 and exemption from taxation for twenty years.

The Brantford mill now employs about 200 hands, and the annual amount of wages paid to them is about \$40,000, its capacity with its 296 looms being a weekly output of 20,000 pounds of cotton cloth. If the mill was remodelled the capacity would be increased to 400 looms, involving the employment of about 300 hands, an increase of the annual sum paid for labor to \$75,000 producing 50,000 pounds of cloth per week. The suggested changes would require an expenditure on building and equipment account of at least \$100,000. The company ask that, to insure the carrying out of these changes and improvements, the city of Brantford give it a bonus of \$30,000 and exemption from taxation for ten years.

In both the instances here alluded to, if the assistance asked for is not given, the company will dismantle and abandon their mills at these places. Under existing circumstances it is not possible for the employes of these mills to earn satisfactory wages, and this is due entirely to the fact that the machinery is antiquated and cannot produce as much as mills with modern equipment. At the mills of the Montmorency Cotton Company, at Montmorency Falls, Que., where the scale of wages is lower than at the Ontario mills, the hands earn almost double what the employes of these latter mills are getting; and the question that concerns the people of Kingston and Brantford is whether by granting the favors acked by the company they shall have these improved and up-to-date mills with them, or by a refusal see the industry disappear from their midst.

#### CANADA EMBRACES THE OPPORTUNITY.

A recent report to his Government of the British Consul at Zanzibar deals with the requirements of the people of that and contiguous country for cotton goods, the countries that supply them and the peculiarities of the trade; and he states that of all the imports to Zanzibar, that of piece goods is by far the most important, their value being equal to practically twice as much as any other article. The countries which supply these cotton goods were British India, Holland, America, Great Britain and Germany, in the order named. Perhaps the most important class of piece goods imported into that country is what is known as "grey cloti," an unbleached cotton cloth which is in great demand in the interior of Africa and forms in some parts the only currency. Of this cloth there are two qualities, the better coming very largely from America, and the poorer and less expensive from Bombay. With regard to the former, America was the first to introduce it into East Africa, "and," the Consul tells us, "that country has never lost her hold on the native market, so much so that whatever be the place of origin, the cloth is universally known there as "American."

The Consul also tells us that it is not only because America was the first in the field before Great Britain that her piece goods retain their position, for they are undoubtedly of a better quality than what Manchester had previously produced at the same price; that they were free from sizing, a fact fully appreciated by the natives, who observe that ne shrinkage is produced by washing, and who therefore rightly consider that in purchasing them they get better value for them by investing in goods which, when put in water, visibly decrease in bulk and depreciate in appearance. Other reasons for the preference for the America goods are that the cloth is stronger and stouter than the British goods, and that they can be depended upon to be always of uniform weight, and that it can be depended on to be always uniform as to length and width, which is not the case regarding other goods.

We are informed that the Montmorency mills are now sharing this East Africa trade with their American competitors, sending identically the same article, including the magic word "Americai." properly placed upon each piece of cloth; and it is an open secret that this move of the Dominion Cotton Mills Company to erect new mills at Three Rivers, to enlarge and modernize those at Kingston and Brantford, and also to cularge their Hochelaga plant is for the purpose of participating in this African trade also. Africa as a market for this line of goods is practically inexhaustible, and the advantages our Canadian mills will enjoy in participating in that trade in the way of cheap labor and exceedingly cheap power, will put our manufacturers on an exceedingly favorable footing as compared with those of the United States. Another feature of the situation is the fact that extensive works are

now being built at Valleyfield, Que., which are expected to be in operation in the coming August, where the very best and most improved looms will be manufactured expressly for the class of goods here alluded to.

Surely the outlook for Canada as a cotton manufacturing country is exceedingly bright.

#### RE CLASSIFICATION OF EXPORTS.

In an editorial re Canadian exports in our issue of May 20th was given the values for certain years of the exports of Canadian products as set forth in the Trade and Navigation Returns, and also by a new classification in which some articles in some of the old classifications were transferred to another. Under the old classification the average value of what is described as "Manufactures" for the years alluded to amounted to but about seven per cent of the entire exports of the Dominion, while under the new classification "Manufactures" is credited with over twenty-seven per cent.

A friendly critic contends that it would not be an advisable act of the Government to abandon the old classification, inasmuch as the people are satisfied with and accustomed to it; and furthermore, the new classification as set forth in our editorial is not scientific, complete and exhaustive in that some of the articles transferred from the old to the new should not be thus changed, and also that if changes must be made, the list should include many more articles than were included by us.

In answer to this we would say that if the old classification is incomplete and misleading it should be changed, even if distasteful to people who do not take any large amount of interest in such affairs, being assured that there are many more people than our critic imagines who are particularly interested in having the exports of the country properly classified, and particularly showing the great value of our exports of manufactured products. Under the old classification no great lustre was shed upon our ability to export products of our factories and workshops, while under the new it is shown that more than twenty-seven per cent. of the value of all our exports had their origin in these industrial establishments. If the old classification is misleading it should be reformed to meet a demand for greater accuracy; and it may be pointed out with much propriety that many articles not embraced in the new classification, as displayed by us, should be changed to Manufactures from where they now are. Thus "The Mines" is credited with pig or ingot copper, and with pig lead, while we all know that no mine ever produced these articles. The ores of them only are taken from the mine but not the refined products ; and the same may be said of nickel matte, and also of refined or kerosene oil. So also the same argument prevails regarding "The Fisheries," under which is credited canned fish and lobster, fish oil and the furs of marine animals. So also regarding "The Forest," under which are enumerated leached and unleached ashes, knees and futtocks as well as the other items enumerated in the statement exhibited in our issue of May 20th. Under the old classification "Animals and their Produce" are enumerated butter, cheese, dressed furs, grease, lard, meats, canned meats, lard oil and tallow, all of which, in our opinion, ought to be classified under "Manufactures," while of "Agricultural Products," balsam, bran, cider, flax, dried and canned fruits and vegetables, malt, maple sugar and syrup, and perhaps flour of wheat, buckwheat, oatmeal, etc.

From our point of view it is very important that the manufacturing industries of Canada should receive every credit they are entitled to in the exports of their products, and where, even by what our critic intimates is a faulty arrangement of what may be called a new classification, it is shown that more than twenty-seven per cent. of the total exports of Canada should be credited to "Manufactures," we are quite sure that a more scientific and thorough classification, as indicated in our reference to other general divisions, would disclose a condition even more favorable to our exports of manufactured products.

It would be very much in the interest of our manufacturers if the Government were to act on these suggestions and classify the export tables accordingly. The nation that manufactures for itself prospers—the nation that manufactures largely for export should certainly be in a most prosperous condition.

#### FRAUDULENT ADVERTISING.

We have heretofore taken occasion to congratulate Hon. Mr. Mulock, our Postmaster-General, upon the step he has taken to compel all newspapers going through the Canadian mails to contribute to the support of his department by paying a fair rate of postage; and, having inaugurated this reform, we suggest to him that another step might be taken somewhat in this direction, by excluding fraudulentadvertising matter from the mails; or, if that cannot be done, then let there be a law passed prohibiting such advertising being imposed upon the public. The New York legislature has recently passed such a law that reads as follows:—

"Any firm, person, or partnership of persons, or any employee of a firm, person, or partnership of persons, who, either in the newspapers or other periodicals of this State, or in public advertisements, or in communications intended for a large number of persons, knowingly make or disseminate any statements or assertions of facts with respect to his or her or their business affairs, especially concerning the quantity, the quality, the value, the price, the method of production or manufacture, or the fixing of the price of his, her or their merchandise or professional work, or the manner or source of purchase of such merchandise, or the possession of awards, distinctions, or the motive or purpose of a sale, intended to have the appearance of a particularly advantageous offer, which are untrue or calculated to mislead, shall be guilty of a misdemeanor.

Such a law would strike a heavy blow upon many concerns of which we have knowledge, as is evident to readers of the newspapers, but it would be in the interest of the public who are but too ready to swallow the stuff offered of bargain days and cheap goods. Fraudulent advertising has flourished to a wonderful extent in recent years, and if it is abolished these concerns, preying upon the confidence of the public, will be driven from their illegitimate practices. Thousands of innocent people have been made to suffer effects of such advertising and the stamping out of the abuse will be greeted with delight alike by the public and responsible advertisers and publishers. The abuse of the advertising privilege has been carried too far, and it is time that it should be stamped out everywhere.

Mr. Mulock will confer a further favor upon Canadian newspapers and legitimate Canadian advertising by obtaining the enactment of a law similar to that above quoted.

#### THE WORLD'S WHEAT SUPPLY, 1897-98.

In the last issue of this journal a review of the movement of the wheat crop of the world up to May 1st was given, and the position as then reported appeared to indicate that the importing countries of Europe would require to purchase 125,000,000 bushels of foreign wheat during the thirteen weeks from May 1st to July 31st, and that it was difficult to see where this supply could be obtained.

We have now full returns for the month of May, which show:

Wheat and flour affoat for Europe, May 1, 1898 Stocks in store in principal importing countries May 1,	40,970,000
1898	15,880,000 45,048,000
	101,898,000
Wheat and flour afloat for Europe, June 1, 1898 Stocks in store in principal importing countries, June 1,	45,040,000
1898 Quantity of foreign wheat taken for consumption	16,320,000
during four weeks in May	40,538,000

101,898,000

The quantity of foreir a wheat gone into consumption during May corresponds very closely with our former estimate of requirements, in fact, slightly exceeds it. Mr. F. Hammesfahr, of Antwerp, a recognized authority on the world's grain trade. in a letter to the Liverpool Corn Trade News, dated May 27th, estimates the requirements of Europe for foreign wheat for the ten weeks-May 22nd to August 1st-15,300,000 quarters, made up as follows: France, fresh imports, 5,000,000, United Kingdom, 3,800,000, Belgium, 1,000,000, Holland, 500,000, Germany, 1,500,000, Italy, 1,500,000, other countries, 2,000,000, or a total of 122,400,000 bushels; making average weekly requirements 12,240,000 bushels, or compared with our last issue's estimate, 9,615,000 bushels. It appears probable that during the month of June, France will continue to import very largely during the suspension of the duty on wheat, which suspension expires on June 30th. It is estimated that from May 1st to July 15th France will depend upon foreign wheat for fully one-half of its bread consumption, at which rate its requirements for that period would be about 30,000,000 bushels. In the United Kingdom the supply of wheat, home grown and imported, for the nine months-August 1st to April 30th-amounted to 169,000,060 bushels, which left 60,000,000 to be provided during the three months ending During May the great advance in prices brought July 31st. to market immense deliveries from farmers, amounting in four weeks to 4,400,000 bushels; the imports of flour and wheat during those four weeks were equal to 11,770,000 bushels; there was withdrawn from stocks at ports, 1,000,000 bushels, making apparent consumption a little over 17,000,000 bushels, equal to about 223,000,000 bushels per annum, or a little less than average consumption. This leaves 43,000,000 bushels to be supplied in June and July. During the first two weeks of June the farmers' deliveries only averaged 473,000 bushels per week, and it is not likely that they will exceed 5,000,000 bushels for the two months, June and July. This makes 3S,-000,000 bushels of foreign wheat required for the United Kingdom in these two months. During the four weeks of May there was shipped to Italy 6,775,000 bushels wheat, to Austria, 1,600,000 bushels, to Greece, 500,000, or nearly 9,-000,000 bushels to these three countries, so that our estimate

of 15,000,000 bushels for three months is likely to be exceeded. A like statement might be made for estimates for Germany, Belgium, Holland, etc.

It is in dealing with the surplusses from exporting countries that unexpected results are found. In estimating the surplus likely to be shipped from Russia and the Danube from May 1st, and due to arrive at destination up to July 30th, we only allowed for 20,000,000 hushels. The actual shipments up to June 11th have amounted to 28,500,000 bushels. Judging from the tenor of Russian grain reports, the exports during July and August will be very light, as it is thought that the high prices in May attracted to the ports all the wheat that could be gathered from every hole and corner. However any opinion on this point is of little value. The extent of Russia's wheat crop and the quantity available for export have this season, as in past seasons, upset all the estimates of grain statisticians and dealers. The following are some of the estimates made as to wheat surplus of Russia, in 1897-98 :----Liverpool Corn Trade News, 96,000,000 bushels; London Miller, 88,000,000 bushels; Beerbohm, 104,000,000 bushels; Mr. Hammesfahr, Antwerp, S0,000,000 bushels. With seven weeks of the crop year yet to hear from, Russia has shipped nearly 117,000,000 bushels. At a very moderate estimate, the increase in Russian exports, May 1st to July 31st, over the quantity calculated in our issue of the 3rd inst, will wipe out half of the deficiency then assumed as likely to be experienced between the world's wants and probable supply.

A very similar condition is found in comparing actual with estimated shipments from United States and Canada. We only allowed for arrivals in Europe from these sources, 28,-000,000 bushels. During the six weeks up to June 11th North America has exported 25,000,000 bushels of which about 3,000,000 bushels shipped from Pacific coast ports will not reach Europe before July 31st. The boom in prices in May and the very promising prospects for the coming crop brought to market during the five weeks ending June 4th, an unprecedentedly large delivery of wheat for that time of year. The quantity of wheat and flour then delivered at primary markets was equal to 27,469,000 bushels as compared with 14,165,000 bushels in same five weeks in 1897, and for the whole country, 46,600,000 bushels, as compared with 27,000,-000 bushels in 1897. During the week ending June 11th, the deliveries of wheat and flour at the primary markets were only 1,917,000 bushels as compared with 4,532,000 bushels in week preceding, showing presty conclusively that reserves are nearly exhausted. It is hardly probable that the exports from North America for next five weeks will average over 2,000,000 bushels per week.

The reports of shipments from South America and British India since May 1st, have been on about a line with our estimate.

In conclusion, the returns so far show that the wants of Europe have proved quite as large as we estimated, but the shipments from Russia and the United States have been largely in excess of estimate. During the six weeks, May 1st to June 11th, the shipments of wheat to Europe have amounted to 70,000,000 bushels as compared with requirements of about 60,000,000 bushels, and have added largely to the quantity afloat. During the next six weeks it is likely that the shipments will average from 3,000,000 to 4,000,000 bushels per week less than in preceding six weeks, but with a continuance of present splendid prospect for the world's wheat crop of 1898, and low prices for future deliveries as compared with spot wheat, importing countries will allow their stocks to run down to the lowest quantity ever known.

The collapse of the Letter wheat deal has added another complication to the already weak position of the wheat market. Between Saturday 11th inst. and Monday 13th inst., wheat declined ten cents per bushel, both in Chicago and New York markets. The decline appears to have brought large orders to the Atlantic Seaboard for export to Europe, and it is altogether likely that there will be a considerable advance over present low prices, when the markets on this side become more settled.

#### EDITORIAL NOTES.

Canada supplies about one-fourteenth of the imported food of Great Britain.

A patriotic New Jersey father has named his son and heir, "Walter Sampson Schley Dewey Cullen." He should next have the boy launched, and break a bottle on his forward end. --Mail and Empire.

Why not do as the Jews do, and cut off the end of his bowsprit?

Speaking of the pork packing industry in the Maritime Provinces, and telling of the exceptionable advantages possessed by Prince Edward Island in this direction, the Halifax Maritime Merchant says :--

Both New Brunswick and Nova Scotia are making strong efforts to start the industry on a practical basis, and are meeting with very fair success so far as the preliminary work has gone. As is probably well known, the Middleton, N. S. Co., are almost in a position to announce the completion of their organization and then we have the interesting account of how matters in this connection are progressing in St. John. On the whole it looks as though pork packing instead of being undertaken as at present by individual merchants who have often packed as many barrels as their cellars and capital would permit, would fall into the hands of well-equipped companies who are in a position to develop their field, and work it to the greatest advantage. There is no question as to the demand, a glance at our import figures of American pork will very quickly show the market we have, besides the unlimited necessities of Great Britain, where Canada's products in this line are wanted, and will be paid for at good profitable prices. There is little doubt in The Merchant's opinion, but pork packing is destined in years to come to be a very valuable source of employment to both labor and capital, and on that account an avenue of industry to which too much importance cannot be attached.

The British Admiralty have published annual returns showing the fleets of Great Britain, France, Russia, Germany Italy, the United States and Japan. The fullest particulary are given respecting battleships, cruisers, coast defence vessels and torpedo craft, both built and building, the date of launch, the displacement, and the armaments are reduced to one common scale. A feature of the return is the disclosure of the fact that Great Britain has not completely finished a battleship since September, 1896, though no less than twelve battleships are building at present, half of them being of 12,950 tons displacement and the other half of 15,000 tons. They are also engaged in building no less than twenty-four protected cruiser; and forty-eight torpedo boat destroyers. France has at present on the stocks eight battleships and

#### June 17, 1898.

Russia has ten either building or about to be commenced. There are now fifty-two British battleships in commission, nine building and three ordered—sixty-four in all; armored cruisers eighteen, four building and four ordered—twenty-six in all; protected cruisers in commission ninety-six, twentyfour building—total 119; unprotected cruisers sixteen; coast defence vessels, armored, fifteen, special vessels, three; torpedo vessels, thirty-five; torpedo boat destroyers, fifty; building, forty-six; first-class torpedo boats, three; making a grand total of 377 vessels.

At a recent meeting of the Franklin Institute, Philadelphia, the operations of a new carbon dioxide engine were explained by Wm. F. Roberts. This engine is actuated by carbon dioxides, used expansively upon the piston of the engine in a manner similar to that employed in steam engines, but with the piston area reduced proportionately to the amount of power, as compared with steam. The speaker exhibited two engines, one horizontal and the other vertical, each supplied with 2 by 2 inch cylinders, and each capable of developing twenty-five horse power. The carbon dioxide gas for use in the engine is stored in liquid form in a cylinder prepared for the purpose. From this it is led in small tubes through a heating apparatus where it is brought to a temperature of about 150 to 200 degrees F., at which temperature it is introduced into the engine. By means of a unique system of valves, the gas at this high temperature and pressure is passed into the cylinders of the engine and then withdrawn from the engine at a temperature below thirty-two degrees F. In this way, the speaker said, the gas is made simply a vehicle for carrying heat energy to the engine by means of which it is transformed into energy in such a form that it can be readily utilized as power. The gas in a liquid form is relatively cheap, it being possible to secure it for \$3 per ton, while some firms agree to furnish it as low as S1 per ton. The gas is a waste product in many lines of manufacturing, and it is said to be jess expensive to liquefy it than it is for manufacturers to rid themselves of it in many plants where it is produced in the process of manufacturing other products. It is claimed for the carbon dioxide engine that, being compact, powerful and economical of operation, it can be adopted with success in many places where steam and electricity are now used.

President McKinley is recommending to Congress to make an appropriation for the expenses of a commission, to be appointed under the terms of the protocol signed a few days ago, for the settlement of all differences between the United States and Canada. The commission will consist of ten members, five to be appointed by Great Britain and five by the United States. Under the terms of the protocol, the commissioners will consider all outstanding questions between the British and United States Governments, but as all of these concern Canada, a majority of the British members will be representatives of the Dominion. Two of the United States commissioners will be Messrs. John W. Foster, former Secretary of State, and John A. Kasson, the reciprocity plenipotentiary of the United States. The commission will meet at Quebec instead of in Washington. Among the questions at issue to be brought to the attention of the commission are the Alaskan boundary, the seal fisheries, tariff reciprocity and the coast fisheries.

Active and a second second

Immediately after the prorogation of the Dominion Parliament on Monday, Her Excellency the Countess of Aberdeen, was presented with a beautiful token of regard from the Senate and Commons, in the shape of an historical dinner service, decorated by sixteen selected exhibitors of 43-9 Woman's Art Association from Toronto, Hamilton, St Catharines, Simcoe, Galt, Montreal, Yarmouth and Halifax. The service consisted of seventeen dozen pieces, as follows : Two dozen soup plates, two dozen meat plates, decorated with historical landscape views; two dozen game plates, game birds of Canada; two dozen fish plates, fish, shells and seaweed of Canada ; two dozen salad plates, ferns of Canada ; two dozen dessert plates, fruit and fruit blossoms ; two dozen cheese plates, song birds; three dozen after-dinner coffees, wild flowers of Canada. The presentation was accompanied by the reading of an address in which it was stated that the interesting historical dinner service, the work of the Woman's Art Association of Canada, seems to be most suitable for such presentation, both because it is purely Canadian and because it is the result of the efforts of Canadian women.

Orders for seventy seven locomotives have just been received from the Russian Government by the Baldwin Locomotive Works. In addition to these the Baldwin people have booked orders since April 1st for ten for New Zealand, six for Spain, five for Egypt, two for Argentina and one for Mexico. The Richmond works last week received an order for seventeen locomotives for Japan, making a total of ninety-four export orders in one week. Other orders received by American builders from foreign countries since April 1st bring the grand total up to 172, and still further contracts are pending for delivery of locomotives in Russia and Mexico. Another instance of the triumph of "intelligent labor highly paid." It is the American policy which has made possible this successful invasion of foreign markets with American productions.-American Economist.

Protection and only protection has made it possible for American locomotive manufacturers to successfully compete for this foreign trade against the older and longer established concerns of Europe. Under our present system when, oh, when will Canada be able to enjoy a part of this great demand?

An epoch in the history of Japanese ship building has just been marked by the launching of the Hitachi, a large steel steamer, at the yard of the Mitsubishi Dock Yard Co. The vessel, which has been built for use on the Yokohama-London line of the Japan Mail Steamship Co., is 462 feet in length, forty-nine feet two inches beam, and thirty-three feet six inches depth, with an average draft of twenty-five feet. She has a displacement of 11,600 tons; gross tonnage of 6,150 tons, and freight capacity of 7,150 tons. The engines are twin triple expansion, with four boilers of 3,500 indicated horse power. The vessel has a steel hull with three decks and is expected to attain a speed of fourteen knots. The government mail subsidy requires the company to have the vessel constructed with a view to armored cruiser service if needed. The Mitsubishi company engaged the best talent obtainable for the construction of this vessel, the supervision of work being entrusted to men of long experience in English and American yards. The cost of the vessel was also in excess of what the vessel might be purchased for in any of the leading ship building countries, but the object was to stimulate Japanese ship building, and the extra cost was paid on that account. As compared with Canada, Japan is a new country,

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yet under the policy now provailing here, it will be many long years before any such ship will be built in this country. It should be in Canada as in Japan where the object of the policy is to develop and build up important manufacturing industries.

A few months ago, when it became evident that Canada would like to enter into closer commercial relations with Great Britain, offering the mother country 25 per cent. reduction in tariff duties, England, quite responsive, took steps to denounce certain treaties with Germany and Belgium which, while they lasted, would have prevented the culmination of the British Zollverein scheme. The denounced German treaty expires on July 30th of this year. A bill has now been laid before the Reichstag at Berlin, authorizing the Federal Council or Bundesrath to extend the most-favored-nation treatment to imports from Great Britain and her colonies for one year or until July 30, 1899. This, it is explained, is intended to serve as a provisional arrangement, pending the conclusion of a regular treaty. It is the intention of the German Government when this bill is passed to make the Dominion of Canada pay higher duties on her imports to Germany unless Germany gets the same favors as England gets on the Canadian customs frontier. Of course Germany will get and she expects to get nothing of the kind. The treaty was denounced for a purpose and it will expire for a purpose, and German threats will turn neither Great Britain nor her colony aside. Whether Germany will attempt to put pressure on the English government in respect to exports to Germany from England and other parts of the Empire, barring Canada, remains to be seen. Such a tariff war would scarcely be successful and it would be more costly to Germany than to anybody else, for which reason we may expect that she will have the shrewdness and good sense to avoid bringing the commercial relations of the two countries to such an unfortunate issue .- The Manufacturer, Philadelphia.

The manufacture of machines for the production of acetylene gas from calcium carbide, a Canadian invention, has already assumed gratifying proportions in Canada, and is receiving much attention in other countries. The Council of the Imperial Institute, London, Eng., have authorized the holding of an Exhibition of Acetylene Gas Apparatus in the Grounds of the Institute at an early date, and in order to ensure that no apparatus should be admitted to the Exhibition unless it fulfil the requisite conditions of safety, the Council of the Society of Arts have appointed a Committee to decide upon those conditions, and to lay down rules for the admission of apparatus. The Imperial Orders in Council regulating the use of calcium carbide and of acetylene gas (when the gas is under high pressures or liquefied) do not legislate for apparatus in which gas is generated from the carbide at low initial pressure, and of these, says an English contemporary, there is now an immense variety before the public. Whilst the majority of such generators may be, and doubtless are, absolutely safe with ordinary precautions, yet some of them may, from want of adequate scientific knowledge of the properties of calcium carbide and acetylene gas, be so constructed as to constitute a very serious danger in the hands of unskilled labor, and it is chiefly where unskilled labor is employed that the new illuminant now meets with the largest

Regarding the cost of the article, our contemporary demand. says that acotylene manufactured from calcium carbido at £16 per ton would be cheaper per unit of light than oil-gas, although the cost would be 0.103d. per burner hour for oilgas against 0.396d. per burner hour for acetylene. A light of 40 candles is not, however, required in a single compartment, which in fact would, even with the tendency to demand better lighting, be brilliantly lit with 20 candles. To obtain this lighting with acetylene would require a consumption of 0.585 cubic foot, costing 0.231d. per burner hour, whilst it can be obtained with oil-gas burnt in a regenerative lamp burning 1.464 cubic foot per hour for 0.1507d. per hour. Assuming that two reservoirs, each of ten cubic feet capacity, were placed under a five compartment carriage, and charged to 150lbs. per square inch above atmospheric pressure, the reservoirs would require re-charging in 47.8 hours if acetylene were used as against 19.2 hours with oil-gas.

The American consul at Winnipeg, Manitoba, transmits to the State Department some information that will no doubt prove interesting, if not valuable, to contractors and dealers in railroad materials in this country. It is the opinion of the consul, based on present indications, that there will be great activity in railroad building in Manitoba this season, for during the recent session of the Manitoba legislative assembly several important measures were enacted, designed to encourage railroad building, and as a result some 500 miles of road will be constructed in the not distant future. One line to which aid was extended is the Manitoba & Southeastern, running from the city of Winnipeg to the Lake of the Woods, or to the mouth of the Rainy River. This line is located to a point eighty miles southeast of Winnipeg and will be completed that far this summer. From that point it will either cross the Lake of the Woods at the Narrows or pass around the south end of the lake to the mouth of the Rainy River, as may be shown to be most feasible by surveys. If the latter course is adopted the consul says the road will run thirty-five or forty miles through the State of Minnesota. This road is designed to be part of a line connecting Winnipeg with the waters of Lake Superior, and when completed to the Rainy River will, in connection with roads now in operation, lack about sixty miles of making another entire rail route to the lakes. Another line of road to be completed runs from the town of Sifton, on the line of the Lake Manitoba Railway & Canal Company's road, generally known as the Lake Dauphin road, north to the Saskatchewan River, a distance of about 250 miles, being another link added to the long contemplated Hudson Bay road, which will undoubtedly be completed in the near future. Both these lines of roads run through good agricultural lands for the greater part of their course and they will also open up large bodies of timber and mineral lands of immense value. The province of Manitoba guarantees the payment of principal and interest on the first mortgage bonds of both lines to the amount of \$8,000 per mile and exempts the railroad properties from taxation for a period of thirty years. This is in addition to liberal land grants and subsidies heretofore granted by the Dominion government.

The expenditures proposed so far by the Dominion Government for the fiscal year, 1898-99, are the following :

Rogulan active to -		
Regular estimates. Supplementaries. Further supplementaries		
o uurciar sataries, andinonal	68,509 27,000	
A ayaule to manifoha	-1,000	
For schools. On account of Parliament buildings	300,000 475,000	
or account of a arnamone buildings	475,000	

\$48,841,447

This is twelve million dollars more than was spent in the year 1895.96, the figures for that year being \$36,949,000.

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# CANADIAN MANUFACTURERS' ASSOCIATION.



WHAT THE ASSOCIATION ADVOCATES.

The following resolutions were passed at the Twenty-Third Annual Meeting of the Canadian Manufacturers' Association held in Toronto, April 12, 1898.

THE NATIONAL POLICY. THE NATIONAL POLICY. THE NATIONAL POLICY. Whereas, from its geographical position and commercial environments the prosperity of the Dominion of Canada depends largely upon the main tenance of a fiscal policy which will foster our agricultural, mining, com-mercial and industrial enterprises, and which will make the interests of Canadians paramount to those of foreigners, by preventing this from being made a slaughter market for the surplus products of foreign countries; and Whoreas, the observance of such policy gives confidence and stability to capital and enables our artisans to obtain wages far in excess of those which provall in European countries, and which keeps them in the country by the payment of wages which enable them to live in confort; and which provides a hone market for many lines of agricultural products, which encounty by the ported; a policy which also attracts foreign capital and inaugurates indus-trices by inducing those who desire to participate in the benefits of our market to manufacture their produces here; a policy which encourges and develops inter-provincial trade, and produces amongst the people a feeling of security, of national pride, and commercial and muturiar independence, highly conducive to the welfare of the whole people, without which we can never attain to theraeme of national prosperity; and Whereas, the revival of the mining industry in this country has given an impetus, not only to agricultural, but to many other industrial enterprises, as uearly everything used or consumed in the mining regions has to be brought from outside sources;

Therefore, buit resolved, that this Association desire to again place itself upon record, that in its opinion the prosperity of this country imperatively demands the continuance of a fixed and definite policy of protection, from the general principle of which there shall be no deviation, in order that our agricultural, mining, commercial and other industrial enterprises may par-ticipate in its general prosperity.

ticipate in it's general prosperity. PREFERENTIAL TRADE. While heartily commending the Dominion Government for their desire to comme the scope of the Preferential Tariff exclusively to the Mother Coun-try and the British Colonies, this Association is strongly of the opinion. 1. That our Preferential Tariff should not be extended to any colony, un less such colony accords to us a tariff preference in their market, equi alent to the discrimination allowed by us in its favor. 2. Where our minimum Preferential Tariff is applied, the minimum rate of duty thereander should be high enough to protect existing Canadian industries from the competition of countries having lower priced labor, cheaper raw materials and capital, and whose long established industries give them great advantages over those of Canada. 3. That although the minimum Preferential Tariff has already been ex-tended to Great Britain without any corresponding preference to Canada, we would strongly impress upon the Dominion Government the necessity of obtaining reciprocal concessions from the Mother Country as speedily as possible. nossible.

#### CANADA'S COMMERCIAL AGENTS.

Following is the correct official list of Canada's Commercial Agents in Great Britain, British Possessions and foreign countries.

Edgar Tripp, Port of Spain, Trinidad, agent for Trinidad and Tobago. C. E. Sontum, Christiania, Norway, agent for Sweden and Denmark. H.	<ul> <li>(ive to trade matters, and their services are available in furthering the rests of Canadian traders.</li> <li>G. Colmer, 17 Victoria Street. London, S.W., England.</li> <li>Homas Moffat, 16 Church Street; Cape Town, South Africa.</li> <li>H. Mitchell, 15 Water Street, Liverpool, England.</li> <li>M. Murray, 10 SL Enoch Square, Glasgow, Scotland.</li> <li>arricon Watson, Curator Imperial Institute, London, England.</li> </ul>
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#### TARIFF CHANGES.

Hon. Mr. Fielding, Minister of Finance, last week made a proposal in the House with reference to the duty on raw sugar, which is another step in the direction of Imperial preferential trade. In the tariff passed on April 6th, last, the benefit of the preferential duty was extended to the British West Indies and Bermuda. It has been claimed that one effect of that was to produce unequal conditions of the sugar trade by giving an advantage to the sugar interests on the Atlantic coast which did not extend to the sugar interest on the Pacific coast, where they draw their supplies of sugar from sections of the empire not brought within the scope of the preferential tariff in April last. It was suggested to extend the preference to the British possessions of Queensland, Fiji and perhaps Mauritius. He proposed to deal with raw sugar as described in the tariff in a different way, and instead of admitting these products generally under the preferential tariff, to provide that raw sugar from all portions of the British Empire shal

be admitted under the terms of the preferential tariff. That would meet the complaints of those interested in trade on the Pacific coast, and he was inclined to think might lead to the encouragement of trade between Canada and the Australian colony. He therefore proposed to insert the following resolution in the tariff :-

"Raw sugar, including the sugar described in item 436 of schedule A, may when imported direct from any British colony or possession, he entered for duty or taken out of warehouse for consumption in Canada at the reduced duty provided in the British preferential tariff." The sugar referred to in this resolution is described in schedule "A" grades or standards testing "sugar n.e.s. not above No. 16 Dutch standard in color, sugar drainings or pumpings drained in transit, Melado or concentrated Melado, tank bottoms and sugar concrete testing not more than seventy-five degrees by the polariscope." The duty on this raw sugar is forty cents per 100 pounds and for each additional degree 11 cents per 100 pounds. Such sugar coming now direct from any portion of the British Empire will be dutiable at the above rates, less twenty-five per cent.

Schedule "D" in the existing tariff was amended by striking out the words "the growth, produce or manufacture of the United Kingdom or of any British colony or possession mentioned in schedule 'D,'" and inserting the words "on articles entitled to the benefit of this preferential tariff." Another resolution provided that the tariff shall be treated as coming into force April 6, 1898.

Mr. Fielding also moved an amendment to the tariff to rectify an error made in printing the tariff act. Rubber belting was placed by the House in the list of rubber goods with a duty of twenty-five per cent. In the act the words "rubber belting" were accidently omitted, so that this article goes in with other belting on which there is a duty of only twenty per cent. He therefore moved that it be restored to the list so that the duty will henceforth be twenty-five per cent.

# WHITE COTTON GOODS AND THE TARIFF.

As heretofore mentioned in these pages, a deputation of manufacturers of white cotton goods waited upon Hon. Mr. Fielding, Minister of Finance, asking relief from an incongruous operation of the tariff. Discussing the event The Mail and Empire shows that the raw material used by the manufac. turers of shirts, collars, and cuffs consists of cotton fabrics. On white cotton fabrics the duty was allowed to remain at the former rate of twenty-five per cent., but the duty on printed, dyed, or coloured cotton fabrics was increased from thirty to thirty-five per cent. That is, the manufacturer of shirts was taxed five per cent. more on half the material he consumed. On shirts costing more than \$3 per dozen he had formerly the protection of a specific duty of \$1 per dozen, and an ad valorem duty of twenty-five per cent. On other shirts, that is, on shirts costing less than \$3 per dozen, the duty was a straight ad valorem rate of thirty-five per cent. It is easy to see, of course, that the number of shirts put on the market at less than \$3 per dozen would be insignificant, and that for practically all shirts imported the duty would be \$1 per dozen and twenty-five per cent. ad valorem. For this arrangement Mr. Fielding substituted a uniform rate of thirty-five per cent. He struck off the specific duty of \$1 per dozen, and added 10 per cent. ad valorem. That change meant a reduction amounting on the average to probably sixty cents a dozen, or about 121 per cent. ad valorem. With the duty on the one hand increased on more than half his raw material by five per cent. ad valorem, and with the duty on his manufactured product diminished 121 per cent. ad valorem on the other, the shirt manufacturer was hemmed in so closely that he had to resort to every economy in order to continue in business. To meet the foreign competition which the change in the duties has made such an opening for, there is serious danger that wages may have to be cut. We most earnestly hope not, and that the inequality between the duty on the raw material and that on the product may not give excuse in any case for sweating. The business of making collars and cuffs is affected in the same way as that of making shirts, the rate on cuffs being changed from four cents per pair and twenty-five per cent. to an ad valorem rate of thirty-five per cent., and that on collars from twenty-four cents per dozen and twenty-five per cent. to a like ad valorem rate. The industry engaged in the manufacture of shirts, collars, and cuffs is one of very great magnitude, more than \$1,500,000 being paid out every year in wages for the making of a product valued at \$2,500,000. To the appeal made in Parliament in behalf of the operatives in this industry Mr. Fielding turned a deaf car, refusing to act on any suggestion to redress the discrepancy between the duty on the material and that on the product.

In another page will be found a letter from an esteemed correspondent who is one of the most successful manufacturers in Canada. It has reference to a device invented by him, and which, as he shows most completely and effectively, accomplishes the object for which it was intended. We do not understand that he has applied for a patent for his invention, but in our opinion the exclusive right to manufacture in Canada, United States, Great Britain and all other countries where wide awake men are up betimes and hustling for the almighty dollar, would be worth a modest fortune. Neither do we understand that our correspondent intends embarking in the business himself, but this is probably because he already has a good thing in hand by which he is accumulating wealth. But, as he says, there is no doubt money in the business which has never, to our knowledge, been entered into either in Canada or elsewhere.

A decrease in the importation of manufactures into the United States will probably prove to be one of the striking features of our foreign commerce during the fiscal year about to end. There has been, as already shown in the reports of the Bureau of Statistics, a very great increase in our exportations, the manufacturing, as well as other industries, having shared in this growth of our foreign commerce. It now appears that the year's record of importations of manufactures will be quite as striking in the reduction which it will show. That there has been a general reduction in imports during the fiscal year is indicated by the recent statement of the Bureau of Statistics, which shows a falling off of nearly \$90,060,000 in the ten months ending April 30, 1898. The chief reduction, however, is in manufactured articles.—New York Financial

Some days ago the Government were requested to rectify a elerical error in the tariff, in consequence of which a duty of twenty per cent. Instead of twenty-five per cent. was being collected upon boots and shoes, rubber belting, rubber cement, etc. This, it was claimed, was causing considerable loss to an important industry. The matter was brought to the attention of the Minister of Customs last year, and again in April last, when  $M_{\ell}$ . Fielding promised that the Government would correct the matter, which has been done, as explained in another page.

The prospectus of the new Manchester-Canadian freight line proves that the company is an extremely powerful one. Its capital will be \$5,000,000, and it will operate five steamers sailing direct from Montreal in summer and St. John N.B., in winter to Manchester by way of the canal. Three of the ships now in process of construction for the line have a carrying capacity of \$,500 tons. A probable result of the direct line will be a great increase in our share of the food supply of Lancashire, perhaps the most thickly populated portion of Great Britain outside of the metropolitan district. In estimating the probable increase of trade following upon the establishment of the direct line it must not be supposed that Manchester will receive by the canal route only the supplies that now go to Liverpool from the St. Lawrence. Up till the present time Manchester and the great consuming population of which Manchester is the centre has had no more interest in the consumption of Canadian wheat and cattle than of American. But with ships bringing Canadian food stuffs up its beloved canal, while American food stuffs are still landed at Liverpool, Manchester will eat its fill of Cana-dian products, knowing that the canal will benefit. The Syren, an English shipping paper that has fought the fast mail line tooth and nail, probably in the interest of existing companies, continues its attacks, and is now trying to prevent the public from taking shares in the company formed by Peterson, Tate & Co. With well-known men like Lord Tweedmouth and Sir Bache Cunard on the directorate, the Canadian Royal Mail Line should, despite these attacks, have some standing in the money market. Contracts for the four Canadian ocean flyers have, it is said, been awarded to a Tyne firm of shipbuilders.-Toronto Globe,

Mr. C. H. Rust, City Engineer of Toronto, has been considering the matter of imposing charges on manufacturers and others occupying buildings in the city for areas under the sidewalks, and he is submitting to the Committee on Works of the City Council a schedule of charges which he recommends shall be embodied in the tax bills of the current year. Mr. Rust states that he has made a complete record of all the areas and openings in the sidewalks in the city, which he has for the purpose, divided into three districts, with the following result: In district A there are 85,807 square feet of areas with 89 coal chutes, district B, 32,807 feet of areas with 249 chutes, and in district C are 14,754 feet of areas and 432 coal chutes; and he recommends that the following rentals be charged in the different districts:—District A, for areas four cents per square foot per annum; district B, three cents, and district C, two cents; and for every coal chute fifty cents per annum. The above charges, it is estimated, would produce a revenue to the city of a little over \$5,000 per annum.

The British market requires each year an importation of more than 500,000,000 pounds of bacon, which amount comes almost entirely from the United States, Denmark and Canada. While the part of this entire amount drawn from the United States reaches each year about 300,000,000 pounds, the quantity is gradually decreasing. The "section of foreign markets" of the Department of Agriculture attributes this decline largely to the fact that the United States bacon is chiefly corn fed bacon, and is therefore too fat to suit the taste of the British consumers. By paying attention to this preference on the part of the English customers the Danish and Canadian exporters are making serious inroads on a market which we have heretofore controlled. The Danish and Canadian bacon, moreover, being more to the liking of the Englishmen can secure a higher price on the British markets than the United States bacon, and the loss of even a cent on each pound of the enormous quantity makes a net loss which is very considerable.

Mr. Anderson, Canadian late special trade commissioner to Japan, in his report to the Department of Trade and Commerce, recently published, speaking of the possible expansion of our flour trade with Japan says :—" The quantity of flour imported during: 1896 was upwards of 150,000 barrels, and nearly all from the State of California and the Territories of Oregon and Washington. It is shipped in forty-nine-pound bags, four being equal to a barrel. There are certain brands which buyers favor on account of being well-known. The increase during the first six month of 1897 has been enormous, and probably the imports this year will reach 225,000 barrels. There is no reason why Canadian millers should not secure a fair share of the flour trade, unless it be that the long inland railway freight may in some measure handicap them. To properly introduce it I would advise the distribution of samples in half-pound bags to actual consumers, as well as advertising in both the English and Japanese press. The San Francisco market should be a good guide as to prices that can be obtained."

The report of Mr. Anderson, Canadian Trade Commissioner to Japan, which has just been published by the Department of Trade and Commerce at Ottawa, deals in detail with the articles that there is a possibility of selling to Japan, and with those Canada might or does purchase. Of bicycles in Japan, Mr. Anderson says: "British and United States manufacturers are represented, and the sales are quite large, with the sure prospect of a large growth. Japan is certainly an inviting field for our makers, as bicycles are becoming very popular among the Japanese. Wheels to sell at 100 yen, equal to \$50 gold, would find a ready sale. High grade wheels to retail at 150 to 175 yen would also sell freely, as better qualities are much appreciated by the well to do Japanese as well as by foreigners. Ail bicycles should be

light, strong, and handsomely decorated. The Japanese being of small stature the frames would require to be 22 to 23 inches. For foreigners the ordinary sizes of frames in use in Canada would be suitable. There is absolutely no demand for ladies' wheel, except a few for the use of foreigners. The Japanese ladies have not yet adopted the European costume, and it would be impossible for them to ride a wheel wearing their native style of dress. The bicycles manufactured in Japan are considered inferior.

United States Consul Douzelmann, at Prague, Bohemia, writing to the Department of State, speaking of farming machines and implements in that country, says: "Bohemia, I feel warranted in saying, presents a very good field for mowers, binders, seeders, thrashing machines, hay stackers, etc. While at the first glance, a person unacquainted with the ways of the people would believe it would be cheaper to employ laborers here to do all such work, I have it from very good authority that it is becoming absolutely necessary for those engaged in farming on a large scale (of whom there are a great many) to employ all kinds of machinery, because of the scarcity of labor in country districts, the men receiving better pay in the cities.

The Grand Trunk is erecting a large iron bridge in this town, which is being done entirely by American workmen from Harrisburg, Pa., where the bridge is manufactured. We have no special fault to find with the G.T.R. for buying the bridge in the United States, notwithstanding the fact that we have a number of good bridge building firms in this country; but when the workmen are brought from the other side we think it is time to register a kick. The alien labor law is enforced against Canadian workmen, but our very considerate liberal government at Ottawa closes its eyes to all infractions of the law by the United States.—Dundas, Ont., Star



Our Rock-Faced Stone and Pressed Brick Steel Sidings

are an admirable, economical, and durable covering for the sides of any building—they can hardly be distinguished from the real stone and brick.

Write us for information-all our fire-proof building materials give famous satisfaction.

METALLIC ROOFING CO., Limited 1181 King Street West, Teronto.

United States Consul Jackson writes to his Government as follows, from the city of Cognac, France:-I have to report that several cities in this consular district, which at present have no effective fire department, anticipate purchasing steam fire engines. Cognac already has a fund for this purpose. American manufacturers should address M. E. Jouard, No. 1 rue Louise de Savoie, Cognac, Charente, France.

The opportunities for increasing the bicycle trade with Russia was never better than at present. The Government is modifying many rules and regulations which made the importation of bicycles into Russia difficult. Recently ladies have been allowed to ride through the streets, and this, it is stated, has increased the sale of ladies' wheels considerably in St. Petersburg. The population is discontented with the home-made machines for the reason that the manufacturers cannot turn out a good article either in looks or weight. The makers at present enjoying the best reputations are German and English. American wheels have not yet ob-

United States Consul General J. G. Stowe, at Cape Town, South Africa, writes as follows to his government :--- "I am requested to present to the manufacturers and producers of America the advantages of exhibiting their productions at the exhibition to be held at Grahamstown, Africa, from December 15, 1898, to January 21, 1899. It will be known as the South African Industrial and Art Exhibition, and is guaranteed by the governors of Cape Colony, South African Republic, Orange Free State and Natal, and the high com-missioners of Rhodesia and Basutoland. Over \$100,000 have been subscribed, and exhibits from all parts of the world have been asked. There are five classifications of exhibits,

viz.: (a) Raw materials; (b) manufactures; (c) mining and machinery; (d) natural history and science; (e) arts. To the manufacturers of agricultural implements and vehicles, and mining, cotton, woolen, electrical, wood working, brickmaking, sugar, and all other kinds of machinery, this exhibition will be invaluable. Are any Canadian manufacturers proposing to make exhibits at Grahamstown ?

The Lake of the Woods Milling Company and several other concerns are making great efforts to introduce their flour into the West India Islands, and so far have mot with gratifying success. A communication has been received by the Montreal Board of Trade from Rust, Trowbridge & Co., of Port of Spain, Trinidad, pointing out that the war has led to enhanced prices of breadstuffs, and merchants have been led to look to Canada for their supply.

There is no lack of freight for steamers to the West Indies from this port at present, said Mr. Geo. Hensley, of Pickford & Black, to a reporter of The Halifax Maritime Merchant. We have a boat sailing for Jamaica on the 10th, and another on the 15th, each of which will have quite as much as she can carry. We will also have a boat for the Windward and Leeward Islands and Demerara, on the 16th and she also has a full cargo. The manifest includes large quantities of fish, potatoes, flour, pork, butter, cheese, and a small amount of oats; all of which are the products of Canada. The latest advices that we have had from Trinidad and Barbadoes, state that the best grades of Canadian flour exported are selling equally as well in that market as similar grades from the United States, and that values are keeping pace with the advances recently made, both here and at New York.



...Catalogue Free.

## CAPTAINS OF INDUSTRY.

The following itoms of information, which are classified under the title #Captains of industry," relate to matters that are of special interest to every advertisor n these pages, and to every concern in Canada interested in any manufacturing Industry whatever, this interest extending to supply houses also.

If a now manufacturing onterprise of any kind is being started, or an electric lighting plant instituted, or an electric railroad, or a telephone, or a telegraph line lighting plant instituted, or an electric rairoad, or a telephone, or a telephone, in a telephone, include to the experiation of maple clocks to is being constructed; or a saw mill, a woolen, cotton, or knitting mill; or if any England. Very large quantities of these industrial establishment has been destroyed by fire with a probability of its being blocks are experted from Ontario via St. rebuilt, our friends should understand that possibly there may be something in John, N.B., in winter, and it is thought the the event for them. Do you catch on to the idea?

The starting of any such concern means a domand for some sort of machines, machinery, or supplies, such as steam ongines and bollors, shafting, pulloys, beit. ing, lubricants, machinery supplies, wood or iron working machinery, ventilating and drying apparatus; pumps, valves, packing, dynamos, motors, wire, are and incandescont lamps, and an infinito variety of electrical supplies, chemicals, acids. alkalies, etc. It is well worth the while of every reader of the Canadian Manufacturor to closely inspect all items under the head of Captains of Industry.

The new flour mill being crected at Souris, Man., by Messrs. McCulloch & Heriot is rapidly nearing completion.

Messrs. W. H. Code and S. Gable were recently in Dauphin, Man., with a view to establishing a flour mill there.

Messrs. Reisterer & Co., Nelson, B.C., will double the capacity of their brewery plant, including the installation of a new ammonia cooler, etc.

Messrs. Gordon and Ironside will erect a large cold storage warehouse at Fort William, Ont.

Messrs. J. I. Flatt, A. Ross and Elton Smith are endeavoring to induce the city council of Hamilton. Ont., to build a grain elevator at that place.

The Alberta Railway & Coal Co., of Lethbridge, N.W.T., has ordered two more Mumford Improved Boilers of 150 h.p. each from the Robb Engineering Co., Amherst, N.S.

Messrs. Sykes & Ainley, Glen Williams, Ont., have purchased the water power at that place formerly used in connection with the Joseph Williams Hosiery Co.

The Mumford patent shingle machine made by the Robb Engineering Co., of Amherst, N.S., is now in use in a number of provincial mills and is giving immense satisfaction.

H. E. Casslens, of Winnipeg, Man., sent a sample of emery from northeastern Manitola, to a German emery firm and has re-ceived very favorable replies as to its quality. The deposits extend over an area of twentyfive square miles.

The Hugman Window Shade Co., 120 William St., Montrcal, have sent us a circular having reference to their business. They inform us that their factory is new and modern in all its equipments, with the latest facilities for turning out superior goods at short notice.

D. La Liberte's foundry and machine shop at St. John's, Que., was badly gutted by fire May 28th, loss about \$6,000.

The shovel shop of the D. F. Jones Manufacturing Company, Gananoque, Ont., suf-fered disastrously by fire June 7th under curious circumstances. A twelve-ton fly-wheel on the large roller broke, and one large piece struck the dome of the boiler, and another a petroleum tank, sending the oil all directions, which brought fire from the furnace.

T. D. Wardlaw, of Dundas, Ont., has for some months past been experimenting in acetyleno lighting in his knitting factory. Ho now claims to have perfected a plant that, while perfectly safe and very economical, gives a light far superior to any plant of the kind heretofore used. The choir gallery in the Presbyterian church has been lighted by A ten stamp mill is being crected at Chezzetcook, N.S., by John H. Anderson, on the site of his old mill which was destroy-ed by fire a few years ago. The new mill

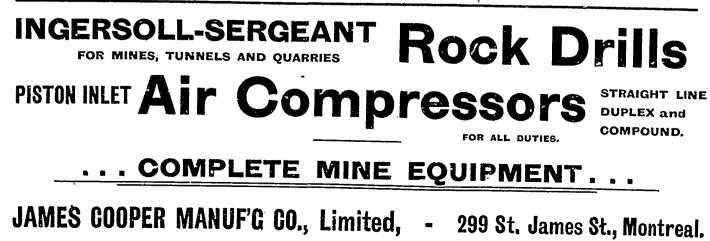
Messrs. S. F. Eagle and John Crerar were at Fort William, Ont., a few days ago, negotiating for the establishment of a blast furnace there. Fort William has a standing offer of a \$50,000 bonus for any such enterprise.

Mitchell Bros., of Berkeley, Ont., and Liverpool, Eng., are in correspondence with the Woodstock, N.B., Board of Trade relative to the exportation of maple blocks to opportunity is now favorable for the opening up of market for the native hardwoods of New Brunswick. The Woodstock board has directed its secretary to continue the correspondence with that end in view.

The total output from the different collieries of the Dominion Coal Co. for April is 23,597 tons. The output of coal from the different mines throughout Cape Breton, it Messrs. Patineaud Bros. will establish a sawmillat Dufresne station on the Northern Pacific Railway, near La Salle, Man. United States from the Dominion Coal Co. has been stopped. - North Sydney Herald.

A telegram from Thamesville, Ont., states that the largest flow of oil since the Petrolea oil discovery had been struck by Messra. Trotter & McHugh of Chatham, while boring on the Herbert farm, about two miles from Thamesville. The well is pumping over 1,000 barrels a day, and is one of the largest wells ever struck. It is one of a number of such wells that have been lately discovered in the vicinity of Thamesville, and promises to make this one of the richest oil districts in America. The discovery has caused con-siderable excitement, and will probably lead to greater activity in oil speculation in this neighborhood. There are at present large number of rigs sinking wells which are meet-ing with good results.

The Pioneer has received this week an excellent lithograph of the E. B. Eddy Company works at Hull, and coming so close on the heels of our remarks last week anent their fine calendar, the gift smacks of a challenge to the correctness of our statement that the Sault has the largest and best pulp mills in the world. If so, we must reiterate the statement that we have watched Mr. Eddy risc from a matchmaker to his present high position as the leading Canadian manu-facturer, and we share, in degree, pride at his splendid abilities and success. But, in point of extensive pulp works he is not in the procession with the Sault mills.—Sault Ste. Marie Pioneer.



The Kemp Manufacturing Company, To-ronto, have written to the city authorities that they are desirous of making further additions to their factory premises, but have additions to their factory premises, but have not any vacant space on the block which they now occupy. They require the extra space in a position where they can get a siding from the railway track into the pro-posed extension. In order to make the extension, they want the city to grant them | Elevator Co., one for the Richelieu & On-the use of the property at the end of Bell tario Navigation Co., and two for the Cann-street, stretching east to the roadway on the Don flats, and thence northerly towards | Elevator Co. Those for the Prescott | As spent fifteen years in travelling in foreign Gerrard street bridge, a portion of which | length over all, 160 feet 10 inches length of they now use. This will be the second ex-the Richelieu & Ontario steamer-a massen- | clea having received the world wedge st the extension, they want the city to grant them short period, the business having increased by rapid strides until it is now one of the

The Grand Trunk Railway Co. have laid about forty miles of new track between Nagara Falls and Hamilton, Ont., and there are still eighty miles to be laid in the southern division. Considerable additions will be made to the siding room on the divis-10n, and at some of the stations two sidings will be provided where only one now exists. A new double track is under construction just west of St. Catharines. About thirty of the latest style of passenger coaches have been recently commenced in the car shops of the company, half of which will be used on the middle division.

Mr. Thomas Bengough, president of the Canadian Motor Syndicate, has received notification from the Postmaster-General that the syndicate's tender had been accepted that the syndicate's tender had been accepted fc . daily mail service between the Toronto post office and the Don post office, calling at Todmorden and Doncaster. The Don post office is about eight miles from the city. The service will begin on Dominion Day. It is the intention to put a motor mail van on this service. This will be the first case in Amer-

ica of a motor van being utilized for Governmont mail service. In England a van is running between London and Redditch, but the Canadians are ahead of the Americans and the rest of the world in this matter.

In addition to the order for a freight ger boat - has dimensions of 279 feet 4 inches stern wheelers, 162 feet 6 ) ches over all, 140 feet 6 inches keel, 30 eet beam and 5 feet molded dopth, for th Klondike trade.

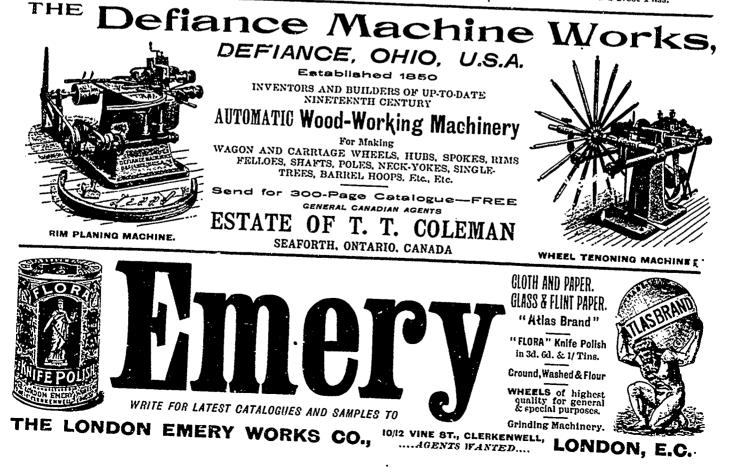
day, having almost doubled its output in the last year by the addition of more ma-chinery. The machinery is all specially made, of most approved type, and is con-stantly being added to. It is in charge of C. A. Moore, formerly of Brandon, Man., and some 20 or 25 men and boys are employed.

The whole of the sawmill plant of the Assiniboine Lumber Co., at Shell River, Man., was destroyed by fire a few days ago.

The Cushing Sulphite Fibre Co., St. John,

pany have now made satisfactory arrange-menta with the City of St. John as to water supply, and will be ready to proceed with the work of construction at an early day.

The Hamilton Times learns that Mr. R. In addition to the order for a freight steamer to replace the wrecked Rosedale, the Bertram Engine Works, of Toronto, has five N.Y. In his thirty-oight years residence vessels under way-two for the Prescott in Hamilton his extensive manufactures of Elevator Co., one for the Richelicu & On | sewing machines, lamps, etc., made his name also having received the gold medals at the by rapid strides until it is now one of the largest and most flourishing manufacturing concerns m Canada. The Grand Trunk Railway Co, have laid stern wheelers 162 for the Canadian Pacific Co. are the Grand Trunk Railway Co, have laid stern wheelers 162 for the Canadian Pacific Co. are the latter wheelers 162 for the Canadian Pacific Co. are the latter wheelers 162 for the Canadian Pacific Co. are the latter wheelers 162 for the Canadian Pacific Co. are the latter wheelers 162 for the Canadian Pacific Co. are the latter wheelers 163 for the Canadian Pacific Co. are the latter wheelers 163 for the Canadian Pacific Co. are the latter wheelers 163 for the Canadian Pacific Co. are the latter place he was knighted by the Emperor and received the Iron Cross for the superiority of his inventions. This is said The Winnipeg Commercial says that a side industry of the Rat Portage Lumber Com-pany is the sash and door factory, yet it has a capacity of 100 doors and 250 windows per day, having almost doubled its output in the last year by the addition of more ma-binory. The machinery is all superially lowing machines in Canada and should all superially according to be the only honor that was conferred upon factured in his line. Mr. Wanzer shupped very largely the goods of his manufacture to Africa, Australia, Tasmania, New Zealand, Mr. Wanzer was the first to manufacture according machinery is all superially lowing machines in Canada and also to light sewing machines in Canada, and also to light the city of Hamilton by electricity. His last and best efforts of invention have culminated in perfecting the Wanzer lamp and cooking appliances, of which he has sold in Canada and foreign countries over thirty thousand. This lamp has been shipped in great quantities abroad, especially to Africa, Jerusalem and the Philippine Islands. Mr.



M. McLaughlin, Buctouche, N. B., is building a large flour mill and wood-working factory, the boiler and engine for which are to be supplied by the Robb Engineering Co., of Amherst, N.S.

A Wilfley concentrator is being put in by the Truro Foundry Co. at the Richardson mine at Isaacs Harbor, N.S., which will be tried on two battories as a test and if successful, it is the intention of the company to instal a larger concentrating plant.

The Otto Higel Company, Toronto, manufacturers of piano actions, cases, etc., will erect a new factory to cost \$10,000.

The stove department of the McClary Mfg. Co., London, Ont., is exceedingly busy owing to an unusually heavy rush of orders. A shipment was made to Shanghai, China, a few days ago, and an order from a firm in Roumania was also received.

The village of Sutton, Que., will borrow \$13,000 to be used in the construction of a waterworks system.

The Luxfer Prism Company, Toronto, have established an agency in Winnipeg, Man.

The Dyson-Gibson spice factory, Winnipeg, Man., was damages by fire a few days

ago. The Rat Portage, Ont., Cold Storage and Produce Company, with a paid up capital of the lowest stage of the river, is increased to \$50,000, has applied for incorporation. It 17 feet. The lock will be built during the is the intention of the company to erect a three story block at Rat Portage.

Mr. Wm. McMoran, of Ste. Hyacinthe,

operate a woollen mill at Edmonton, N. W.T., 1899. About 1,200 workmen of all classes at a first cost of \$15,000 or \$20,000 pro- are now engaged on this work. This envided a suitable free site could be secured largement will cost the Government at least and exemption from taxation allowed for | \$2,000,000. twenty years. The city council of Edmonton have decided to submit a by-law to the ratepavers on this basis.

Mr. John E. Hamilton, United States Commercial Agent at Morrisburg, Ont., writes to his Government as follows. The Galops Canal extends from the town of Iroquois, (in the County of Dundas), to the head long, 3 to 4 m. wide, and 1 to  $1\frac{3}{2}$  in. thick; of the Galops Rapids, a distance of about 6 at 0 ash or maple squares, 1 to  $1\frac{1}{2}$  inches. miles. The work of enlargement now in progress is designed to raise the normal level of the existing canal 6 feet-that is, to the height of the lowest known stage of water in the St. Lawrence River, above the guard lock at the head of the Galops Rapids. prism of Canal will have a width of 80 feet on bottom, with slopes of 2 to 1 through-out, and a depth of 15 feet at lowest water. Mage A new lock will be built at Iroquois, about ont. 200 feet south of the present one. The masonry will be of the best class of limestone, peck faced, laid in coment, and in courses varying from 18 to 30 inches in height. The lock will have two chambers, the lower to be 530 feet in the clear and the upper 270 feet by 50 feet in width, with a lift of 114 feet at normal water, which, at season of 1898, and it is expected that onohalf of the prism will be completed so that are endeavoring to interest capitalists of vessels with a draft of 15 feet may pass Petrolia, Ont., in the establishment at that Que, has made a proposition to erect and through with the opening of navigation in town of a plough factory.

Messrs. W. Boulter & Sons, Picton, Ont., recently shipped 2,000 cases of canned corn to Dawson City.

The Northern Electric Company, Manchester, England, want estimates on sprace or other tumber, delivered in Liverpool, in one to five carload lots, from 18 to 24 inches

Lecuyer's butter factory at St. Dominique, Que., was destroyed by fire a few days ago. Loss \$1,500.

James Sanders, proprietor of the White-wood flour mills, has purchased the mill at The the neighboring town of Wapella, Assa.

Messrs. Gordon and Ironside will erect a largo cold storago warohouso at Fort William,

The London Machinery Supply Co., Lon-don, Ont., are crecting a plant for the London Soap Co. for the manufacture of glycer-

Several cargoes of lumber have been shipped from Parry Sound to the Stuart and Hartshorn Co., shade roller manufacturers of Muskegon, Mich.

Messrs. Malcolm Campbell of Ann Arbor, Mich., and James Higgins, of Sarnia, Ont.,

Requirements.



The St. Mary's, Ont., Creamery Company, shipped on Tuesday 16,800 pounds of butter to Great Britain.

A by-law to raise the sum of \$19,700 for purposes of electric light and waterworks will be voted upon by the catepayers of Listowel, Ont., on July 6th.

The sawmill of G. T. Cooke, Gay's River, N.S., was burned a few days ago.

The Pembroke Navigation Co., have given a contract to the Canadian General Electric Company to light the new steamer Victoria with the electric light, and also to furnish an electric search light.

The Brantford, Ont., Carriage Company The Forbes Manufacturing Company, of The McCormick Manufacturing Co, manu-has been granted exemption from taxation Hespeler, Ont., and the Waterloo Woollen facturers of biscuit, confectionery, etc., on \$20,000 for five years. double-bed Geamer presses, and one has their concern at Montreal. been ordered for the Brodie mills, Hespeler, Ont.

> S. Salmon & Co. aro building a sash and destroyed by fire June 10th. door factory at Avonmote, Ont.

J. W. Barnett and J. E. Green have purchased the machine shop at Brandon, Man., building a new 300-barrel formerly owned by George Thomas, and will place during the summer. operate it under the firm name of Barnett & Green.

Mr. Evenden, of Bournemouth, England, is located on Camp D'Or Island, near Sault Ste. Marie, Ont., preparatory to establishing there an extensive shingle mill.

For Heads of 3 Feet to 2000 Feet.

ADAPTED TO MILLING AND ALL POWER PURPOSES.

Recent tests at Holyoke enable as to guarantee: The bargest Power err obtained from a wheel of the same diameter. The highest speed erer ablained for the same power The highest mean efficiency ever obtained when running from half to full gate. We guarantee also: 1 runner of the greatest possible strength. 1 gate unequaled in quickness and case of opening and closing. Withe for pumphlet, stating your Hend.

JAMES LEFFEL & CO., Springfield, Ohio, U.S.A.

Joseph Bourque's planing mill and sash, door and blind factory at Hull, Que., was

McCulloch & Herriott, millers, of Souris, Man., have completed the arrangements for building a new 300-barrel flour mill at that

Dow & Curry, oatmeal millers of Pilot Mound, Man., are looking for an available site in Winnipeg, and will build a 200-barrel mill at that place.

The Manitoba Grain Co., of Winnipeg, Man., has awarded a contract for the remodelling of their mill at Calgary, N.W.T., and increase the capacity to 150 barrels of flour daily flour daily.

An agitation is on foot in Brantford, Ont. to establish a carpet factory to occupy the old wincey mill at that place.

The Columbia Flouring Mills Co., of En-derby and Vernon, B. C., have remodelled their mill at Vernon to the Plansifter system. The capacity of the mill was increased from fifty to seventy-five barrels of flour daily.

THE TORONTO PATENT AGENCY, (LINITED) .... Head Office, 79, 30, 81 Confederation Life Building. CAPIT.1L, \$25,000,00.

Patents obtained. Patents sold on commission. Provincial rights sold. Most actual sales. Best results. Quickest work. Honest Treatment. Oldest company. Reliable references. All patent business promptly attended to. Valuation and prospects of any patent furnished on application.

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CRUSHERS

ROCK

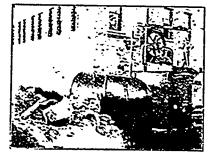
MILLS AND

**MILLSTONES.** 

FRENCH BUHR AND ESOPUS STONES. Send for STURTEVANT MILL CO.

BOSTON, MASS.

Ш П ker ter



55 inch Crocker Wheel Plant at the works of the Boston Rubber Co., St. Jerome, Que.

This Wheel is to be found in representative plants in nearly all parts of the Dominion. It possesses among its leading features

LARGE POWER FOR THE DIAMETER. SUPERIOR STRENGTH AND DURABILITY. CREAT EFFICIENCY AT ALL DECREES OF CATE OPENING.

Designs prepared for complete plants and the best development of power possible under the peculiar circumstances of head, etc., in any locality,

CIRCULARS AND PRICES ON APPLICATION.

The JENCKES MACHINE CO.,

**28 LANSDOWNE STREET** SHERBROOKE, QUE.

The baildings of the western abattoir, Montreal, were destroyed by fire a few days ago. Loss \$100,000.

A joint stock company is being organized in Learnington, Unt., to go into fruit canning on an extensive scale. It is proposed that all fruits shall be done up in glass bottles.

There are 250 flat cars, 200 box cars, and fifty coal cars in course of construction at the C.P.R. shops at Perth, Ont.

Fort William, Ont., offers a bonus of \$50,-000 for the establishment of an iron blast furnace in that town.

Messrs. Dick Ridout & Co., Toronto, have purchased the old woollen mill at Cobourg, Ont., and propose to turn it into a jute factory.

The Guelph Pavement Company have secured from the Corporation of the town of Berlin, Ont., the contract to lay \$18,000 worth of granolithic walks in that town.

Increasing business has compelled the proprietors of the Vulcan Iron Works, Win-nipeg, Man., to enlarge their premises. Large orders have recently been received from the city and outside points. A lot of coke frames have also been made for the Crow's Nest Coal Co., and iron work for coal cars for the same company. Another job recently turned out is a new boiler for Caldwell's mill at Rat Portage.

The latest industry in Sherbrooke, Que., is a soda water factory. J. II. Bryant is the proprietor.

The St. Mary's, Ont. creamery is now making 5,000 pounds of creamery butter per day. They have seven separating stations.

H. Marsh's sawmill, at Maple, Ont., was burned a few days ago.

Woodman & Miller, St. John, N.B., purpose building a large mill on the Madawaska river. They will put in shingle mill, planing mill, turning laths, etc.

The Hamilton Bridge Co, have the con tract to build the new C.P.R. bridge at Galt, Ont.

Several cars were destroyed by fire at the Quebec Central shops at Newring, Que., a few days ago. Loss about \$\$,000.

The Preston Furniture Co., Preston, Ont., have been awarded the contract for the office fittings for the Robinson, Little & Co's new warehouse at London, Ont.

The Ottawa Cord and Tassel Co. have established a factory in Ottawa to manufacture all kinds of cords, passementeric, etc.

McBuril's furniture factory at Moosomin, Man., was burned a few days ago. Loss about \$5,000.

Messrs. Wm. and J. G. Greey, Toronto, recently fitted up a mill at Moncton, N.B., with a complete outfit of machinery.

A conflagration at Rat Portage, Ont., a few days ago, destroyed, among other build-ings, the opera house and high school.

The boiler works of the Goldie & McCul-Inch Co., Galt, Ont., is exceptionally busy. On one day recently thoy received orders for five boilers, which, with the orders on hand, will make things lively for several weeks.

Mr. Savoye, of Brompton, Que., purposes to establish a box factory at Sherbrooke, Que., that will give employment to twentyfivo hands.

Tenders for the crection in Harriston, Ont, of one of the largest pork-packing establishments in Canada will be asked for in a few weeks. It is understood that the British\*market will be supplied with fresh beef from this same institution.

The Goldie and McCulloch Company, Galt, Ont., recently shapped a car-load of ma-chinery to the Windsor Furniture Co., Windsor, N.S., with which to equip their new factory.

The A. R. Williams Machinery Company, Toronto, recently shipped two carloads of machinery to the Yukon, being complete outfit for two sawmills. The order was given by the Canadian Yukon Lumber Company, of Montreal.

The Toronto Smelting Company's works at Madoc, Ont., will commence operations at once. Mineral wool will be manufactured as a by-product.

The Messrs. Reid, St. John, Newfoundland, will build a large pulp and paper mill at Grand Lake.

The capacity of the Dominion pulp mills at Chatham, N. B., is to be increased to thickness and the thirty tons per day.

James Thomson Hamilton, Halifax, N.S., and others, have been incorporated as the Nova Scotia Steamship Company, with a capital stock of \$50,000 to carry on the business indicated by the name.



The only Klondike Cances carried by the Express Companies. Bulklicads may be placed between the sec-tions when bolted together, making each sec tion a water light compartment. The only serviceable Portable Cance made. Write for catalogue and prices.

WALTER DEAN, Toronto, Can.

ROBT. A. ROSS, E.E., Consultant to Canadian Pacific Ry., and Boiler Inspection Co.

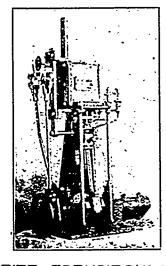
CONSULTING ENGINEER.

Specifications, plans, advice upon Steam and Electric Plants, Power transmission and dis-tribution. Special machines designed.

17 St. John Street, MONTREAL.

#### ALBERT BELL ENGINE WORKS

DUNNVILLE, ONT. Makers of YACHT ENGINES, 1 H.P. to 50 H.P. Safety Water Tube BOILERS **PROPELLER WHEELS Stationary Engines and Boilers** 



WRITE FORMCIRCULARS

FLEMING & CHAPIN, Gotton Warps Skeins 229-231 Church St., Yarns Cones PHILADELPHIA. Agents for HADLEY COMPANY.

GARBONIZER A neutral sub-stance, harmless to animal fibre or tissue, while it destroys burrs, etc., as efficiently as acid. It leaves the wool in fine condition. Manufactured by the Merrimac Chemical Co., <sup>13 PEARL ST.</sup>

BOILERS. YOU WANT THEM. WE MAKE THEM WRITE FOR PRICES BANNERMAN & FINDLATER,

Boiler Makers, OTTAWA, ONT.

#### WANTED

Mechanics. Engineers and Firemen to enclose 20 cents in stamps for Work. ing Model of Valvo for Steam Engines.

Address. H. F. LOWE, M.E., Palent Solicitor. Confederation Life Bldg., Toronto, Canada.

#### PATENT FOR SALE.

Canadian Patent No. 53178, relating to ap-paratus for rapidly discharging cargo from vessels, whereby the necessity of shoveling grain, coal, etc., in small quantities is avoided. Apply to

JOHN W. GLAHOLM, Nanaimo, E.C.

J. ALEX. CULVERWELL, **Electrical and Mechanical** BROKER. Special Agent Royal Victoria Life, 5 King Street West, - - TORONTO.

formerly.

Metal Ceilings are now being recognized as the most desirable covering for Private Houses, Club Rooms, Public Buildings, etc. They are very handsome in appearance, will not crack and fall off, and compare favorably in price with any good ceiling.

Fully illustrated catalogues sent on request. Estimates furnished on receipt of plans.

The Pedlar Metal Roofing Co. OSHAWA, ONT.

The Fraser Hat Cap and Fur Manufactur-ing Co. London, Ont., has been incorporated with a capital stock of \$20,000. A main of the stablish an oatmeal mill at Winnipeg.

The Dominion Cotton Mills in Brantford, Ont., are being worked to the utmost trai Ontario Railway Company to at once capacity at the present time. They are extend its line to Bancroft The extension working on home, and not Chinese trade as tile lands and minerals.



Felts for Pulp Mills <sup>20</sup> years in the business in Canada ; capacity 1,000 in Canada ; capacity 1,000

www.lbs. per day. All our Felts are woven endless, without a splice. Our Felts will last longer and make dryer Palp. All up-to-date mills use our Felts. New mills, when in need, write for samples and prices.



The Bryan Manufacturing Co., Collingwood, Ont., have been given an order by the Midland Elevator Co., to furnish the necessary dressed plank for the construction of their new elevator at Midland.

The Ogilvie Milling Company have purchased the oatmeal mill of Stephen Nairn at Winnipeg, and will greatly enlargo its capacity.

A by-law to grant a bonus of \$25,000 to the Canadian Pacific Railway Company, on the condition that workshops be established at Calgary, N.W.T., were to have been voted on, on June 13th.

The Canadian Pacific Railway Company are building twenty-seven new engines at their Montreal shops.

The Alberta Roller Mills at Calgary, N.W.T., have been sold to the Manitoba Grain Company who will enlarge the mills and erect an elevator.

Mr. J. H. Beamer, Brampton, Ont., has invented a new bicycle tire. It is made from very fine woven steel, and is said to have all the resilience of the pneumatic.

Another large elevator and freight warehouse are talked of for Parry Sound, Ont., the present large buildings recently furmshed already proving too small to accommodate the traffic over the Ottawa and Parry Sound Railway.

AN EXPERT ACCOUNTANT AND BOOKKEEPER,

HOUKKEEPER, Twelve years practical business experience, systematic, modern methods, good credit man and correspondent, possessing executive ability and competent to assume management of busi-ness, seeks engagement as auditor or chief bookkeeper. Is English, married, of good ad dress, and exemplary habits, Address H. F., 107 Edward Street, New Haven, Conn., U.S.A.

JOHN J. GARTSHORE, 19 Front St. West. Toronto.

RAILWAY, TRAMWAY, and

.... Contractors' Supplies METALS and SCRAP IRON

Bought and Sold.

# THE CANADIAN COLORED COTTON MILLS COMPANY.

Cottonades, Tickings, Denims, Awnings, Shirtings, Flannelettes, Ginghams, Zephyrs, Skirtings, Dress Goeds, Lawns, Cotton Blankets, Angolas, Yarns, etc.

Only Wholesale Trade Supplied.



A new pork packing establishment is talked of for Brockville, Oat. The Brock ville Dairyman's Board of Trade has passed a resolution favoring the project and pledging its support.

The Canadian Copper Company is opening up another mine northwest of Copper Cliff, Ont., and known as McArthur No. 2.

The Canadian Pacific Railway proposes to run a fast express between Montreal and the local trade. He is stocking a boathouse at Pacific coast, making the time in 100 hours, which is a considerable reduction on the Canadian woods, ordered to go to the Old present time consumed by the journey.

The Canadian Pacific Railway Company will build a million bushel clevator at St. John, N.B., this summer.

A FREE

**Scholarship** 

OF TORONTO.

YONCE AND CERRARD STS., TORONTO.

ADDRESS,

A mill to manufacture tissue paper is to be started in Ottawa by a number of he employes of the E. B. Eddy Co.

The James Smart Manufacturing Company Brockville, Out., will soon put upon the market a complete line of hot water boilers.

Mr. Walter Dean, at Sunnyside, Toronto, is very busy filling orders for his detachable Klondike canoe, and is also doing a large Orillia and is building several cances of fancy Country.

Mr. Amos Campbell, of the late firm of Campbell & Brodie, City of Quebec, manu facturers of boots, shoes and rubber goods, will engage solely in manufacturing for the trade. He will occupy the Botterell factory, that city, and will manufacture men's, boy's and youth's boots and shoes, boots for lumbermen. miners, fishermen and river drivers as well as long boots, beef moccasins, specialties for the Klondike trade and other heavy goods.

A. J. Corriveau, Montreal, and associates ne seeking incorporation as the North Shore Electric Railway Company, to build an elec-tric railway from Three Rivers, Que., to Montreal.

The Vancouver Smelting Company has been incorporated in London, England, with a capital stock of £220,000. The company will build a million dollar smelter and re-finery in Vancouver, B.C.

A \$30,000 steamer capable of making eighteen miles an hour, has been launched at Pembroke, Ont.

The Building Committee of the House of Industry, Toronto, have decided on the addition of two wings to the institution to cost \$13,000.

The American Lake Superior Power Com pany, is asking for bids for the construction of a water power canal at Sault Ste. Marie, Mich. The canal will be one and one-half miles long, 200 feet wide and twenty two feet deep. The work is one of great magnitude, involving the expenditure of several millions of dollars.

A. T. Higginson.



FACTORY AND WAREHOUSE - 23 to 29 ST. THOMAS STREET, MONTREAL. The Electrical Construction Go., LIMITED. OF LONDON,





Patent Double-Acting Gig Dyeing Machines.

Messrs. J. E. Smith and H. B. Murphy are establishing a reed and rattan factory at Falmouth, N.S.

The Ossekeag Stamping Co., Hampton, N.B., has commenced the maunfacture of enamelled ware.

The R.S. Williams Co. have been awarded the contract for a new pipe organ for Me-morial Church, London, Ont.

Charles Austin Barnard, of Montreal, and others have been incorporated as the Kennedy Company, to manufacture boots, shoes, hats, clothing, etc.

The Canadian Yukon Lumber Company, Montreal, is being incorporated with a cap-ital stock of \$100,000.

John Gillies, Carleton Place, Ont., and others, are applying for incorporation under the name of the Lake Temiscamingue Navigation Company, capital stock to be \$25,000.

J. W. Cameron, Ingersoll, Ont., manufacturer of pitching machines, etc., has sold out to M. T. Buchanan & Co.

Munn & Murphy, Kearney, Ont., manu-facturer of chair material have dissolved. A. E. Munn continues.

The Lac Du Bonnet Mining, Developing and Manufacturing Company, Winnipeg, Man., has been incorporated.

The Thamesford, Ont., cheese factory is making an average of sixteen boxes of cheese

The Brock Woolen Company, Simc.c, Ont., are working overtime.

The new wool clip is coming forward slowly. A year ago Toronto dealers were paying 20 to 21c. for washed, and 12c. for unwashed. Now they quote 10c. to 101c. for unwashed and 16c for washed.

The Sheppard Publishing Company, Toronto, will add another story to the Saturday night building.

Hon. John Haggart, Perth, Ont., and others, have been incorporated under the name of "The Canadian Electric and Water Power Company" with a capital stock of \$150,000, to produce and distribute elec-tricity in Perth, as well as in other towns in Canada

The Simpson Company, Berlin, Ont., shipped four car loads of furniture during the second week of May.

The Snerbrooke, Que., Gazette, gives an account of the visit of a party of Sherbrooke gentlemen to the Royal Paper Company's Mills at East Angus, Que., and the result of their observations. The new pulp mill has just been erected on the ruins of the old one recently burned. It is in itself a large factory, and is fitted with modern machinery and plant, including six boilers, a rotary furnace, four digesters, etc. The paper mill has a capacity of 15 tons of book and writing saper per day and is up-to-date in every particular. There is a large sawnill in con-nection which is also provided with the latest appliances.

Atest appnances. Charles Cochrane Corneille, merchant of Montreal, and associates, including David L. Baumgarten, of Cincinnati, Ohio, are applying for incorparation as the Sun Light Gas Co. The chief place of business will be Montreal. Apparatus for the production of Acetylone gas will be manufactured Acctylene gas will be manufactured.

The Chicoutimi, Que., Pulp Company, is turning out 40 tons of ground pulp daily, all for the British market. It has entered into an arrangement with the town of Chicoutimi to add to its establishment a sulphite fibre mill, to be crected at a cost of \$250,000.

and the second second second second second

is quite metropolitan in appearance.— pulp trade is now looking.

The Ashcroft Water, Light and Power Company, will erect a power house on the Bonaparte River, about three miles from Ashcroft, B.C., and install an electric plant to furnish light and power to Ashcroft and pleted a large order for The Wite plet for irrigating purposes.

A correspondent of The Paper Mill recent-ly interviewed a gentleman who had just returned from a trip through the Dominion. He is interested in the paper mill business, and makes it a business to keep in touch the Moncton Manufacturing Company's with what is going on in Canada among the mills. He stated that a new company has been incorporated for the purpose of build-ing a pulp mill on the Sissiboo river, near Weymouth, N.S. In Dartmouth, N.S., a proposition is being considered to bonus a pulp mill which is to have an output capacity of about 20 tons a day. The promoters have secured options on a fine water power, as well as land in the town. He had informa-tion that certain Ottawa people were look-ing for a suitable site and reliable water ing for a suitable site and reliable water power, with the intention of building a large pulp mill. It had been stated that if replace the steam power by electricity.

VANCOUVER. B.C.

The street railway is now graced by a the site and power were available, building handsome new closed-in-car, built by Pat-operations would be commenced during the torson & Corbin, St. Catharines. It is summer. He had learned that considerable longer and wider than any of the old cars, leaving it much more comfortable. It has in Canada, as it was considered a good field double doors, which work automatically, and for profit, considering the way the paper and its now here with the summer.

the Sanford Mfg. Co., Hamilton, Ont.

The capital stock of the London Electric Company, London, Ont., is being increased from \$200,000 to \$250,000.

Bicycles are now being manufactured at works at Moncton, N.B.

The Thornbury Woolen Mills, Thornbury, Ont., were burned a few days ago.

At a recent meeting of property owning

Barrington Bros. & Co., trunk manufacturers Montreal, offer to remove their factory to Lachine for a bonus of \$15,000.

The Cataract Power Company expect to be ready to furnish power to customers in Hamilton by July 1st.

Four new 10-wheel Mogul freight engines were recently added to the equipment of the Ottawa and Parry Sound railway.

Mr. Thos. Barnes, representing the Hamil-ton Iron Smelting Works Co., has been in town for the past few days looking up new properties for the company, as it is their properties to intend to interview that washes The company is now shipping 110 tons of ore per day from the following mines: Old Hemetite 50 tons, Cook-Thompson 50 tons and Melone 30 tons.-Marmora, Ont., Herald.

The newest industry in Paris is the manu facture of the shoulder brace for which Mr. At a recent meeting of property owning electors, of Valloyfield, Que., it was decided to grant a bonus of \$10,000 to the Northrup Loom Co., a bonus of \$5,000 to the Cie Generale des Boissons Canadienne, and a bonus of \$300 to provide a ferry boat between Coteau and Valleyfield. N. P. Tanquay has bought the sawmill of B. H. Cruss at Worden One and will diving enulloyneat to from a dozen to fwenty A. Copeman has applied for a patent. A giving employment to from a dozen to twenty hands .- Paris Review.

WM. HAMILTON MANUFACTURING CO., Limited

THE - -

MANUFACTURERS OF



The Lakeport, Ont., Preserving Co., will rebuild its factory destroyed by fire some

The P. & A. Corset Co., Farnham, Que.,

is being incorporated with a capital stock of

The Amhorst Prospecting and Mining Company, Amherst, N.S., has been incor-porated with a capital stock of \$50,000.

Manufacturing Co., Gananoque, Ont., was burned a few days ago.

The St. John Sulphite Co., of St. John, N.B., announce that they are in the market for large quantities of pulp wood.

The roller shovel shop of the D. F. Jones

time ago.

\$50,000.

The Chicoutimi Pulp Company has asked the town of Chicoutumi, Que., for a bonus of voted \$50,000 bonus towards the erection of \$30,000, in consideration of which they agree a grain elevator there. to build a large sulphite pulp mill, in addition to their present mill. They agree to expend in all some \$250,000.

E. F. Head and A. C. Boyce, Rat Portage, Ont., will ask incorporation as the Rat Portage Cold Storage Co., to build a \$50,000 cold storage plant at that place.

taken over the Beatty mill property at that Vache, near Tadousac, on the Saguenay place, which he will convert into a lumber River, Que., by Mr. Drew. mill and furniture factory.

The City Council, of Halifax, N.S , have

The premises in Brantford, Ont., until recently occupied by the Verity Plow Co., are being remodelled and will be occupied by the Goold, Shapley & Muir Co.

S. R. Wickett, of Toronto, and associates have been incorporated under the name of the Westminstor Mining Company, of To-Mr. Galbraith, of Parry Sound, Ont., has ronto, with a capital stock of \$195,000.

Samuel Clark, Duncan Clark and associates ANADIAN ORRECTLY of Toronto, have been incorporated under the name of The Toronto Grain and Seed Cleaner and Grader Manufacturing Company IVILITY HEMICAL OMPILED AREFULNESS OMPOUND with a capital stock of \$40,000. HEMICAL OMPLETENESS The ratepayers of Orillia, Ont., will short-ly be asked to voto the sum of \$75,000 for the proposed Ragged Rapids Power scheme. OMPANY OMPOUNDS ONTINUITY The town of Fort William, Ont., purposes spending \$40,000 in the construction of a system of waterworks. SAVE COAL! SAVE COAL! FOR USE OUR SPECIALLY PREPARED OR SALE то For term of years, LARGE FACTORY PREMISES SAFE-SURE-AND RELIABLE. AT KING ST. SUBWAY, TORONTO. Ground Floor Area, 36,000 feet. See that our Offic s-ZINKOLINE Railway sidings and other City facilities. Paper Brand is 310-311 Temple Bldg. LIBERAL TERMS. on the Package. Will Save You Money. LAND SECURITY COMPANY. TORONTO. 11 Victoria St., Toronto. THE OTTAWA PORCELAIN AND CARBON CO., Limited, OTTAWA. ONT. MANUFACTURERS OF **CARBON POI IC** for all kinds of Arc Lamps, including Cored ▶ and Solid Carbon for Incandescent Circuits. ALSO OTOR BRUSHES and Specialties in Carbon ORCELAIN INSULATORS, Cleats, Door Knobs, for Telegraph, Telephone and Electric Light ò and all kinds of Pressed Porcelain for Electri-Supplies. cal and Hardware Lines. ALL GOODS GUARANTEED TO GIVE SATISFACTION. The first cost is not the test of an actual saving. The truly Economical Manufacturer knows this to be true. For in-Savin stance, the cheap, trappy Pulley, by its inferior working qualities, is a source of loss to the user the moment it is

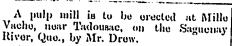
put in operation, and this loss continues all the time the Pulley is working. You do not get the full or proper results from your power plant. Higher price, though, is not always a sign of better quality, for instance-you may or may not have to pay more for

# "THE REEVES" PATENT WOOD SPLIT PULLEY

but in either case you are getting the best value on the market. Because with THE REEVES the saving is continual, in Power, in Time, in Shafting, in Belting, and last but not least, and as a result of all the other savings, a saving in Money. CAN YOU AFFORD TO BE WITHOUT "THE REEVES"? Is the best too good for you? WRITE TO-DAY FOR OUR CATALOGUE AND GET OUR PRICES.

Also COLUMBUS, IND.

## **REEVES PULLEY CO., Toronto, Ont.**



2. 2. 1

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The Halifax Tramway Co., Halifax, N.S., recently installed a second 5,000 light monocyclic alternator for their electric light service, making a total capacity of 16,000 lights.

Most of the lumbor mills in the Ottawa Valley have commenced operations for the season. The J. R. Booth mill started with 800 hands, the Hull Lumber Co. with 200, the Bronson and Weston Co. with 350, and Gilmour & Hughson with 300.

The city council of St. John, N.B., have granted the local Board of Trade \$300 to aid the Board in getting out a book, descriptive of the harbor and the facilities for trade at that port.

The Londonderry Iron Co. are receiving large orders for culvert pipes. They re-cently shipped a carload to Messrs. J. H. Townshend & Co., contractors for the Coast Railway Co.

Messrs. Rhodes, Curry & Co., Amherst, N.S., who were burned out less than two months ago, already have new buildings nearing completion. They will give employment during the summer to 200 hands in the carshops alone.

Mr. J. W. Daly, of Cartwright, Man., and associates, are applying for letters of incorporation as The Mather Joint Stock Farmers Elevator Company, Ltd. It is proposed to erect an elevator at Mather Siding, Man.

## Factory for Sale.

A large, convenient and well-located factory, situate on Barton street, Elgin and Mary streets in the

#### CITY OF HAMILTON.

The city council of St. Henri, Que., have authorized Mr. L. N. Senecal, the city clerk, to use his new patent on the St. Henri fire engine. The patent is an ingenious arrange ment by means of which the engine is driven by electricity instead of steam. is

Messrs, W. P. McNeil & Co., New Glas gow, N.S., have shipped two new bridges, one to Canada Creek Keings Co., and one to Wilmot Annapolis Co. They also have four more bridges in course of construction.

Messrs. I. Matheson & Co., New Glasgow, N.S., have the contract for overhauling the machinery of and putting a new boiler in the steamship John L. Cann.

The Condensed Milk & Canning Co., of Truro, N.S., have ordered a fifty horse power engine from the Robb Engineering Co. to replace the one destroyed in their recent fire.

The Lakeport Preserving Company's factory at Lakeport, Ont., was destroyed by fire a few days ago.

A late issue of the Bras D'Or Gazette says that Mr. C. Ochiltree McDonald, of Port Morien, C.B., who returned from England last month, is instructed by the Newcastle Coal Syndicate, which he represents, to call for tenders for sinking shafts, and putting up mining works on the coal pro-perty which his syndicate has acquired at Port Morien.

The Eureka Mineral Wool and Asbestos Co., 136 Bay St., Toronto, have increased their lones of business, having added a large and complete stock of engine packings, labricat-ing oils, grease, boiler compound, etc., and they are now ready to supply any of these goods to consumers and the trade.

A. Schneider & Co., Pearl St., Toronto, manufacturers of electrical machinery, etc., have moved to 106 York St.

The Russell Theatre, the Sun Life Insurance Building, the Hotel Cecil, the Harmony Hall, and Grand Opera House. These boilers are installed by E. A. Wallberg, Montreal.

G. B. Burland, Montreal, has installed a Kingsley water tube steam boiler plant, in the Union Card and Paper Co.'s new works. This is the second order that Mr. Burland has given for Kingsley boilers after using them for four years. They are installed by E. A. Wallberg, Montreal.

The Western Loan & Trust Co., Montreal, is installing a new heating system in their building, using the Kingsley water tube boiler installed by E. A. Wallberg, Montreal. David Ogilvy is the architect.

The drying and shipping of cel-grass to Montreal and the United States is becoming quite an industry in Yarmouth, N.S. It is used for making certain classes of paper and for sheathing purposes.

# ERALD-BOIL

1-16 of an inch of Boiler Scale adds 15 per cent. to the fuel account. Emerald Boiler Oil gives the most perfect results with all kinds of water. It's a Pure Petroleum Extract. It is an effective agent for removing scale from Boilers.



Burr Bros., manufacturers of furniture Guelph, Ont., have sufficient orders ahead to keep the factory running for the next six weeks at full time.

No less than 32 boot and shoe factories are in full operation in Quebec city. They employ in all about 4,500 hands and turn out 30,000 pairs of boots and shoes per day.

The Dominion Government has voted \$250,000 for increased accommodation of the I.C.R. at St. John, N.B., and \$75,000 to build an elevator at the same place. An appropriation of \$75,000 has also been made to build an elevator at the Port of Halifax. This amount will be supplemented by the Halifax City Council to the extent of \$50,-000.

Robert Shaw, of Avonport, N.S., has recently equipped a brick yard with the most improved machinery consisting of a 40 h. p. engino, a 45 h. p. boiler, a now Quaker mill for making bricks by the moulding process, and a Kelts combined brick and tile mill. The latter cuts the bricks or tiles at the ends by wire. The tiles are to be made from 24 inches to 10 inches in diameter.

D. K. McLaren, mill furmsher and manufacturer of oak tanned leather belting, at Montreal, Ottawa and Galt, is hard at work in his new factory turning out the belts ordered by Messrs. W. Doherty & Co., for their new organ factory at Clinton. This order amounts to upwards of three thousand feet, including two dynamos, and was placed through his Galt stock depot. -- Galt Reporter.

A new flour mill is to be built at Keewatin, Man.

Fire at Aylmer, Ont., a few days ago destroyed the planing mill, blacksmith shop and residence of John Watts. Loss about \$15,000.

The Winnipeg Industrial Exhibition As-sociation will hold their annual exhibition this year from July 11th to 16th inclusive.

The Cockshutt Plough Co., Brantford, Ont., who spent \$20,000 in improvements last year, contemplate still further expenditures for alterations and improvements this

quarter of a million feet will be required.

Operations have begun at the Chalcraft screw works, the new industry established at Brantford, Ont.

The English Bay Canning Co. has been incorporated with a capital stock of \$50,000. The head office of the company will be in Vancouver, B.C.

The business of the Brantford Box Company has increased to such an extent that it has been decided to erect large additions to their factories, and put in additional machinery.

The Tilbury, Ont., handle factory is now running overtime, being pressed with orders, which include twelve car loads for shipment to England during the next four months.

Charles Fawcett will double the capacity of his flour and feed mill at Moncton, N.B.

The works of the Ossekeag Stamping Co., at Hampton, N.B., are now in active opera-tion. The range of the company's production tion. The range of the company s production is quite large, including stamped, pieced, Japanned, galvanized, and retinned tinware of all kinds. The plant is distributed throughout five buildings, which are very conveniently situated on the line of the I. C. R., and thus makes shipping and receiving their goods very expeditious. The plant year. The Galt Lumber Co., Galt, Ont., has re-ceived the contract for supplying the lumber for the new Turnbull factory. Over a quarter of a million feet will be required. requirements of the company. The entire premises are supplied by light from their own electric plant, and an average of 100 to 125 hands are employed.

The Amherst Red Stone Quarry Co., start the season with prospects for work that exceeds those of any year yet. A large area has been cleared and the indications are that the stone improves steadily in quality as it extends westward. There is now in sight a broad escarpment of magnificent stone which is being taken out with little work, and hundreds of tons of stone suitable for cellar walls, etc., are within easy access. The company have put in a new boiler and have a steam drill at work. The latter is proving a great savor of labor; with it a hole can be made in five minutes that by the drill and to England during the next four months. Messrs. Rhodes, Curry & Co., Amherst, N.S., recently sent out ten new cattle cars for the I.C.R. They are at work on other cars for the I.C.R., the Dominion Coal Co., the Broad Cove Coal Co., and the General Mining Association.

# The Canadian Manufacturer

### TORONTO, CANADA.

The Official Organ of the Canadian Manufacturers' Association,

Which Represents all the Important Manufacturing Industries of the Dominion.

EXPORTERS FROM CANADA

Desiring information regarding the best facilities for shipment abroad, with whom Correspondence may be had, and to whom Consignments may be made, should correspond with

# THE CANADIAN MANUFACTURER, TORONTO, CANADA.

NO CHARGE MADE FOR GIVING INFORMATION.

## **BUSINESS BRINGERS.**

Paying Pointers for Wide-awake Business Men who are Watching for Trade Opportnnities.

The congregation of the First Methodist church, Picton, Ont., will build a new edifice to cost about \$22,000. Messrs. Power & Son are the architects.

Mayor Fowke and Mr. T. H. Everson, of Oshawa, Ont., have formed a joint stock company to be known as the Oshawa Grain company to be known as the Osmawa Orani and Produce Company, with a capital of \$25,000 for the purpose of buying and selling all kinds of grain, seeds and farm produce, and of doing a general warehousing and storage business. A large grain elevator and fruit house will be constructed at once.

A two-room brick school building is to be erected at Scarboro Junction, Ont. Messrs. Simpson & Ellis, Toronto, are the architects.

Hintonburg, Ont., is raising \$7,000 for the orection of a school building.

J. Brown, Toronto, is asking the city of Guelph, Ont., to grant a bonus of \$50,000 to the Smelting Mfg. Co. which he represents, as an inducement to erect smelting works there which will cost \$135,000.

The new C.P.R. grain elevator to be built at St. John, N.B., will cover an area of 182x94 feet, and be 148 feet high.

Irwin Joyle, Fulford, Que., will build an electric lighting plant there for commercial purposes.

The present season promises to be an un-usually busy one in Quebec. The corpora-tion has \$250,000 to spend on improvements, the Harbor Commissioners will build a \$250,000 mborf mbile the conductant of \$350,000 wharf, while the amalgamation of the Quebec District Railway with the Quebec, Montmorency & Charlevoix Railway, will necessitate extensive works, the cost of which is not yet known.—Trade Review.

The congregation of Knox Church, Toronto, have decided upon improvements to cost \$4,500. A galvanized iron roof will be put on, the main entrance improved, the basement, including Sunday school room, remodelled, and the interior of the auditorium painted.

The Dominion supplementary estimates The Dominion supplementary estimates include the following appropriations: In-tercolonial Railway — Improvements to Dalhousie wharf, \$3,600; increased accom-modation at Moncton, \$40,000; to pay for replacing a wooden trestle by masoury, culvert and solid embankment, \$2,450; include at States to the second s culvert and solid embankment, \$2,450; dredging at deep water terminus at St. John, \$5,000; suow plough for Cape Breton district, \$2,500; lengthening engine stalls and turn table, \$5,000. Windsor, N.S., public building—reconstruction of building, destroyed by fire on October 17th, \$15,000; drill shed — reconstruction of building, \$3,000. Prince Albort, N.W.T., court house and jail accommodation—new works and ropairs, \$6,900. Public buildings, Ot-tawa—for increased heating apparatus and gas fixtures, etc., Langevin Block, \$1,760. Coteau Landing—dredging, \$11,000. Dredg-ing Kingston harbor, \$6,000. Examina-tions, etc., Stikine river, \$14,000. Dredg-ing—Nova Scotia, Prince Edward Island and New Brunswick, \$10,000; Quebec and Ontario, \$10,000. Bow river bridge at Banff, repairs, \$2,500. Banff, repairs, \$2,500.

A new Methodist church is to be built at Chesley, Ont.

T. C. Douglas, Reove, North Dumfries, Ont., is inviting tenders for the crection of a bridge with necessary stone or wood abut ments, over Grand River, near Galt, Ont. The bridge is to be 395 feet long, about 16 The bridge is to be 395 rect rong, most of feet high with 10 or 12 feet roadway, of either iron or wood, capable of sustaining a prepared plans for alterations in the high school building in that town to cost \$3,200.

The erection of church edifices in the Province of Quebec seems to be on the boom. A Sherbrooke architect has furnished plans for the following Roman Catholic churches to be built this summer. At Marbleton, foundations already laid, completed by Nov-ember 1st, cost \$8,000; at Garthby, of wood, timshed by November 1st, cost \$11,000, at Barford, granite with cut stone front, foundations already laid, finished by January 1st, cost \$19,000; at St. Cecile de Whitton, of wood, finished in autumn, cost \$6,000; at Factoe's Mills, chapel of wood, finished in June, cost \$3,000; at Island Pond, finished in autumn, cost \$9,000; restoration of church at Paquetville, \$7,000.

Architect W. W. LaChance, Hamilton, Architect W. W. LaChaller, Hamilton, Ont., has completed plans for the following work, all of which will be proceeded with immediately : A three story and basement factory building for E. T. Wright & Co. ; a two-story addition to the school building at Stony Creek, school section No. 3, Saltfleet; an office building and steel coal sheds, covering 21,000 square feet of ground space, for Hemming & Marshall.

The plans provide for a plumbing system and a hot water heating apparatus.

The authorities of Winnipeg University are considering the question of crecting new buildings. The Dominion Government has granted to the University six acres of land, and upon this University buildings and probably a Norn al and Model school will be orected.

David Ouellet, architect, Quebec City, has been instructed to prepare plans for a church for the parish of Sayabec.

An agitation is on foot to establish a factory in St. John, N.B., to cure bacon and hams for the English market.

# HAMILTON COTTON CO.

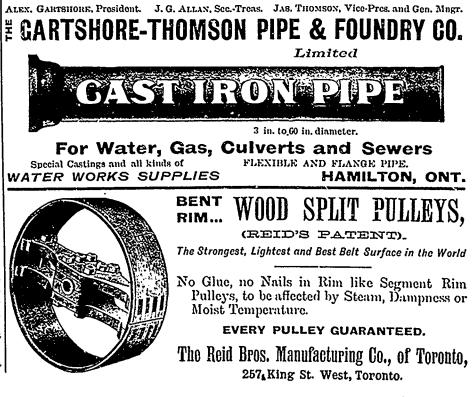
HAMILTON, ONTARIO.

#### YARN MANUFACTURERS, DYERS, AND BLEACHERS,

Warp Yarns of all descriptions, in Skein, Chain or on Beams. Hosiery Yarns in Single or Double ; in Cop, Skein or Cone. Yarns of all kinds for Manufacturers' use.

Twines, Lampwicks, Webbings, Etc.

Dyeing of all colors, including GENUINE FAST BLACK.



Messrs, J. Z. Long & Son, architects, St. Thomas, Ont., are asking for tenders for the erection of a brick and stone twelve room school building to be crected in that city.

C. J. Brown, city clerk of Winnipeg, Man., is advortising for tenders for the construction and supply of a system of wells and pumping plant for the supply of 4,000,000 gallons of water daily to that city.

W. E. Binning, town clerk of Listowel, Ont., is asking for tenders for power house, steam hoiler, elevated storage tank, water mains, valves, hydrants, etc., for that town.

J. A. Cockburn, clerk, Crysler, Ont, is asking for tenders for deepening, widening, straightening and otherwise improving the Payne River and Beaver Creek near that place.

N. R. Darrach, architect, St. Thomas, Ont., has charge of the erection of a brick and stone school building in that city.

John Shaw, Mayor of Toronto, is asking for tenders for placing elevators in the new city buildings.

A new Methodist church and schoolhouse

at Windemere, Ont.

Kalso, B.C., is offering a promium for accepted plans for municipal buildings to be

A new Methodist church is to be built at Hampshire, Ont.

The town of Prescott, Ont., wants water works, and will try to raise \$100,000 for that

is to be built at Picton, Ont. A new Presbyterian church is to be built

erected at that place.

purpose by the sale of debentures.

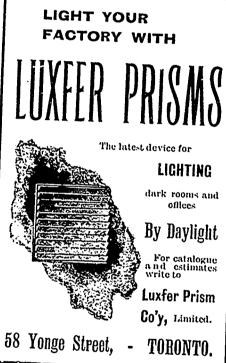
JOHN J. KELLER & CO. 104 and 106 MURRAY ST. NEW YORK 220 Church St., Philadelphia.

135 Pearl Street, Boston.

Aniline Colors, Dyewood Extracts, Sumac and Nutgall Extracts.

FAST COLORS for Wool Dyeing, One Dip Cotton Colors, Novelties and Specialties for Calico Printing. MANUFACTURED BY

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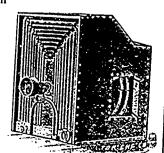
Ventilating Steel-Plate Fans, Blowers and Exhausters.

WE have on hand Fans of the Best American Makes, ranging from 15 inch to 72 inch. Also Second-hand Coil Heaters, with Fans to suit, from 1,000 feet to 5,000 feet of inch pipe capacity.

THE ABOVE ARE FOR SALE CHEAP.

Write for Prices and Send for Catalogue.

McEachren Heating and Ventilating Co., GALT, ONT.



It is estimated that commercial buildings will be crected in Winnipeg this year to cost not less than \$700,000.

Tonders are invited for building a three storey brick hotel for the C.P.R. at Moose Jaw, N.W.T., to cost \$30,000.

Mr. J. C. Dumaresq, architect, Montreal, is inviting tendors for a bank building in Moneton, N.B., as well as for a number of other buildings both in Moneton and Mon-

The city engineer of Brantford, Ont., reporting on the best method of protecting certain parts of the city from flood, rocommends the construction of works that would cost about \$40,000.

The town of Woodstock, N.B., is to have a new electric fire alarm system. H. D. White, of Fredericton, is preparing the specifications.

The plans of Simpson & Ellis, architects, Toronto, have been accepted for a public school building at Scarboro Junction to cost \$3,500. The same architects are preparing plans for a school building for Prince Albert, N.W.T.

The Dominion Government will ask for new tenders for the reconstruction of the breakwater and repairs to piers at Goderich, Ont., the original contractor having been compelled to throw up the work on account of ill health.

The following appropriations were included The following appropriations were included in the supplementary estimates presented to the British Columbia legislation: Jail at Vernon, \$12,000; furniture at court house, Vancouver, \$2,000; registry office at court house, Victoria, \$7,000; recorder's office and lock-up at Teslin Lake, \$10,500; lock-up at Stikine river; protection to town of Golden, \$1,100: protection work. Columbia river. Stiking river; protection to town of Golden, \$1,100; protection work, Columbia river, near Revelstoke, \$16,000; dredging and dyking plant, \$8,000; new wing to Asylum for Insane, \$16,000.

The Northrop Loom Co., of Canada, are about erecting a factory in Valleyfield, Que., about crecting a factory in Valleyfield, Que., for the manufacture of the Northrop patent loom, for use in Canada. This company has been incorporated for this purpose with a capital stock of \$100,000 with Mr. A. F. Gault as president, and for directors Messrs. A. F. Gault, Geo. Otis Draper, of Hopedale, Mass., R. R. Stevenson, Samuel Findlay and Louis Simpson, general managers of the Montreal Cotton Company. The orection of the new factory buildings will be begun during the present month, and it is expected that the work will be in full operation early in the coming fall, when the output of looms will be about twenty per week. Quite a large number of these looms manufactured by the Draper Company, Hopedale, Mass., are now in operation in the Valleyfield mills of the Montreal Cotton Company, giving so of the Montreal Cotton Company, giving so much satisfaction that the management of that mill are convinced that no concern manufacturing plain clothes, especially with the lower counts of yarn, can afford to be without them.

The Eureka Mineral Wool and Asbestos Co., Toronto, have the contract for covoring the steam and refrigerating pipes of Harris & Co.'s, abbatoir, Toronto, also the pipes in now building corner King and Yongo Sts., Toronto, and the steam pipes in Firstbrook Bros. new box factory, Toronto. They have just completed covering the steam pipes of the entire plant of the St. John Ry. Co., St. John, N.B.

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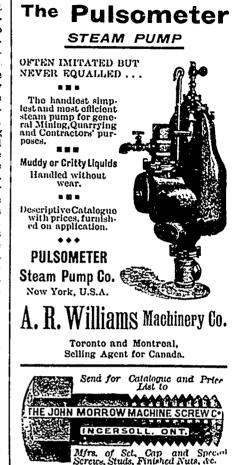
#### CORRESPONDENCE.

Editor of THE CANADIAN MANUFACTURER :

Sir,-I have read in your journal of a novel method of compulsory early rising, but I would call it a very intricate way of doing the work. I will tell you of my way of effecting the same object, and by a more simple apparatus. To start with I procured simple apparatus. To start with I procured one of the old style bedsteads, one that I had to get a chair or stepladder to enable me to get up on the bed. I fastened on the foot legs of this bedstead a pair of hinges, three feet from the floor, then with a fine saw I cut the legs a triffe on the boyel upwards, so that when cut through the angle would be a trifle over the centre which held them in place. Arranged to a common spring clock which was in the room I con-nected wire to a small levor with weight attached to the foot legs of the bed, and at whatever hour I wished to be dumped I would set the alarm clock. When the proper hour arrived the alarm mechanism would wind a cord that was at the end of the wire, which would pull a little slide trap that held the weight on the lever, then the weight would come down on the lever, which weight would come down on the lever, which in turn, would push the sawn legs of the bedstead over the centre, and down would come the foot of the bed, leaving me in an almost standing position. This plan worked to perfection for a time, but one morning being very sleepy 1 pulled the mattress onto the floor where 1 slopt it out. Then, when I found that I had slept the tween I should have I found that I had slept when I should have been at work, I fastened the mattress and bedclothing to the bedstead, which plan worked very well for a time until another sleepy morning came, when, after the usual tumble-down process, I lifted the bedstead

up into its place and had a good sleep, but this particular morning happened to be Sunday and the only trouble was that I got no Thinking that I might be inbreakfast. duced to indulgo again on some other morning, I made a spring lock or catch, so that when the foot of the bed went down the legs were locked in that position, the key being hung up down stairs, and with the knowledge that it was impossible to get another nap on that bed after once upended, I soon became accustomed to the upsetting time and seldom got the upset for I would invariably be out on the floor before the tumble took place. This was twenty-five years ago and I might say that I have not slept in that cut leg tumble down bed for twenty-four years, but for all that when the hour arrives I jump out all the same. It is what I call a sure cure for late rising and morning sleepiness. The contrivance is effective, simple and not expensive, as the whole contrivance costs less than \$5.00, but I assure you that I have had more than five times five dollars worth of fun from that Myself and Mrs. on more than one bed. occasion have and Mrs. on more than one occasion have arranged that bed for the use of newly married couples, with most re-markable results. You will notice, Mr. Editor, that the ideas and results obtained are the same, only the plan you mention is operated with electricity and mine with the force obtained from the spring of an ordinary alarm clock. There is money in making such beds for the market for they would sell like hot cakes. C. C. C.

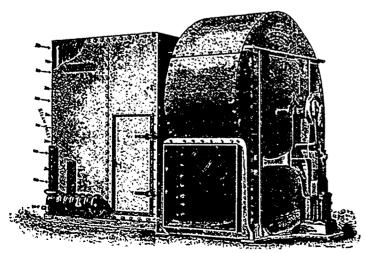
Charles F. White's mill at Apple River, N.S., was burned a few days ago. Loss about \$20,000.



# THE STURTEVANT SYSTEM

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**Heating and Ventilating** 



The Sturievant Steam Heating and Drying Apparatus

For

(This Apparatus is unexcelled for Lumber, Cotton, Wool, Hair, Brick, Drying Pottery, Glue, Soap, Cloth and all Textile Goods.

#### APPLICABLE TO ALL CLASSES OF BUILDINGS

Has had a THOROUGH TEST in the Dominion AND THE

Northern Portion of the United States.

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## **B. F. STURTEVANT CO.**

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**Toronto, Brantford, Montreal** 

In the issue of THE CANADIAN MANUFAC-TURER of August 6, 1897, was published the British West Indies, including the from official sources; and in the same issue the United States Tariff, the British Tariff and the British Merchandise Act and the Newfoundland Tariff. At the session of the Dominion Parliament just closed, the following amendments were made to this Canadian Tariff, and it would be well if our readers who desire to be correctly informed as to the tariff as it is at this dato read the amendments here given in connection with what appeared in our Tariff Edition of last August.

36

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#### SCHEDULE "A."

1. That it is expedient to repeal section six of "The Customs Tariff, 1897," and to substitute the following section therefor :

6. The importation into Canada of any goods enumerated, described or referred to in Schedule C to this Act is prohibited, and any such goods imported shall thereby become forfeited to the Crown and may be destroyed or otherwise dealt with as the minister of customs may direct; and any person im-porting any such prohibited goods, or causing or permitting them to be imported shall for each offence incur a penalty not exceeding two hundred dollars.

2. That it is expedient to provide that section seventeen of "The Customs Tariff, 1897," shall b. repealed on and after the first day of August in the present year, one thousand eight hundred and ninety-eight, and that the following section shall be substituted therefor:

17. Articles which are the growth, produce or manufacture of any of the following countries may, when imported direct into Canada from any such countries, be entered for duty or taken out of warehouse for consumption in Canada at the reduced rate of

(a) The United Kingdom of Great Britain and Ireland.

(b) The British colony of Bermuda.(c) The British colonies commonly called

The Bahamas.

Jamaica.

Turks Island and the Caicos Islands.

The Leeward Islands (Antigua, St. Chris-

tophor-Novis, Dominica, Monserrat, and the irgin Islands).

The Windward Islands (Grenada, St. Vincent and St. Lucia). Barbados.

Trinidad and Tobago.

British Guiana.

(d) Any other British colony or possession the customs tariff of which, on the whole is as favorable to Canada as the British preferential tariff herein referred to is to such colony or possession.

Provided, however, that manufactured articles to be admitted under such preferential tariff shall be bona fide the manufactures of a country or countries entitled to the benefits of such tariff, and that such benefits shall not extend to the importation of articles into the production of which there has not entered a substantial portion of the labor of such countries. Any question that may arise as to any article being entitled to such benefits shall be decided by the minister of customs, whose decision shall be final.

(2.) The minister of customs, with the approval of the governor-in-council, shall determine what British colonies or possessions shall be entitled to the benefits of the preferential tariff under clause (d) of this section.

(3.) The minister of customs may, with the approval of the governor in council, make such regulations as may be deemed necessary for carrying out the intention of this section.

3. That it is expedient to provide that Schedule D to "The Customs Tariff, 1897," shall be repealed on and after the first day of August in the present year, one thousand duty provided in the British preferential the following schedulo shall be substituted the following schedulo shall be substituted therefor:

#### SCHEDULE '. D."

BRITISH PREPERENTIAL TARIFF.

On articles the growth, produce or manu-facture of the United Kingdom of Great Britain and Ireland, or of any British colony or possession entitled to the benefits of this preferential tariff under section seventeen, the duties mentioned in Schedule A shall be reduced as follows: The reduction shall be one-fourth of the duty mentioned in Schedulo A, and the duty to be levied, collected and paid shall be three fourths of the duty mentioned in Schedule A.

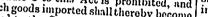
Provided, however, that this reduction shall not apply to any of the followingarticles, and that such articles shall in all cases he subject to the dutics mentioned in Schedule A, viz : wines, malt liquors, spirits, spiritu-ous liquors, liquid medicines and articles containing alcohol; tobacco, cigars and cigarettes.

Provided further, that the reduction shall only apply to refined sugar, when evidence satisfactory to the minister of customs is furnished that such refined sugar has been manufactured wholly from raw sugar produced in the British colonies or possessions.

4. That it is expedient to repeal items 435 and 436 of Schedule A to "The Customs Tariff, 1897," and to substitute the following therefor :

435. All sugar above number sixteen Dutch standard in color, and all refined sugars of whatover kinds, grades or standards testing not more than eighty-eight degrees by the polariscope, one dollar and eight cents per one hundred pounds, and for each additional degree one and one-half cents per one hundred pounds. Fractions of five-tenths of a degree or less not to be subject to duty, and fractions of more than fivetenths to be dutiable as a degree.

436. Sugar n.e.s. not above number 16 Dutch standard in color, sugar drainings or pumpings drained in transit, melado or concentrated melado, tank bottoms and sugar concrete, testing not more than seventy-five degrees by the polariscope, forty cents per one hundred pounds, and for each additional degree one and one-half cents per one hun-



June 17, 1898.



dred pounds. Fractions of five tenths of a degree or less not to be subject to duty, and fractions of more than five-tenths to be dutiable as a degree. The usual packages in which imported to be free.

5. That it is expedient to provide that items 445 and 446 of Schedule A to "The Customs Tariff, 1897," shall be repealed on and after the first day of July in the present year, one thousand eight hundred and ninety-eight.

6. That it is expedient to provide that on and after the 1st day of July in the present year, one thousand eight hundred and ninetyeight, the following items shall be added to Schedule B to "The Customs Tariff, 1897":

636. Tobacco, unmanufactured, for excise purpose under conditions of the Inland Revenue Act.

7. That it is expedient to provide that on and after the first day of July in the present y-ar, one thousand eight hundred and mnetyeight, in addition to the excise duties at present levied on manufactured tobacco, cigars and cigarettes, there shall be levied and collected the following excise duties, that is to say :

(a). On all foreign raw leaf tobacco, unstemmed, taken out of warehouse for manufacture in any cigar or tobacco manufactory, ten cents per pound.

(b). On all foreign raw leaf tobacco, stemmed, taken out of warehouse for manufacture in any cigar or tobacco manufactory, fourteen cents per pound.

Provided that the weight upon which such duty shall be computed shall be with reference to the standard mentioned in paragraph (c) of section 247 of the Inland Revenue Act.

When the House went into committee of Ways and Means, Hon. W. S. Fielding explained that an error had crept into the tariff act of last session. The votes and proceedings of the House showed that the duty imposed on rubber belting was 25 per cent., but the words "rubber belting and rubber cement" were omitted from the rubber resolution as finally printed, throwing these items under another item at the rate of 20 per cent. The committee restored the duty to 25 per cent.

#### SUGAR DUTIES.

Mr. Fielding made a proposal with reference to the duty on raw sugar, which he said might be regarded as another stop in the direction of imperial preferential trade. In the tariff passed on April 6th last, the benefit of the preferential duty was extended to the British West Indies and Bermuda. It had been claimed that one effect of that was to produce unequal conditions of the sugar trade by giving advantage to the sugar interests on the Atlantic coast, which did not extend to the sugar interests on the Pacific coast, where they draw their supplies of sugar from sections of the empire not brought within the scope of the preferential tariff in April last. It was suggested to extond the preference to the British possessions of Queensland, Fiji, and perhaps Mauritius. He proposed to deal with raw sugar, as described in our tariff in a different way, and instead of admitting these products generally under the preferential tariff, to provide that raw sugar from all portions of the British empire shall be admitted under the terms of the preferential tariff. That would meet complaints of those interested in the trade on the Pacific coast, and he was inclined to think might lead to the encouragement of trade between Canada and the Australian colony. The duty on this raw

sugar is 40 cents per 100 pounds, and for each additional degree 14 cents per 100 lbs. Such sugar coming now direct from any portion of the British empire will be dutiable at the above rates, less 25 per cent.

Another resolution provided that the tariff shall be treated as coming into force April 6, 1898. There was no discussion on these amendments and the resolutions were reported.

Note.—The tariff of 1897 was amended by resolutions introduced in April 1898. In June 1898 additional changes were made, all of which are embodied in the foregoing.

#### NEW DYESTUFFS.

Direct Deep Black E. and Direct Deep Black E. extra.—A new homogeneous Benzidine color in two concentrations. This Black corresponds to the well known brand Direct Deep Black G., being somewhat clearer in shade. It exhausts better and is of the same strength. The Extra brand however, is double as strong. Up to the present time the cheapest direct blacks have had preference, irrespective of their shade. Many dyers have changed to cheaper blacks, even when the shades have been totally different to that which they have been using. Direct deep Black F. extra, being just twice as strong as other direct Blacks, is proportionately cheaper in price as saving in freight and packing can be affect 'd.

and packing can be affec 'd. Diazo Indigo Blue B., and Diazo Blue, 3 R.- These products are the two latest substitutes for Indigo on Cotton just placed upon the market by the Farbenfabriken of Elherfeld. The disadvantages of Indigo in cotton dyeing, viz., high price, bad penetration, looseness of color to washing and rubbing and consequent continual atripping of color, have been long recognized by textile manufacturers as well as color makers.

Diazo Indugo Blue, B., gives of itself, light or medium shades of Indigo when diazotised and developed. For dark shades it is combined with Diazo Red Blue, 3 R., or the new Diazo Blue, 3 R. The last named color produces clear reddish blue shades when diazotised and developed on the fibre. Besides dyeing easily level, these colors do not effect the natural softness of the cotton, or deteriorate it for spinning. In price they are much cheaper than Indigo.

Benzo Chrome Brown, 3 R.—The above brown is the fourth and newest addition to the Benzo Chrome Brown family. The G. B. and R. brands of which were recently brought out by the Fabenfabriken Co., of Elberfeld, met with such success, that the above Benzo Chrome Brown, 3 R., has just been added to the group, and will prove a very useful color.

Benzo Chrome Brown, 3 R., dyed direct, produces a clear deep reddish brown, having the same properties as the older brands, and is therefore applicable either as a direct color or for after treatment with Chrome or Bluestone, and in the latter case is noteworthy for its great fastness to washing, light and rubbing.

worthy for its great fastings in the second second

Lazuline Blue, R.— Lazuline Blue R. is the latest addition to the list of acid wool dycing blues. It dycs very easily level, being in this respect equal to the average acid violets, to which however it is much superior, in its fastness to light and rubbing and being therefore very suitable for the production of slates and drabs or bright navy blues, upon ladies dress goods, yarn, etc.



It is fast to milling and stoving, and should prove useful in blanket manufacturing.

Samples, dyed shades and circulars of any of the above new products will be mailed gratis by applying to the Dominion Dye wood & Chemical Co., Toronto, sole agents in Canada for the Farbenfabriken, vorm. Friedr Bayer & Co., Elberfeld Germany.

#### CANADA'S GREAT FAIR.

Toronto's Great and Only Industrial Exing exhibitors should take due notice.

Of the Manufacturers' and Industrial Department. Robert Davies, Esq. is chairman of the committee in charge, and it is an-nounced that entries to this department close on August 6th. The Implement Building is fitted throughout with shafting so that checked. And all this demand for soldiers exhibitors can show their machines in opera-tion. The shafts are turned to 21 inch guage, speed 65 to 70 revolutions per minute. Manufacturers who were exhibitors last year will, if possible, be allotted the same space department are received for exhibition only.

Engines and Machinery Department: Engines and Machinery Department: Chairman of Committee, George Booth Chairman of Committee, George Booth, Eaq. Entrance fee 25 cents for each article No charge for space or power. There are two shafts in Machinery Hall, each turned to 23 inch guage-speed 150 and 300 revolu-tions per minute. In this department will be located stationary engines, steam ham-mers, iron and wood-working machinery, road making machines, machines for flour and saw mills, fire engines and appliances, pumps, machines for miscellaneous purposes, railway and street cars and appliances, telegraph, telephone, and electrical supplies

And appliances, fire escapes, boats, etc. Miscellancous Manufacturers, W. K. McNaught, Esq., Chairman of Committee. Most of the exhibits in this department will be displayed in Main Building and Annex. It is recommended that entries should embrace a full assortment of each kind of article exhibited, and the display should be as extensive and attractive as possible.

Other departments include textile fabrics, stoves, ranges, furnaces, hollow-wave, carri-ages, wagons, hicycles, etc.

Tenders are called for a central fire hall building for Winnipeg.

#### WILY SHOULD IT BE?

A comparison of the state of affairs at Skagway and at Dawson City is anything but favorable to Yankee administration of law and order. In Dawson City, under British rule, a new mining camp, composed of a heterogeneous mingle of representatives from half the nations of the globe, is kept in order by a few police ; and life and property are as secure there as in Victoria; indeed more so, for they have neither aldermen nor Point Ellice bridges. In Skagway, bibition is booked to be opened to the puble abroad unpunished, and a United States on August 29th, and continue open until officer is wildly imploring his government September 10th next, of which event intend to send him a few battalions of infantry on the other hand, crime and murder stalk to enable him to keep some semblance of order among the miscellaneous brood of tinhorn gamblers, murderers and disreputable characters of all sorts who appear to consider that wherever the Stars and Stripes fly, there they are free to ply their trades unit not because of a riot, mind you. There is no popular commotion. It is simply because soldiers are required to undertake the duty that the United States police have, in will, if possible, be allotted the same space every large city, been too venal and too in this building this year. No charge is made for space or power. Articles in this Mining Record. — British Columbia department are required for

## TRADE OF THE LAKES.

"The importance of the commerce of the lakes increases every year," says the Buffalo Sunday News. "The commerce of the lakes has already dwarfed the Suez canal. The total tonnage of the Soo during the year 1897 was 16,500,000. The tonnage of the Suez canal in 1896 was 7,000,000. And the tonnage of the Soo does not by any means represent the entire commerce of the Great Lakes ; it is only a portion of it.

"The commerce of the lakes passing to the scabard by the Eric canal is of the greatest importance. Every loaded boat distributes something to add to the business

of the state as it goes along its course. "The receipts at the Buffalo Custom House for 1897 show a great advance over the previous years and the value of the exports exceed the value of the imports by exports exceed the value of the imports by \$1,663,450. The value of the exports for the year was \$6,116,957, against \$3,919,341 in 1896 and \$4,407,977 in 1895. Importa-tions during 1897 were valued at \$4,453,477, against \$2,916,416 in 1896 and \$2,760 for the against \$3,316,418 in 1896 and \$3,720,921 in 1895.

"The number of vessels of all kinds which entered the harbor during the season was 11,563 or 243 more than in 1896, and the

tonnage reached the enormous total of 11,-581, 858, which exceeds the phenomenal record of 1896 by 277,116 tons. These ligures fix the rank of Buffalo among the commercial ports of the world as fourth. It was a matter of dispute last year whether the city was entitled to fourth or fifth rank.

"It is of the greatest importance, there-fore, that the Erio canal should be prepared to meet this great flow of commerce which is centering at the harbor of Buffalo. The benefit to the state at large is very great. The traffic amounts to more than the mere passage of so much produce through the state. It is the money expended for necessary supplies by those who handle it. This money is dropped along from place to place, and in the aggregate it amounts to thousands of dollars. A good year for the canal men is a good year for the state."

Mr. R. P. Rothwell, editor for the Scientific Publishing Company, New York, has sent us advanced sheets of "The Mineral In-dustry, its Statistics, Technology and Trade" which will shortly appear, and which, we are assured, he the most comprehensive and accurate statistic of the mineral production of the United States ever yet published. These statistics are used by European Governments in their official publications. We shall have occasion at an early date to reproduce some of the important facts set forth in this most valuable hook.



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