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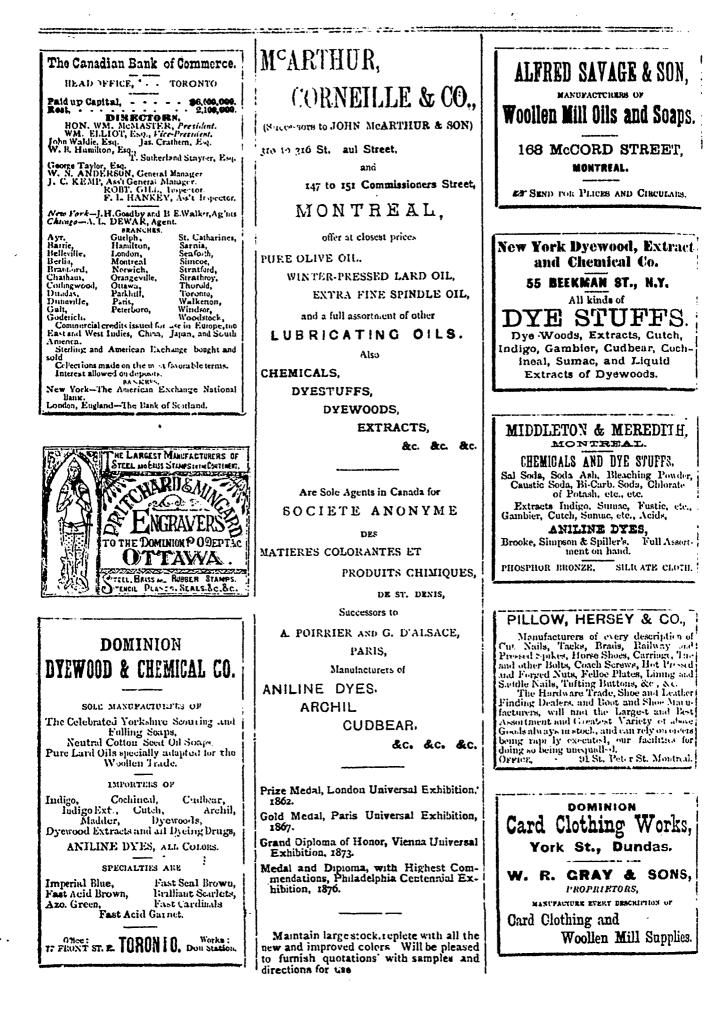
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# TORONTO, ONT., MARCH 4, 1887.

No. 5.

### THE POLITICAL SITUATION.

"Public opinion is the mixed result of the intellect of the community sting upon general feeling."—William Hazlitt.

 $T_{\rm HE}\ exact$  majority which the Conservatives can claim as a result of the late general elections is still a matter of contro-Versy in the party press, but that Sir John Macdonald has secured a sufficient majority to carry on the Government is generally conceded, with the solitary exception of the Toronto Globe, which is causing considerable merriment by its silly contention that the Liberals are in a majority. Our own impression, after a careful summing up, is that the first division in the House will show a Conservative majority of at least twenty, which is likely to be increased before the end of the session, as there is every probability that several of the French members, Now claimed by the Opposition because they bolted on the Riel question, will return to their first love when they see that Sir John is able to retain power without them and that they do not **bold** the key of the situation. Notwithstanding the Riel agitation in Quebec, the secession movement in Nova Scotia, and the disallowance question in Manitoba, the fact remains, and is indeed admitted on both sides, that the National Policy was the paramount issue in the campaign, and the sequel has proven that "the mixed result of the intelligence of the community acting upon general feeling" was the defeat of the party which had always been identified with the policy of approximate free trade. Nor is this to be wondered at ! Mr. Blake's apparent conversion was too late to be accepted as thoroughly sincere and free from the charge of political exi-Sency, and whatever effect it may at first have had on such **Manufacturers** as were disposed to be friendly to his cause, was completely nullified by the unequivocal denunciation of our protective policy by Sir Richard Cartwright in his speech at Weston on the evening of Feb. 11th, only ten days before the country was called upon to make its choice of parties at the

As this is the third time the people have endorsed the National Policy, we trust that ample protection to native indus-true try has become an established political principle in Canada and that Protectionists will not again be called upon to take up Arms in its defence, and we shall watch with more than ordin-Ty interest the criticisms of the Government's tariff resolutions, which may be indulged in by Opposition members of Parlia-Before those most nearly interested—the manufacturers and the workingmen-can feel that their interests are equally

Cartwright to publicly announce a cessation of hostilities, and solemnly aver that the National Policy, in its integrity, shall not suffer dismemberment at their hands should they ever grasp the reins of power. We can easily imagine Sir Richard quoting

> "O, woe is me, To have seen what I have seen, see what I see."

But unless we mistake the signs of the times he will have to adopt such a course as suggested or be repudiated as not voicing the sentiments of the Reform party.

Next to the tariff issue, perhaps the Globe may be credited with contributing to the success of the Conservatives The general conduct of the organ in this Province. during the campaign was simply a disgrace to journalism, and thoroughly disgusted the more intelligent of its own party. Calm and dispassionate argument, befitting a great daily paper, paper, had no place in its columns. Reasoning gave place to scurrility, discussion to wild and unsubstantiated charges of corruption and criminality, and admitted facts were freely distorted in a dishonest endeavor to mislead the electorate. Such disreputable tactics have met with a fitting rebuke, in so far as many prominent Reformers have risen in revolt, and if there is any truth in the proverb that "misery loves company," we suggest to the editor a perusal of Wordsworth's pen picture of Peter Bell, one verse of which reads as follows :---

> " There was a hardness in his cheek, There was a hardness in his eye, As if the man had fixed his face In many a solitary place Against the wind and open sky."

### THE INDUSTRIAL LEAGUE.

Now that the contest is over and the smoke of battle is clearing away, the important, in fact the all important part that the National Policy played in the recent clash of political parties, is realized on all hands. Before the event a section of the Reform party in this Province stoutly maintained that Protection was not an issue, whilst another section of the same party, in the Maritime Provinces, were just as assiduously contending that a return to a Revenue Tariff would result, in the event of Mr. Blake being called upon to form a Government. The great divergency of opinion on the one hand and the complete unanimity on the other, on this question, was a matter for serious consideration by manufacturers and others favorable to the fostering of home production, and early in the year, to he hands of either party, and that protection has ceased number of Ontario's most prominent manufacturers met to to be a Political dividing line, it will be necessary for such old gether in the office of the CANADIAN MANUFACTURER, and Political dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, it will be necessary for such old getner in the onice of the second dividing line, with the second dividing line, it will be necessary for second dividing line, with the second dividing line dividing line, second dividing li doing battle for the conservation of a policy which has now been thrice endorsed by a large majority of the people of this country.

The part taken by this organization in the late contest is now a matter of history and its plan of campaign was the publication of tariff literature for free distribution, the dissemination of cartoons and lithographs exemplifying in a telling manner the benefits of Protection to the community at large, and by holding, under the auspices of the League, a series of public meetings at which the National Policy was, in each case, the principal theme for discussion.

That the efforts of the League were not ineffectual, is just | cause for congratulation, and the election returns, from the cities in particular, have shown that the arguments submitted for the consideration of those whose votes were to decide the question "shall the National Policy be maintained," were not without weight. Regarding the influence of the League in this city and elsewhere we quote the Toronto Daily News, which says :--

"The Conservative party was wise in choosing the National Policy as their chief issue. No doubt this cry, artfully separated from politics by 'Industrial League meetings and cartoons, carried the Torontos.' \* \* \* The same methods in other constituencies had the same effect."

To the president of the League, Mr. W. H. Storey, the treasurer, Mr. Charles Knees, and to Messrs. George Booth, John F. Ellis, Edward Gurney, Samuel May and W. K. McNaught, the executive committee, the thanks of manufacturers generally are due. These gentlemen devoted a great deal of time to the cause in which their energies were enlisted, a cause which has once again been vindicated at the polls, and a cause which was presented to the public in the fairest possible manner, and without either equivocation, suppression of facts, or misrepresentation.

Their labors are now concluded, and it is to be hoped that the question at issue has, once for all, been definitely settled. The producing interests of Canada have shown such wonderful development since 1878 that the credit and prestige of the country would seriously suffer were they tampered with by socalled modifications of the tariff.

In defence of their interests the manufacturers were forced to fight; the fight is now over, the hatchet is buried and will remain buried unless the gauntlet be again thrown down.

### PRISON COMPETITION WITH FREE LABOR.

A FEW weeks ago the editor of this paper had occasion to contradict a statement freely circulated in the Grit press, charging that the Dominion Government were still allowing convicts in the Kingston Penitentiary to manufacture goods which came into competition with like goods, the product of free labor. Our contradiction was unchallenged until the Saturday previous to polling day, when the Toronto Globe, with dishonest intent, manufactured and published the following "roorbach" which we reproduce in full as a fair sample of the Globe's editorial talent :---

"Mr. Frederic Nicholls, the delightfully non-partisan secretary of the so-called Canadian Industrial Association, has issued a circular designed to show that the Tory Government have not allowed prison labor to come into competition with futed the statement which appeared in the London Advertiser,

free labor. Young Mr. Nicholls appears to grow more rash as the campaign progresses. He has displayed a recklessness in elevating this subject into prominence which his political friends must deplore. As an invitation to the workingmen to return to their allegiance to Sir John Macdonald it will not entice.

"Young Mr. Nicholls first quotes Mr. James G. Moylan, Inspector of Dominion Penitentiaries, to this effect :-

"'The only boots and shoes made at the Kingston Peniten tiary are those made for the use of the institution. None whatever are made for the outside market.

"To this statement Mr. Nicholls adds the following:-"'The public are reminded that \* \* \* the Dominion

Government have done away with prison labor in such institu tions as come under their control.

"But, unfortunately for young Mr. Nicholls, the report for 1885 of Hon. J. L. D. Thompson, Minister of Justice, convicts him of gross misrepresentation of the facts. On page 10 of this blue book there is a statement of the number of convicts at Kingston and the work at which they are employed. Here are some of the items :-

Work.	No. Employed.
Carpenter shops	. 33
Stonecutters	
Tailor and shoe shops	71

"Does young Mr. Nicholls contend that 71 tradesmen required to produce boots, shoes and clothing for less than 500 convicts?

"Then on page 13 of Mr. Thompson's report appears a tab ulated statement of the value of the goods produced, exclusive of the cost of material for the year. In the tailor and shoe sheps the value of the labor alone was \$5,119.60. At the low price at which the convict labor is rated, it is estimated that this represents a complete product of \$20,000. Mr. Moylan officially reports that the cost of clothing in all was but \$5,488.09.

"On page 7 of this same blue book, under the heeding, 'The Dominion of Canada in account with the Kingston Peni tentiary for the year ending 30th June, 1885,' the first item is, 'By convict labor, \$9,862.36.' On the opposite side of the page appears a statement of the various monthly drafts sent to the Minister of Finance, showing that the Dominion derived in revenue from the penitentiary no less than \$10,929.67. was at St. Vincent de Paul, Dorchester, Manitoba and British Columbia.

"The total value of labor, exclusive of material, on work done in the Kingston Penitentiary for the year ending June 30, 1885, was \$51,837.52.

The value of the product of the convicts engaged in the trades above quoted, after deducting the cost of material, was \$41,446.42.

"And young Mr. Nicholls states that the Dominion Gov ernment does not permit prison competition with free labor.

In reply to the above charge of gross misrepresentation we wrote a short but concise defence, but the Globe, in order sustain its well earned reputation for unfairness, refused of give it insertion, although the mere fact of being convicted of one extra campaign lie more or less, could not possibly have drawn upon itself much greater discredit than by common consent it is now awarded.

It will be observed that in order to refute our statement, which was made on the authority of the Inspector of Peniten tiaries, the Globe quotes from the blue book of 1885, but which in reality deals with the year 1884. We did not claim that the Government never employed convicts or allowed them be employed in making goods for general sale, but simply

that boots and shoes were now being made at the Kingston Penitentiary for the outside market. The Globe knew that this contention was unassailable, but in a frantic attempt to mislead the less intelligent of its readers it resorted to gross misrepresentation ; in the vain hope that, out of evil, good to the Grit party might ensue. We now reiterate the statement that no goods whatever, made in any penitentiary under the control of the Dominion Government, are allowed to come into competition with free labor, and challenge criticism on this Point: and at the same time it may be as well to draw attention to the fact that the Mowat ministry in Ontario are farming Out the convicts in the Central Prison to contractors who are thus enabled to turn out at a cheap rate, immense quantities of such goods as brooms, washboards, churns, childrens' sleighs and waggons, and numberless other articles of woodenware, the production of which would otherwise afford protitable employment to a large number of honest workingmen.

## PROGRESS FROM POVERTY.

"PROGRESS AND POVERTY," says Henry George, meaning thereby that the world, notwithstanding its wonderful progress, or, perhaps, even because of its progress, is all the time Betting poorer. To this view Mr. Edward Atkinson, of Boston, one of the most eminent among American statisticians and economic writers, decidedly objects. On the night of Tuesday, the 15th Feb., Mr. Atkinson, by invitation, addressed the Nineteenth Century Club of New York on "Progress from Poverty," which he holds to be a truer designation of what is now going on than the expression coined by Henry George.  $H_c$  said he did not share in the apprehensions of some people over these troublous times. If the labor element were half as dangerous as it was pictured by some our cities would have been destroyed twenty years ago. Mr. Atkinson compared a stone axe from thirty feet under a glacial drift at the mouth of the Delaware with a modern 50-cent hatchet, and said that the prehistoric man with the stone axe was a greater capitalist compared to the man who had none than any capitalist of today. The prehistoric capitalist kept his capital to himself; the modern capitalist could only derive benefit from his capital by sharing it with others. More than 90 per cent. of the People in this country (the United States) were in substantial equality as regards food, fuel, clothing and shelter ; the greatest disparity was in their control of their time. There was more capital to-day than men capable of using it; the capital of to day was what was wasted twenty-five years ago. Railroad managers were hard-worked and were public benefactors. Last year an average of forty-two pounds was carried by railroads 112 niles to each man, woman and child in the country, and the lecturer preferred that Mr. Vanderbilt should carry this than to carry it himself, even if Mr. Vanderbilt made \$100,000 by it; it would be cheap at that. As for Congress going out of its prescribed course to regulate railroads, it would better first try regulating the bakeries and butcher shops in the District of Columbia, and possibly it might in time learn how to regulate railroads. Development of the individual and education of the young were the only remedies for socialism. Compulsory labor had been abolished, and intelligent men would not now submit to it-as soon as they found it out.

Every labor organization would ultimately become a common school and a school of social sciences. There was no cause for fear in labor matters; men were in the initial stage at present, and all would come out well.

Mr. Atkinson, in conclusion, reviewed the history of the country from 1860, and showed by diagrams how in that period diminished prices and profits had gone hand in hand with higher wages and less cost of production. Experience showed that the great remedy for Socialism was the development of the individual and the education of the young. Labor was fast learning that diminished profits and prices went hand in hand with higher wages and lower cost. The earning power of capital had decreased since 1860 from 8 to 4 per cent., while labor's condition had improved. The very poor were not more numerous than formerly. In the organization of labor was found an attempt to equalize the disparities of modern conditions. High wages were the corelative of low cost. Pauper labor was to be feared only by those of pauper intelligence. "Never," said he, "has there been such progress from poverty to welfare as in the past few years of business depression, which began in 1873. I have investigated fifty arts for the period from 1860 to the present time and find the same conditions -higher wages, lower cost, diminished profits and increased production, Henry George's theory, if carried out, would help the poor man little, and it can't be carried out."

# TRADE WITH AUSTRALASIA.

WE have recently received a letter dated at Sydney, N.S.W., from Mr. Alexander Woods, Agent-General from Canada to Australia, and as it refers to a matter of interest to some of our readers, we quote the following extract :---

"From information which I have acquired en route or since arrival I have no cause to change my opinion in believing that we can do a good and profitable trade throughout these colonies in many lines. The parties most interested, however, are causing much delay ... I mean our Canadian manufacturers, some of whom have neglected to forward samples as promised : but no doubt when we have done some business and shown the possibilities of this country as a market, we shall be crowded with samples. In the meantime 'first come, first served,' and no doubt tirms who have suitable lines here first will secure the best connections."

Manufacturers are aware that Mr. Woods was appointed by the Government to promote the commercial interests of Canada in the Australian colonies, and any manufacturer is at liberty to make use of his services without charge other than the payment of freight on any samples he may send for exhibition in the showrooms that Mr. Woods will open in Melbourne, Sydney, and other antipodean cities for the purpose of displaying Canadian goods, and endeavoring to create a demand for such as prove suitable and meet colonial requirements. Mr. Woods will also furnish any manufacturers, so far as lies in his power, with any specific information as to prices, transportation, fashions, credits, etc.

The statistics of imports and exports show that the foreign commerce of the Australians is very large, and very few things are manufactured in any of the colonies with the exception of Victoria, which, under a protection tariff, has rapidly developed

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its industrial resources. The following are the figures for 1882, the latest at our command :----

Colony.	Imports.	Exports.
Victoria	\$ 91.237,536	<b>\$</b> 78,80 <b>6</b> ,052
New South Wales	103.564.619	81,353,091
Queensland	30.748.800	17,200,411
South Australia	32.643,450	26,083,905
Western Australia	2,475,856	2,837,442
Fasmania	8,131,299	7,725,029
New Zealand	41,897,013	32,401,195
Total, 1882	310,698,573	246,407,125
Total, 1881	256,603,518	235,387,451
Increase	\$ 54.095.055	\$ 11.019.674

From the above statement it will be seen that the aggregate value of the commerce of Australasia for 1882 amounts to the grand total of \$557,105,698, but it must be borne in mind that this amount includes not only the foreign but the intercolonial trade, which amounted to 37 per cent. of the import and 36 per cent. of the export trade, which, correctly tabulated, shows the following figures: —

	IMPORTS.	Exports.	Total.
Foreign trade Intercolon'l trade	8216,287,149 94,411,424	\$162,764,220 83,642,905	<b>\$</b> 379,051,369 178,054,329
Total	\$310,698,573	\$246,407,125	\$557,105,698

In order that some idea of the class of goods which find a market in the colonies may be arrived at, we re-publish from the CANADIAN MANUFACTURER of January 15th, 1885, the manifest of the ship *Coldinghame*, 1,059 tons, New York to Sydney, September 25th, 1885:—

Nine cases forks, 3 cases picks, 27 cases lawn mowers, 62 cases agricultural implements, 14 cases shovels, 262 cases axes, 29 cases scales, 24 cases nails, 74 cases machinery, 114 packages stoves and ranges, 224 packages hardware, 14 packages pumps, 1 wheel, 39 axies, 12 rims, 55 shafts and poles and 127 packages carriage material, 206 cases sewing machines, 1 case oars, 200 oars, 45 packages blacking, 325 packages woodenware, 27 packages tubs and pails, 104 packages handles, 53 cases chairs, 21 cases dry goods, 66 cases duck, 15 packages leather, 34 cases organs, 88 cases clocks, 181 cases lamps and glassware, 965 cases canned goods, 121 cases paint and varnish, 200 cases lobsters, 100 cases oysters, 13 cases strips, 71 hogsheads tobacco, 20 cases oars, 269 cases drugs, 650 cases spirits of turpentine, 9,125 cases kerosene, 49 cases lubricating oil, 208 barrels resin, 779 barrels plaster, 103 parcels of 1,000 slates, 14m. feet shelving, 24 pieces hardwood, 126 cases furniture, 12 cases saws, 37 cases bolts, 5 cases rubber, 44 cases tools, 5 cases brushes, 130 cases gasoline, 11 cases shade rollers, 16 cases guns, 8 cases books, 6 cases lasts, 10 cases cutlery, 196 cases fruit jars, 9 cases toys, 11 cases soap, 14 cases confectionery, 17 cases paper, 14 cases tinware, 400 cases corn flour, 500 cases beer, 600 barrels beer, 5 barrels skewers, 17 cases wringers, 177 packages axle grease, 54 packages plated ware, 21 packages tills, 11 packages photograph material, 12 packages cages, 44

Amongst the items of the cargo of ship *Beaconsfield*, 1,450 tons, New York to Melbourne, October 8th, 1885, are found :-2,521 cases axes, 125 packages carriages. 481 cases chairs, 189 packages wagons, 402 cases drugs, 473 cases glassware, 299 cases hardware, 54 cases plated ware, 163 cases sewing machines, 385 cases tobacco, 1,108 packages woodenware, 1,230 packages sundries, including 27 cases perambulators, 7 cases hose, 139 packages roofing material, 23 packages mast hoops, 819 packages box shocks, hair, sponges, cork, paper, and 92 reels barbed wire.

### THE ELECTIONS AND THEIR MEANING.

The result of the Dominion elections is a glorious triumph for the National Policy. So almost everybody says, or admits when pressed on the subject. But some there are from whom no such admission can be extorted—some who would rather admit *anything* than that the thing which they hate has gained the approval of the country. Sir John is sustained, they will say, but by a diminished majority. Which means that the Canadian people are turning against the N.P., and will soon kick it out altogether. But the elections, with their incidents and results all put together, tell a very different tale.

The most remarkable incident of the contest-and a very remarkable one it was, indeed—was Mr. Blake's change of front on the question of the coal and flour duties. After having for years maintained that these duties were wholly bad and injurious, and should be at once and forever abolished sans cere monie, he astonished the natives of this wooden country, and not a few naturalized immigrants besides, with the admission that after all there were certain reasons why total abolition would not answer. He therefore proposed that they should not be abolished, but only reduced. One exception he  $m^{ust}$ make, however; the duty on cornmeal would certainly have to go, he would not defend that by any means. At commeal he had decided to draw the line, and from that decision nothing should move him. Great leader of the Canadian Free Trade party !-- in the name of the prophet, Figs ! It will be admitted that the abolition of the cornmeal duty might, on the supposition of its being all paid by the consumer, mean several rows of pins per annum saved to the average Canadian family.

Beyond doubt Mr. Blake's change of front on the "odious coal tax and bread tax," heretofore so called, was the most significant admission yet made, from the other side, that the National Policy had public opinion at its back. For, remember that more than a few weak-kneed persons, who in the face of overwhelming public approval lacked courage to attack the system of Protection as a whole, and on principle – thought it a safe thing to keep spitting their trembling spite out against what they called the "coal tax" and the "bread tax."

It speaks volumes that Mr. Blake should have felt compelled to yield on this point of all others—exactly the point where the enemies of the N.P. thought it might most effectively be attacked. But the solid truth of the matter is that Mr. Blake had made the discovery that the farmers of Ontario would not hear of agricultural protection being abolished; and hence his remarkable turn-over at Malvern, in the East Riding of York and Province aforesaid, on Saturday, January 22, in the year of grace 1887.

tills, 11 packages photograph material, 12 packages cages, 44 crates dairy material, 10 boxes toothpicks, 114 doors and sashes. reduced, but altogether swept away, it would not have been

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because the country had repudiated the N. P., but from quite other causes. The N. P. was visibly Sir John's stronghold and tower of defence; but what danger he was in came from the Riel agitation in Lower Canada, and in Upper Canada from the Mail's attack on the Roman Catholic Church, while nine people out of ten believed that the Mail was still the organ of Sir John and the Dominion Government. That popular error is done away with now; but everybody knows that while it Prevailed it was a most serious danger to Sir John. The N. P. had one great victory in Mr. Blake's surrender on the coal and flour duties; and it will have another whenever the French People of Quebec shall vote a straight yea or nay on the single issue of Protection, unmixed and unconfused with any other. For our French fellow-citizens, Bleus and Rouges together-are at bottom Protectionists almost to a man. Years ago, when the Parti Nationale was formed, Protection was a principal plank in its platform. The adhesion of Ontario farmers to agricultural Protection, and the certainty that the French of both parties will support the N. P. whenever the straight issue comes before them - are two things that together go far to make the N. P. safe for the future, and to show that the country is for it and not against it. And this is one very sure and obvious meaning of the result of the recent elections.

### OUR CARD BASKET.

 $T_{\rm HE}$  following is a list of those who have favored us with a  $c_{\rm all\ since\ the\ date\ of\ our\ last\ issue}$  :

W. R. Smallpiece, of Messrs. W. R. Brock & Co., wholesale dry goods merchants, Toronto; Wm. Bell, organ manufacturer, Guelph; F. Crompton, of the Crompton Corset Co., Toronto and Berlin; S. Davison, manufacturer's agent, Toronto: J. Ironsides Thompson, manufacturer's agent, Toronto ; J. B. Carlile, of the Manufacturer's Life and Indemnity Insurance Co., Toronto: Frank D. Shallow, proprietor Moniteur du Commerce, Montreal; Ed. Gurney, stove manufacturer, Toronto; R. Mc-Kechnie, Dundas : Thomas Cowan, of the Galt foundry, Galt ; John Bertram, of John Bertram & Sons, Canada Tool Works, Dundas; James Goldie, miller, Guelph; James Kendry, manager Auburn Woollen Mills Co., Peterborough ; - Hardman, of Robin & Sadler, leather belting manufacturers, Montreal; Geo. Ingils, of the Geo. F. Blake Steam Pump Manufacturing Co., Boston : Thomas D. Beddoe, of the Hamilton Rolling Mills Co., Hamilton; A. Gartshore, manufacturer of iron pipe, Hamilton; M. B. Perine, twine and cordage manufacturer, Doon; J. F. Ellis, of the Barber & Ellis Co., Toronto; George Booth, coppersmith, Toronto: Charles Knees, Dominion Cordovan Tannery, Milton; Thomas McDonald, of Messrs. McDonald & Kemp, tin stamping works, Toronto; W. G. A. Hemming, of the Toronto Case Co., Toronto ; R. T. Wilson, axe manufacturer, Dundas: Geo. F. Cleveland, of J. L. Goodhue & Co., leather belting manufacturers, Danville, Que, Oliver Wilby, of the Weston Woollen Mills, Weston; W. H. Storey, glove manufacturer, Acton ; Frank J. Phillips, of the Cobban Manufacturing Co., Toronto: W. K. McNaught, Secretary American Watch Case Co., Toronto ; Peter Lawson, tanner, Port Dover; W. Millichamp, show case manufacturer, Toronto; H. E. Clarke, M.P.P., trunk manufacturer, Toronto, Samuel May, billiard table manufacturer, Toronto; James Morrison, brass founder, Toronto.

Literary Motices.

Bradstreet's, the weekly financial and commercial newspaper published by The Bradstreet Company, is now in its fifteenth volume, and is surpassed by none of the financial and commercial periodicals of this country or in Europe. In the fourteen volumes already issued can be found a greater diversity of original and carefully prepared matter- facts and figures -relating to business topics than in any other periodical during the same period. Nor is it surprising that it has reached and maintains this position, for it is owned and published by a large corporation with its cash capital and assets of over \$1,400,000, its nearly 100 branch offices, and its small army of over 1,600 salaried employés and 65,000 regular correspondents. This organization makes extensive investigations into industrial and other matters, gathers full reports of the condition and prospects of the leading crops, and reports regularly each week the condition of trade throughout the country, thus practically making Bradstreet's an authority as to the condition and prospects of the commercial world. It needs but a glance at the newspaper to satisfy any one that its publishers have been ambitious rather than avaricious. Files of Bradstreet's have become an acceptable and almost indispensable journal for progressive business men.

To remove keroscne from carpets lay blotters of soft brown paper over the spot and press with a warm iron. Repeat with fresh papers and the spot will be removed.

WHALES are not fishes. They have no sordes: they have warm blood; they give milk to their young, and finally, they would be drowned if they were to remain longer than half an hour under water.

THE Roman soldiers, who built such wonderful roads, and carried a weight of armor and luggage that would crush the average farm hand, lived on coarse brown bread and sour wine. They were comperate in diet, regular and constant in exercise. The Spanish peasant works every day, and dances half the night, yet eats only his black bread, onion and watermelon. The Smyrna porter eats only a little fruit and some olives; he eats no beef, pork or mutton; yet he walks off with his 800 pounds. The coolie, fed on rice, is more active, and can endure more, than the negro fed on fat meat. The heavy work of the world is not done by men who eat the greatest quantity. The fastest and longest-winded horse is not the biggest eater. Moderation in diet seems to be the prerequisite for endurance.

CONSIDERABLE interest has lately been manifested in a statement published by M. Villon, a French chemist well known for scientific research, that he has discovered an alkaloid poison of pronounced characteristics in decayed animal tissues. This poison is quite powerful, a dose of five centigrammes being sufficient to kill a dor. The interesting point in M. Villon's researches is the fact that, in his investigations, he applied tests to spoiled flour, because of the likeness of the gluten to animal fibrin, and in that way discovered the poisonous alkaloid. Spoiled and decayed flour has a peculiar appearance and a foul, caustic, pungent, bitter flour. It tasts hot and stinging, somewhat like pepper, according to the stage of decomposition. Dough made from it is also bitter to the taste and offensive to smell, and it crumbles in hot water and affects injuriously the stomach. Plagues have been attributed to the use of decayed flour, the great plague of 1802 in Rome being cited as an instance. Wheat flour spoils very easily, especially in the months between March and August, when a fermentation sets in that goes on through the succeeding months until the spoiling is complete.

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### W. R. BROCK & CO.

In the following short sketch it is our desire to present our readers with some interesting particulars in reference to a large wholesale establishment of high commercial standing, for the reason that Messrs. W. R. Brock & Company, the house referred to, were amongst the very first that cast prejudice to the winds and aided the development of home industry by purchasing and distributing the products of Canadian industrial enterprises. We do not propose to indulge in fulsome puffing, as the firm neither needs nor would desire it, but we have pleasure in recording a few facts that we have taken the trouble to glean. The firm was first established in 1877 as W. R. Brock & Bro., but since then two partners have retired from the business, withdrawing nearly half a million dollars as their separate interest, and the present firm as reorganized consists of Mr. W. R. Brock, the original founder of what is now one of Toronto's largest commercial enterprises; Mr. Andrew Crawford, the expert English buyer of the firm since its inception,

and Mr. S. J. Jermyn, the financial manager for many years past. When the country first divided in 1878 on the question of Protection or approximate Free Trade, and the people decided in favor of the National Policy, Mr. Brock's first impression was that the wholesale trade, which at that time was almost exclusively an importing trade, would suffer serious injury and loss, but as he was and is a thoroughly patriotic Canadian, he set himself to work to make the best out of what certainly appeared a gloomy outlook for his own and similar interests. The country having declared in favor of home industry, Mr. Brock decided to aid in its development, and as the means and the inclination were both forthcoming, the end has been achieved, and in a manner and to an extent that Canadian manufacturers will recognize and appreciate when they read the following. Prior to the development of home manufactures Mr. Brock's firm used to import from the United States alone upwards of \$120,000 worth of staple goods annually, but today this large import has been reduced to less than \$10,000, the difference, with a large increase, being entirely replaced West Territories. with the production of Canadian mills. But these figures only show the diminished quantity of imports in certain lines of American goods which have been displaced by our own. The sum total of purchases of Canadian manufactures by this firm reach annually the immense sum of upwards of \$700,000. Just think for a moment and realize what these figures really mean This one house, which does besides an immense importing business in such lines as are not made here, distribute amongst our various industries a sum of money that must materially aid in making many workingmen's homes the brighter and happier on account of wages earned through steady employment. The writer knows, too, that at times the firm must have almost faltered in their policy of well-doing. As might be expected, in the early days of a new industry, imperfections and shortcomings were neither few nor far between. When such diffi- and Mr. John S. Williams, also of New York. Mr. McAlpino culties arose, this firm—as a manufacturer not long since told us - did not ruthlessly condemn, but gave wise counsel and Williams has taken up his residence at the Queen's. friendly encouragement, and the manufacturer instead of losing heart would go home, try again, and as a result a better article, suited to the market and commanding a better price, would be produced. In addition to this Mr. Brock individually has showed his confidence in the future of Canadian industry by taking a moneyed interest in several factories, which, it is gratifying to learn, are all successful. In the tweed department may be seen the productions of every first-class tweed mill in the country, such as the Paton Manufacturing Co., Sherbrooke, P.Q.; Rosamond Woollen Co., Almonte : Cornwall Manufacturing Co., Cornwall : Cobourg Woollen Co., Cobourg ; Robinson, Howell & Co., Preston : Waterloo Woollen Manufacturing Co., Waterloo, and others. In staple cottons and knit only two others in the Dominion, Macdonald of Montreal, and goods the firm also buy largely of every representative Cana-dian manufacturer of these lines. In a cartain line of famous for the Billings, of Hamilton. Mr. McAlpine's New York dian manufacturer of these lines. In a certain line of fancy factory covers a block, and is one of the most extensive in the knitted woollen goods such as along boods guitars and him Without the Without the source of the most extensive in the knitted woollen goods, such as clouds, hoods, gaiters and kin

that Canada could never, or at least for many years, be able to compete with such centres as Leicester in England and Germantown in the United States, but to-day, as a result of the National Policy and the pluck and energy of some Canadians who had faith in their country's future, we are producing just such goods and laying them down side by side with those imported, those of Canadian manufacture gradually crowding out the foreign goods. In Messrs. Brock & Co.'s establishment hundreds of cases of such goods may be seen, and as long as Canadians can make them they will get the preference, and pity 'tis that more of our wholesale firms are not actuated by the same spirit. The capacious premises in which this house do their business are so well known to the trade that description is unnecessary, but we cannot conclude without reference to the managers of the several departments, as all of them. with one exception, are old associates of the firm, well known to its connection, and long intercourse has begotten such an esprit de corps between employers and employees and such good feeling amongst their customers that in this establishment the wheels of commerce run smoothly although incessantly. The staple department is presided over by Mr. Ross, the prints and tailors' trimmings by Mr. B. Croynn, dress goods by Mr. W. S. Green, imported woollens by Mr. T. W. Dixon, Canadian woollens by Mr. R. R. Davis. Mr. W. R. Smallpiece, an old traveller of the firm's, having a large connection, presides over the department devoted to the distribution of such goods as gents' furnishings, hosiery, gloves, fancy goods, haber dashery, muslins, laces, embroideries, etc. The following are the names of the firm's travellers, with their respective routes: Mr. A. R. Auld, Great Western and Michigan Central R.R.; Mr. R. W. Pentecost, Grand Trunk West and Wellington, Grey & Bruce ; J. E. Snider, Grand Trunk East and Welland district; Mr. S. M. Sterling, Lake Shore R.R. and Niagara district; Mr. R. H. Mitchell, Northern R.R. and C.P.R. north; Mr. H. Taplin, Ottawa district; Mr. J. H. Patterson, Grand Trunk R.R. west of Stratford ; Mr. W. Brock, Montreal and Maritime Provinces; Mr. T. Bennie, Manitoba and the North-

## A NEW TOBACCO INDUSTRY.

J. R. M'ALPINE, OF NEW YORK, ALL READY TO START OPERATIONS IN TORONTO.

### (Toronto World, Feb. 24th.)

SINCE Jan. 3rd last a fully equipped tobacco factory has been put together in the west end of Hay's unused factory, on the Esplanade. The work has been quietly but thoroughly exe cuted, and the factory is ready to start. A few samples will probably be made this week. The moneyed men of the concern are Mr. J. R. McAlpine, the great tobacco man of New York, has made several visits to the city since Jan. 1st, and Mr.

Mr. Williams, in showing the World through the new factory yesterday, said it was their intention to turn out a high grade of smoking and chewing tobaccos. What is known as "blackstrap" will be omitted. Cut smoking tobaccos, in packages and bags, so popular in the United States, will be specialty.

The reporter asked Mr. Williams what the capacity of the factory would be, and how many hands would be employed. "Our capacity," he said, "will be for all the business we can We will put up any amount of money if we can get busiget. ness for it." Six floors have been fitted up.

This will be the only tobacco factory in Toronto. There are dred articles, every manufacturer knows that it was prophesied Mr. Williams said, they surveyed the field very carefully. United States. Before deciding to begin operations in Toronto, THE CANADIAN MANUFACTURER.

# F. E. DIXON & CO.

MANUFACTURERS OF

# Patent Lap-Joint, Star Rivet

SOLF AGENTS FOR

Leather Belting

PRENIX BELT OIL

The Only Perfect Belt Dressing.

135

# $\mathbf{A}$

F. E. DIXON & CO.

I will make the leather more durable.

It will effectually prevent the slipping of the belt.

It does not affect the cement which holds the laps together.

It does not increase the stretching of the belt and thus render it narrower.

Y It makes the leather perfectly water-proof. Belts dressed with this oil can be and are run in places where the temperature reaches 160 to 175 degrees, while in the other extreme, we have endorsements from owners who run their belts in ice houses. Indoors or out, in any kind of weather, wet or dry, hot or cold; belts thoroughly dressed with Phœnix Oil will always run satisfactorily.

> 70 KING STREET EAST, TORONTO.

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SEND FOR PRICE LIST AND CIRCULARS. And our Latest Pamphlet on Belting.

......



TAKE NOTICE:---Our List of Prices for the DODGE PATENT WOOD SPLIT **PULLEYS** is for ALL SPLIT-PULLEYS. We beg you will note this fact when comparing our List with others which for SOLID RIM and NOT for Pullous in When it is the set of the set of

are for SOLID RIM, and NOT for Pulleys in HALVES.

# THE Canadian Manufacturey AND INDUSTRIAL WORLD.

Published on the first and third Friday of each month, by the CANADIAN MANUFACTUREE PUBLISHING Co., (Limited). 6 Wellington Street West, - - TORONTO.

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> EDITOR : FREDERIC NICHOLLS, Secretary Canadian Manufacturers' Association.

This Journal has won for itself an acknowledged position amongst Trade Journals and is recognized as the representative industrial paper of Canada. All the various features of the country are represented in its columns, and it has been for years the success of the Manufacturers. It now reaches nearly every mill and factory in the Domainion, and its influence is constantly increasing.

As a medium for advertisements of machinery, steam appliances, mill and factory supplies, etc., it is unequalled, and our rates will be furnished on application. Communications from Manufacturers, Exporters, and others, are respectfully invited.

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All Manufacturers are invited to become members of this Association. For Full particulars will be furnished on application to the Scretary

# Editorial Motes.

THE Dominion elections are over, and the victory remains with Protection and its defenders. But, as somebody has remarked, the National Policy never was in as great danger as it is now, in the hour of its greatest triumph. Next comes the task of meeting those enemies of the N. P. who seek to destroy it by a side wind-such as the Butterworth bill, for instance. In the number of the CANADIAN MANUFACTURER for Feb. 18 will be found the fullest statement that has yet appeared of the solid and substantial reasons which forbid the consent of Canada to Reciprocity with the United States-in manufactured goods. Reasons, too, which must always forbid-that is, as long as Canada remains a part of the British Empire. The Butterworth bill, and Canada's relations with Great Britain on one hand, and with the United States on the other. make now the foremost topic of the day, following the elections, as witness the daily papers at this time. And nowhere is the case so fully presented as in our pages. We continue the subject in the present number.

CERTAIN tables of "British Textile Statistics," one of them embracing the last three years—1884, 1885, and 1886, and the other going back to 1872—will be found worthy of being borne in mind for future reference.

It is said that there is a movement on the part of some of the heavy shoe manufacturers in Haverhill, Mass., to close their manufactories on or before the 31st of March. The general opinion is that the object in view is to establish free shops.

RECENTLY an influential meeting in England endorsed the actions of the silver party in Washington, and unanimously adopted a resolution declaring that nothing short of the free coinage of silver would support prices in the interest of the debtor classes.

THE Manufacturers' Gazette says that owing to the fact that the mints of the United States have stopped the manufacture of gold dollars these coins are commanding a premium of twenty-five cents in Boston. The manufacture of \$2.50 gold pieces has also been stopped, and these command a premium of five per cent.

ON Sunday last Mr. D. Ford Jones, late ex-M.P. for South Leeds, passed quietly away at his residence in Gananoque. Mr. Jones was well known as a public spirited manufacturer, and until late years always took an active interest in industrial matters. He first established the shovel and fork manufactory at Gananoque in the year 1852.

BULLETIN No. 1, respecting the Dominion Government Central Experimental Farm, has been issued from the Department of Agriculture. It is submitted to the Minister by the Director, William Saunders, F.R.S.C., F.L.S., F.C.S. Any one desiring a copy may secure one by sending name and address to the Experimental Farm, Ottawa.

THE Government has decided to make another effort to promote trade relations with the British West Indies. Tenders have just been called for asking for a list of steamships capable of maintaining a fortnightly service with the sister colony. Sir Charles Tupper is the promoter of the scheme in the present instance, and has officially announced that the Government is prepared to liberally subsidize any fast lines of earned the most money, because they had a better market and steamers selected for the purpose.

In the session of 1883 the first Democratic majority that the American Congress had seen since the beginning of the war went to tinkering the tariff, and among other things cut down the duties on wool and woollen goods. The change did not show very much for a while, but how it did show for the year 1886, as compared with 1885, may be seen in a statement as to "Tariff Changes and the Woollen Trades," which we copy on another page from the Textile Record.

THE twelfth annual meeting of the CANADIAN MANUFAC-TURERS' ASSOCIATION will be held in their offices, 6 Wellington street west, Toronto, on Wednesday, 9th March, 1887. The chair will be taken at two o'clock p.m. There will also be an evening session at 7:30, at which will be read several papers of great interest prepared by members, and dealing with live topics of the day. All manufacturers, whether members or not, are cordially invited to be present at the evening meeting.

It seems to be about time that a halt was called on the matter of so-called World's Fairs. A really genuine International Exhibition on a large scale, held in the capital city of some great country, about once in five years, is capable of doing much good in stimulating a healthy international rivalry, but when it comes down to the holding of two or three each year, the exhibiting class will undoubtedly cry, Hold, enough ! Preparations are at present being made for five or six so-called World's Fairs, to be held within the next two years.

ELSEWHERE we copy from the Trade Bulletin a short article setting forth the importance of Ontario's milling interests, especially in view of the large aggregate quite recently expended in changing many mills to the roller system. It should occur to our legislators at Ottawa that an interest employing so large a capital, and withal lying so close to that of agricul ture, should get at least fair play. And that we contend the milling interest does not and never will until the duty on flour is raised to 75 cents a barrel, to correspond with the 15 cents duty on wheat.

ONE of the neatest and brightest of trade journals is the Trader, published in this city, and edited by Mr. W. K. McNaught. It is published in the interest and is the recognized organ of the jewellery and kindred industrial trades of Canada; is issued monthly, and is sent free to every dealer in jewellery and others engaged in similar occupations. The trades it represents are not numerically so important as some others, such as the dry goods, hardware and grocery trades, but we are free to admit that none of them are so ably represented by any publication as are the jewellers by the Trader.

A COMMITTEE of Albany Knights of Labor who have made tour of the New England States investigating the wages paid by shoe manufacturers, with a view of making out a higher schedule of prices for their own work, encountered an unexpected obstacle. They discovered that the eastern prices were thirty per cent. below wages at Albany, yet the eastern men steady employment. The Albany Knights were about to demand thirty-five per cent. advance, but now they are pondering the question whether they had not better work cheaper, build up a market, and secure steadier employment.

IT is with much satisfaction that we note that the Ontario Government propose to abolish the custom of hiring out prisoners on the contract system. The work carried on at the Central prison, Toronto, displaces a large number of free workingmen who would otherwise find employment at similar work, and the Mowat Ministry will find that public opinion will sugtain them in their contemplated reform. The products of foreign prisons are now totally prohibited from entering this country. The Dominion Government has done away with the manufacture of goods for the outside market in the pententiaries, and if Mr. Mowat carries out his proposal to do likewise, a much vexed question will be finally disposed of.

CAN a country which protects its [manufactures] against articles of foreign production ever hope to sell any of its own in neutral markets abroad, where all competitors must meet on an equal footing? Here are facts that should help us to answer: During the past ten years the Baldwin locomotive works, Philaelphia, have made over four thousand locomotives, of which they have exported above nine hundred. Of these, fully seven hundred have gone to South America. They not only furnish engines to South America, but have supplanted English locomotives in New Zealand. They have sent many to Australia, to New South Wales, and to Queensland, where the sentiment, of course, is entirely in favor of English manufacturers.

IT now appears, says the Boston Manufacturers' Gazette, that since the signing of the inter-State commerce bill by the president railroad securities have advanced in value. inference drawn from this is that investors in such securities are becoming convinced of the advantages of governmental regulation, in a measure, of inter-State traffic. It is claimed that the short-haul and publicity clauses, if not interfered with by the new commissioners, would stop those sudden and violent fluctuations of rates that have marked the present policy of the railroad companies, and would tend to bring about that ideal system of transportation which Charles Francis Adams pictured as "at once reasonable, equitable and certain, per mitting traffic to flow and interchanges to be made just how and where the interests of buyer and seller dictate, never discriminating, rarely, and then only slowly, fluctuating."

DURING the past few weeks the Canadian newspapers have been bravely advertising to the world, the fact that we have in this country, a number of particularly well preserved specimens of the genus "boodler." But our cute neighbors across the line are bound to keep in the front rank, even in "bood-

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March 4, 1887.

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incident as one that beats all previous records :-" Cushier of Marine the commissioner, writing from Kingston, Jamaica, Baldwin, who wrecked the Mechanics' National Bank of Newark Junder date of 15th inst., states that he has already visited Just funcy the idea of a jail-bird making money out of con-would be adopted. Mr. Wylde added, as a result of his investracts in connection with the prison in which he was contined. Itigations, that two steamers of about one thousand tons regispoesn't that beat the Jews?"

before with the sage remark, in substance - that really there juext month. was a good deal to be said on both sides. And the same day the Mail claimed to be as too, a triend of British connection i the reparkable letter of "Onlooker," copied from the Mail.

'e National Policy. The people of a country do not care to ly taken as an organ of Commercial Union and Annexation. be told that they do not understand their own business, and that a policy which they have tried and twice endorsed is a blunder Jela crime. If the Liberal party will not adopt the National with many warm inlets on the floor line, and an outlet at the ceiling. Policy well and good-let it be so understood ; if they intend to bow to the will of the people it should be made clear that there is no room in the party councils for those who prefer to (decay, without increasing their weight. descrize in an opposite direction."

The Ottawa correspondence of the Meil of the 1st inst. Inre as follows solutions the following item in reference to the extension of our isteign trade relations :- "With the view of encouraging deser trade relations between the West Indies and Canada, the Ederal authorsties recently commissioned Mr. John F. Wylde,

ling" transactions, and an American paper records the following | bringing about this result. In a letter to the Deputy Minister to the tune of \$3,000,000, and who, after less than five years' Havana, Porto Rico, Santiago and San Juan, and reports that imprisonment has been released on a technicality, is reported (in all these places he found the merchants greatly interested in in the N.Y. Tribuca 'to have saved something out of the his mission. A meeting of business men of Kingston was to areck The same paper adds, that 'while in prison he made ; have been held the following week, when he anticipated that mover by partnership in contracts ' that is, prison contracts, resolutions in favor of closer trade relations with Canada ter could maintain a profitable service fortnightly between Halifax, Havana, Kingston and Santiago, at the same visae re-Brannoerry is now the question of the day, the Butter- ceiving good freight support. Scour communication, he conworth fail being its present moving occasion. On Thursday the cluded, was a great factor in bringing about a successful glab somewhat qualified its patriotic atterance of the day (arrangement. The commissioner will return to Canada early

WONDERS will never cease ! Just is the Mail has got itself as any one else, spite of all that it had said about com- fuicely fixed in the saddle of "Commercial Union" with the mercial amon .- Only, there is such a thing as ' manifest dess. States more properly called Annexation, the Globe comes out tiny," and for us to fight against it would be worse than useless. It oldly on the other side, and says that sentiment, and patriot-It will be seen that the CANADIAN MANUFACTURER is just in lism, and pride of connection with the Mother Country, must time with its mass of matter on the subject, begun in our last weigh something with Canadians, as well as the argument of sue and continued in the present one. See on other pages dollars and cents merely. Well, we welcome the Globe as a Mr Erestus Wiman's speech before the New York Board of new ally on our own side, which is that of the commercial infrade, which is quickly lost in the daily papers, but which in dependence of Canada as a part of the British Empire. or columns will be found convenient for after reference. Also [Still, we are sorry to lose the advocacy of the Mail, which must henceforth be regarded as working for the extinction of Canadian nationality, and the absorption of the Dominion is.to The Montreal Merald, a prominent Reform paper, admits the United States. However, the Globe, being an extremely that the National Policy was the paramount issue in the recent young convert, had better show its succerity by explaining a rester, and argues that had it not been for the contradictory little circumstance to which we drew attention in our issue of attenances of leading men of the Liberal party, they would Feb. 18th During the closing months of 1885 there appeared have had a victory to record instead of a defect. The follows pretty frequently, in the Globe's columns, its prospectus for ing put graph is selected from a recent Herald edition - "The 1886. Therein the principles which the paper would stand by country has now three times pronounced its opinion on the were set forth, and among the rest there appeared the follow-National Policy. Every speech delivered at that is another ing rather emphatic and unqualified statement :- "The Globe haf picked from the Liberal tree. If there are any leaders of advocates an estricted Commercial Reciprocity with the kindred the party who do not frankly and honestly intend to abide by people of the United States." Our new ally will much oblige the decision of the people they will do well to say so at once, by explaining what "unrestricted commercial reciprocity" that men may determine under which flag to range themselves. Incans, in plain English ; also wherein its own position on the flousands of Liberal votes have been quictly polled for Congquestion, as always understood by the public up to the date of stative candidates because of this quasi-economic criticism of March 2nd, 1887-differs from that which the Mail has recent-

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ESGLISH architects are advising that rooms should be provided

A BELGIAN textile manufacturer has devised a process for tanning textile fabrics which renders them waterproof and proof against

AMERICAN exports of breadstuffs and provisions in 1886 were in the aggregate larger than in 1885. The statistics for the two years

	1885.	1886.
Brendstuffs	\$129,690,137	8148,122,020
Provisions		86,044,251
10 4 3	2002 040 052	SPRI 160 971

fotal . retired Halifax merchant, to visit these colonies as well as meal and flour made from them, and under the head of provisions Headjacent Spanish Island and report on the best means of are included beef, tallow, pork, lard, butter, and cheese.

# Special Reprints.

### RECIPROCITY.

MR. WIMAN BEFORE THE NEW YORK BOARD OF TRADE.

THE QUESTION OF RECIPROCITY CONSIDERED-ADVANTAGES TO THE STATES-HOW IT WOULD AFFECT CANADA.

(Toronto Mail, Feb. 24.)

NEW YORK, Feb. 23.-Mr. Erastus Wiman delivered the following speech before the New York Board of Trade at the Hotel Brunswick :-

### SWEEPING AWAY COMMERCIAL BARRIERS.

Mr. Wiman said that the possibilities arising out of the freest commercial relations between the United States and Canada were worthy of the highest consideration. A period in the history of the two countries had been reached when it is possible that all the commercial barriers between them could be swept away. The time had come, the speaker believed, when it was feasible that the commerce of the United States could pervade the whole northern continent, and that, without let or hindrance, the development of the North-West, which has been so marvellous. and which, so far as the United States were concerned, had industry. The harvests of the sea have been but skimmed now almost reached its boundary line, would continue to contribute to the greatness of this nation. The development within the Canadian lines had gone forward with a rapidity quite equal to that of the United States. The growth in all material respects of Canada, in her splendid cities, in the extension of her railways, the improvement of her public works, and in the steady progress of all that goes to make up a great nation, made her to-day a very attractive field for the extension of business.

Have you realized the magnitude of Canada ? Its area covers 3,500,000 square miles, while that of the United States covers only 3,036,000 square miles. Canada is equal in extent to nearly the whole continent of Europe. It will be said that this is largely made up of inhospitable and unproductive regions. But the modification of the climate, through the influence of large bodies of fresh water, is sufficient to remove from it the reproach of sterility; till now its wheat-growing zone far exceeds that of the United States, and wheat was one of the most delicate of plants.

### PROPOSED RECIPROCITY.

If between that great country, possessing many advantages which this country does not possess-if between these two great countries a complete commercial freedom should exist, is it not a question which should receive the most thorough and the most impartial consideration ? As a sign of the attention which the matter was receiving, the bill as introduced in Congress by the Hon. Benjamin Butterworth, of Ohio, was referred to. That measure proposed a complete interchange between the United States and Canada of every product, whether natural or manufactured. It swept out of sight all custom houses, and, if made effective, would open up a new market among five millions of people for the United States. Without assuming any political entanglements, without undertaking any financial obligations, without adding a dollar to taxation, the operation of this proposal for free commercial relations would not only materially extend the consumption of the products of the United States, but it would place within cheapened access numerous products of Canada which the people of the United States needed. They not only needed them, but they could nowhere else get them to such advantage.

#### THE CANADIAN FISHERIES.

Take for instance the fisheries of Canada, which are the largest, the richest and the most accessible in the world. Twenty-five hundred miles of sea coast in the Atlantic alone, a ments, her boots and shoes, and all her other manufacture

distance almost equal to that from Cape Cod on the Atla to the remotest point on the Pacific--three thousand miles in the Pacific and inland seas-in all over five thousand five hundred miles of coast in a northern latitude, where the fish at its finest, is as much a national possession of Canada as are the prairies of Illinois or the forests of Maine. Fish food from the Polar regions, brought to these coasts by Arctic currents, affords a sustenance for countless millions of fish, destined in turn for the sustenance of human life. It is no wonder that Canada holds firmly to her vast fishing interests. The advantage which she derives from the bait which lines her shores, indented by numerous bays, is a geographical one. When you recall the fact that twenty-five per cent. of the cost of the ordinary fishing voyage is found in the bait, you will see how important an element it is. If this bait can be secured by dip ping it, as it were, from the Canadian shores of the sea into carts and small boats, its possession is like the possession seed corn or wheat in an agricultural community. To one's seed corn would be folly. To permit its sale to a conpetitor without some compensation or consideration is to g up the advantages of geographical location and proprietary This is not, rights as distinctive as any other national right. This is now however, the proper place to discuss this question. It is sim ply alluded to because it shows the advantages which would come to the United States if the entire fishing facilities of the vast coast line could be thrown open to her enterprise and Properly cultivated as they would be with open markets this vast country, and as a reward for American enterprise and the investment of capital and skill, the food products of the ocean could be quadrupled. The cost of sustenance of human life in all our large centres could thus be immensely decreased and coupled with the vast productive agricultural forces on the ranches and prairies this element could be drawn upon for large contribution towards the sustentation of human life at the cheapest possible rates.

### CANADIAN WHEAT FIELDS.

But aside from the fisheries of Canada, which are so rich and so vast, and the possibility of future development for the benefit of the United States, there are numerous other products which the United States might well avail themselves of. Take, for instance, the article of wheat, and recall the steady growth north ward of its production. Within the memory of most middle aged men the Genesee Valley, in New York State, was the great wheat producing region. Rochester was called the Flour City because of its once famous mills now idle. Then came Ohio, then Illinois and Iowa, but now, in these later days, the Production of wheat for export and for the sustenance of the people is confined largely to the northern regions, such as Minnesota Dakota, and even Montana. Has anyone yet realized with this northern tendency means, and how far it will affect in great Canadian wheat producing regions? Why it is that is Manitoba and the North-Western territories wheat is produced to the greatest advantage is found in two great facts, the first of which is that there are two hours more of sunshine during the summer months, owing to their nearness to the Arctio circle, than in any other region in which wheat can be grown. These two hours add immensely to the productive power of the region. Again, the depth of frost is such that it never quite leaves the ground, but with the strength and the length of sun's rays the exudation is constant, so that dry weather and drought lose half their terrors. With these and other advant tages recall the fact that the tages, recall the fact that there are yet three hundred and seventy-five millions of acres of agricultural lands to be brought into cultivation in the Canadian North-West, and that the wheat zone of Canada covers no less a space than one million two hundred thousand square miles. If in this tendency nort ward, and all these climatic advantages, there is found attraction in the wheat producing regions, surely if the United States can enjoy therein a market for her agricultural imple

and her natural products, without let or hindrance, or without why should she not do so? The rapid settlement of the North-Western States makes certain an equally rapid settle Bent of North-Western Canada.

#### THE HUDSON BAY RAILWAY.

An outlet, via the Hudson Bay route, for the railway system, which in the last two years has been used as a supplement to Canada Pacific Railway, is almost a certainty. With Winuper as near to Liverpool as New York, with an Inter-State Commerce bill, which in the United States disturbs and upsets ad revolutionizes the charges for transportation, the Hudson Railway is more likely to be built than ever before. Why hould not all this vast territory be made tributary to the Rowth and progress of the United States by breaking down if the barriers to commerce between them? But it is not in the barriers to commerce between them? and wheat alone, or in the regions of trade which produce them to the greatest advantage, that a temptation is offered to the trade and commerce of the United States.

### THE LUMBER INTERESTS

In the single article of timber and lumber this vast country voild receive an advantage far greater than on almost any other article. In Canada there are sixty different kinds of timber, and the forests of pine, of which there are nineteen Varieties, possess for the United States an attraction of the **Preatest** possess for the United States an attraction of the Maine and the Saginaw and of the treeless prairie lands of the West  $W_{est}$ West, and of the necessity and activity of building in the East, and of the necessity and activity of outside timber for the compare how inadequate is the supply of timber for the necessities of these localities. In British Columbia alone the lumber industries of that province will rise to immense importance. To have free access to the vast forests which  $C_{a_{nada}}^{\text{rortance}}$ . To have free access to the vest set of a particular set of the set o whatever, the best that the North American continent affords in the shape of woods, is to place within the grasp of the residents of the United States a facility and advantage of the greatest value. At present a twenty per cent. duty on Canadian lumber just adds so much to the cost of the creation of bomes. A freedom of commercial relations between the two countries would increase largely the possibility of every man whing his own vine-clad cottage, and changing from Comand his own vine-clad cottage, and energing monists and Anarchists men who were proud to own homes of their their own. But aside from fisheries, grain and timber, there Are numerous other natural products which this country needs.

#### NOVA SCOTIAN COAL FIELDS.

In the matter of Nova Scotian coals for the Eastern States. the matter of Nova Scotian coals for the Lasser. Not only in the state of the Eastern manufacturer are clear. Not oily in Nova Scotia but throughout the North-Western territories there is a possibility of the widest development of the there is a possibility of the windst the ter foot in thickness there are workable seams of from four to ten feet in thickness of the Rocky of the best kind of coal, and in the upheavings of the Rocky Yountains the highest grades of anthracite are reached within the  $\alpha$ . British Columbia coal is the Canadian border. So far west as British Columbia coal is  $h_{DW}$  Lundian border. how being shipped at the rate of three hundred thousand tons ber and shipped at the rate of three hundred thousand tons Per annum to San Francisco, where it commands the highest price  $\mathbf{p}_{ice}^{aunum}$  to San Francisco, where it commands and include the second secon ed details show great riches in the coal-producing territory, which ought to be available to the United States by breaking  $d_{0wn}$  is and Canada. Not the last commercial barriers between it and Canada. Not the least of the advantages which would result from a free by mercial relation would be the development of Canadian phosphates, which of late years have attracted a good deal of from five thousand attention. The production has increased from five thousand tons in tour hundred tons in 1877, to twenty-five thousand tons in 1885 m 1885 There is nothing which the South so much needs as the tertilizing forces which Canadian phosphates, properly treated, vould a **volid furnish**. There are numerous other natural products but including copper and iron, which it is needless to mention, but including copper and iron, Which are available for development. Almost a continent of Produce: productive power, possessing more than the ordinary natural 70

advantages, is available for American enterprise, American capital and American trade, if but the magic touch of Freedom and a free market is afforded to it.

### RELATIVE ADVANTAGES.

It may be urged that the advantages to the United States will not be so great, from a complete freedom of commercial intercourse, as they will be to Canada. Well, we cannot tonight go into a question of book-keeping. It is sufficient to know that Canadians themselves do not think that the advantage would be on their side. They have some considerable development in manufactures which not a few of them consider would be severely competed with by the skill, capital and enterprise of competitors from the United States if the local market were open to them. But these manufacturers, no doubt, would be willing to take their chances. With the frugality of their workingmen, their industry, the advantage of natural resources, great water-powers and other facilities, they would try to hold their own. But it would be an even race, a friendly competition, which the manufacturers of the United States are certainly not afraid to encounter, if their Canadian brethren across the border are willing to take the risk. There are many products there which might find a market here. It would be an advantage to the people if such could be the case. It would be an equal advantage to manufacturers here to have a market such as is being developed, and in the next fifty years will be developed, in the regions to the North-West. It is true that complete commercial freedom between the United States and Canada would not be popular among English manufacturers. To tax goods of the Mother Country at a high rate, and yet let the products of the United States come in free, would seem a poor reward to the Mother Land for all the costliness, the anxiety and the risk which she had hitherto encountered; but if a great advantage could be secured to her offspring by a commercial alliance such as is proposed, surely England will not exact so great a sacrifice as it would be to forego the offer. There comes a period in the history of every nation, like that in the experience of every business man, when a change in relations opens and broadens opportunities for advantage to employés or connections, when if selfish considerations intervene, great injustice is done. Canada is working out its own destiny of self-government English laws, English language, English literature, and loyalty to English institutions pervade it completely and entirely. That it should forever remain disassociated in a commercial point of view from the great nation on its borders seems unreasonable. If at this juncture in affairs a complete commercial freedom could be created between the two countries, while many in England might oppose it, a popular vote in England would certainly confirm it. It might be a difficult thing to accomplish, but not an impossible one; and Canada is so far grown, so far independent, and so far self-reliant that a refusal to permit her to avail herself of the advantages of the vast market which the United States affords, and to become enriched by a closer contact with this glorious Republic, while still maintaining her loyalty to the British throne, would be an act of such injustice as might materially lesson the loyalty to that throne. Viewed, therefore, from both a British and Canadian point of view, there seems no sufficient barrier to prevent the carrying out of the proposition that complete commercial freedom should exist between the two countries.

### CANADA'S DEBT.

It is true that Canada has a vast public debt in proportion to its population. It is equally true that that debt has been created by rendering accessible almost a continent of productive soil. Some other mode of taxation than that of duties on importations might have to be adopted, but the fact that the markets which the United States afford could be freely opened for her natural productions would develop with such rapidity the vast regions which these expenditures have opened up that Canadians would, no doubt, gladly submit to taxation in different forms to make up for the loss of revenue now levied

upon imports from the United States. Of course there are to us offering friendly relations and free trade with one has difficulties in the way of a proposition for complete commercial and active hostility and non-intercourse with the other, intercourse, but they will disappear as they are approached; will Canada accept? To ask this question is to answer it and if the New York Bourd of Turde and other libour loss the libour loss the state of the sta and if the New York Board of Trade and other liberal com- Government could last six months in this country that would mercial bodies entertain favourably the idea : if it is made the mercial bodies entertain favourably the idea; if it is made the prefer retaliation to reciprocity. If Congress would only it is ballowed that are the prefer retaliation to reciprocity. subject of discussion and investigation, it is believed that good the Butterworth bill the thing would be accomplished, for it results will follow. No better mission can a man have than to just what every Canadian province needs. enlarge the boundaries of commerce. Next to increasing facilities for its accommodation, the creation of new markets, the enlargement of resources and the solidifying and building up of the commerce of the country is an object worthy of man's highest powers. That this can be accomplished in a greater degree by the proposed breaking down of commercial barriers to the north is as clear as the noonday sun. The bill of Mr. Butterworth, therefore, is full of interest, and though there is no immediate hope for its passage, its scope and results may well be discussed. Comparing it with the bill of Mr. Belmont for retaliation and non-intercourse, is like comparing light with darkness. The Butterworth bill partakes of the spirit of the age, enlarged commercial freedom, a liberal treatment, a self-reliant attitude and a comprehensive policy. Mr. Belmont's bill for retaliation and non-intercourse partakes of the dark ages, when by force and pressure treaties were wrung from dependent nations, and natural advantages possessed by neighboring nations were seized regardless of consequences. As between these two measures the public will judge, and I venture to predict that if the facts were properly put before the great American public, a popular vote to-day among the fair-minded, liberal, enlightened merchants of the country would be ten to one in favor of commercial freedom between the countries on this continent.

# THE IMPENDING REVOLUTION.

### (To the Editor of the Mail.)

SIR,---Your estimate of Sir John Macdonald's difficulties and of his majority this morning is so fair and corresponds so closely to the estimates made by other well-informed observers, that the Canadian public will do well to take it into careful consideration. There is a revolution impending, and refusing to see it will not avert it. The "National Policy" has been affirmed by this election, but the "National Policy" was never in greater danger than it is at this moment.

The tisheries dispute is reaching an acute stage, and in one or other of these directions a remedy will be found. The British Government, in order to keep clear of international at cheaper rates. Employers, while they are as a rule ready to take their P. to complications with the United States may explicit in the state of the states of the st complications with the United States, may stultify itself and sacrifice us by requiring us to surrender to the United States, without any substantial equivalent, the privileges of which we deprive the United States fishing vessels under the treaty of 1818. Or the United States Government may adopt a policy of commercial retaliation in order to punish us for our enforcement of our fisheries laws. Or, lastly, the United States Government may offer us complete reciprocity of trade in return for complete reciprocity of fishing privileges. I see no other possible settlement of the dispute.

Which of these methods is, from a Canadian point of view, to be preferred ? Of course we cannot consent at this day to being sacrificed in the interests of England, and there is no reason why England should ask us to do so. If anything of and applying it to themselves before they engage in a not that sort is proposed the Canadian (lovament that is in a source of the condian (lovament that the condian) (lovament the condian that sort is proposed, the Canadian Government that is a party to it will have a bad time of it.

What about retaliation ? Such a policy would irritate and injure the Canadian people, and it would equally irritate and injure a large proportion of the people in the States adjacent to Canada. It would do no good, and would be adopted simply as a means of coercing us into granting the privileges asked for by United States fishermen.

and fishing privileges, as you have so ably pointed out. But merce bill. No one could openly oppose those clauses in the true bill.

The chief difficulty in the way is the implied discrimination against English imports, but if England consent to that in it interest of peace, why should we made any trouble about it The true "National Policy" for Canada is to promote her own interest, without references to the state of the state interest, without reference to the interest of either Great Britain or the United States. If it is to our interest to the fisheries dispute by means of a treaty of free trade, let do so; but let us, whatever course is taken, act independently and for Canada and for Canada. Yours, etc., ÓNLOOKER.

TORONTO, Feb. 23rd.

## SOMETHING FOR KNIGHTS TO PONDER.

THERE is one feature of the recent unsuccessful strike freight handlers and longshoremen which cannot be too ously considered by those who were plunged into the idination movement through their belief in Mr. Powderly's dictum "an injury to one is the concern of all." It is estimated the fully 4.000 of the strikers who were working before the trouble are now idly patrolling the streets in search of employment This means, of course, hardship to be endured by them and their families while at their families while their enforced idleness lasts, but it meno far more than this to these deluded followers of Powderly means that 4,000 new men, who were incapable of competing with them for labor 1. with them for labor before the strike, have been partially profit in to do their work, that some of them are as competent already to do it as the atto do it as the strikers, and that all of them will be fully trained in what little skill is required properly to stow a very in a very short time. The strike has resulted in this case in instabout doubling the strike has resulted in this case in the strike has resulted in the strike h just about doubling the supply of available men to do the work along shore just as the Third-Avenue Railroad strike result in adding to the supply of experienced car drivers and diminished by it much the ished by it much the prospect of a successful contest with reilroad employers in the future.

This is a feature of strikes which is seldom thought of by the engaging in them, but it is in reality the most alarming real so far as workingmen are concerned. The main cause operates to give reason for complaint to laborers in the reduction of wages is the surplus of men able and ready to take their place at cheaper reter. engage the cheapest labor, the quality being equal, are not ready to engage the cheapest labor, the quality being equal, are not ready to engage green hands in any great number and submit to the annovance of the submit to the annoyance of having to teach them their duties. for this the field of unskilled labor would be far more exten sively overstocked than it is now, and wages would decr The 'longshoremen and freight handlers proportionately. however, by this last strike have forced employers to create is supply for the demonder is the supply for the demand which they would not meet, and of result is an addition to the result is an addition to the ranks of this class of laborers about 4,000 men who have learned the business and now hold the places which the studies a the places which the strikers vacated. Knights of Labor canpol spend their idle moments to better advantage for a while than by nondering open 11 than by pondering over this immutable law of cause and effects strike upon such baseless grounds as those which precipitated the last disastrous failure.-New York Paper.

# FAIR FREIGHT RATES FOR ALL.

### (New York Times.)

It was the notorious abuse of power shown in unjust discriments ination as regards freight rates that served as the cleared The true solution of the problem is reciprocity of both trade and strongest argument in support of the Inter-State the how is this to be brought about ? If the American people come bill which forbade that unjust discrimination which had been

the should be the enrichment of favored persons and the about thirty large oil mills in the cotton belt. We venture to pression and ruin of their rivals in business. Now, when be bill has become a law, railroad men who assert that the meaning of certain other provisions of the law is not clear adbit that the clauses relating to discrimination are so plain that there cannot be two opinions about them.

The beneficial effect of an enforcement of the law forbidding bineficial effect of an enforcement of the symplectic who familiar with the extent of the abuse for the suppression of which the discrimination clauses were enacted. The evils of the discrimination clauses were characteristic and bear of the history of the mination can be shown most forcibly in the history of the settle and bear the standard Oil Company and of the trade in cattle and beef, by they have been felt in many other branches of industry commerce. The great Standard Oil monopoly was built by means of discrimination in freight rates. Without the a supplied by railroad companies the Standard Oil Company onld not have crushed independent refiners and given to its hand agers the enormous fortunes that are now being used in other states of the enormous fortunes that are now being used in In other fields for the suppression of fair competition. tighteen months the Standard Oil Company received from railthe companies \$10,000,000 in rebates. This great corporation vas not satisfied with a freight rate which was less than onethird of the rate exacted from a humble rival in trade. demanded in addition a large part of the money paid for transportation by that rival. For example, the proposition made to the Cleveland and Marietta Railroad Company, then in the band hands of a Receiver, G n. Phineas Pease, appointed by the Be-United States Circuit Court, was stated as follows by the Receiver's counsel :

"You shall make a uniform rate of 35 cents per barrel for al persons excepting the Standard Oil Company; you shall there are them 10 cents per barrel for their oil, and also pay  $t_{hem}^{ge}$  them 10 cents per barrel for then on, then 25 cents per barrel out of the 35 cents collected of other thins. thippers."

The Receiver's acceptance of this proposition, devised for the purpose of crushing George Rice, an oil refiner who had not thendered to the Standard, caused the court to dismiss him from office.

There will now be fair play if the law shall be enforced. Great monopolies in trade can no longer be built up and supported in this way. The day of discrimination has passed. The hancial success of the Standard Oil Company suggested the formation of similar combinations for the control of other pro $d_{ucts}$  by means of rebates and discrimination in rates. Not bog before the passage of the bill it was proposed that the **hand hand h** Portion to be called the Flour Trust. If this project had been carried out the great flour mills would have entered a pool, and an attempt would have been made by means of special freight freight rates, and all the other instruments used by the oil honopoly, to absorb or crush other mills, and success would have enabled one corporation to control absolutely the supply and pair the bill was passed, and and price of that great staple. But the bill was passed, and We have a staple but the bill was passed, and We beard no more about the Flour Trust. It now appears that the American Cotton Oil Trust, a corporation modelled after the Standard Oil Trust, and devised, it is said, by Standard Oil Trust, and devised, it is said, by Standard Oil Trust, and devised by formidable competition. Oil Capitalists, is to be confronted by formidable competition. The Cotton Oil Trust recently obtained control of about nine-tenthe tenths of the cotton oil factories, and with a capital of about 10,000,000 it proposed to monopolize the cottonseed oil industry would have been able industry. Under the old conditions it would have been able by max. Under the old conditions it would have been able the railroads to crush competby means of secret low rates on the railroads to crush competit means of secret low rates on the railroads to trush court of the here who would not come into the pool, or to drive them out of the here. the business. But under the new conditions it cannot ship its which at and competing factories must which the owners of independent and competing factories must The law will protect competitors. For this reason cap-talists have been encouraged to enter the field in opposition to the The law been encouraged to enter the field in opposition to the The law been encouraged to enter the field in opposition to the The law been encouraged to enter the field in opposition to the The law been encouraged to enter the field in opposition to the The law been encouraged to enter the field in opposition to the The law been encouraged to enter the field in opposition to the the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the the law been encouraged to enter the field in opposition to the law been encouraged to enter the field in the law been encouraged to enter the field in the law been encouraged to enter the field in the law been encouraged to enter the Trust. Despatches published yesterday show that an 00,000 is company with a capital of from \$5,000,000 to \$10,-000,000 is now in process of formation and that it will operate 72

say that this enterprise would not have been undertaken if the Inter-State Commerce Bill had not become a law.

In all probability the new law will serve the people by undermining the power of the beef trade combination which has maintained the old prices for beef in the centre of population, while the price of cattle on the plains has fallen one-half. It will operate for the benefit of numerous manufacturers and traders who have suffered for years by reason of secret rates given to rivals whose fortunes railroad companies desired to augment, or in whose business railroad officers were pecuniarily interested. In many ways it will insure to manufacturers and shippers that fair play without which honesty and industry are robbed of their just reward.

### CANADA NOT A MEAN OPPONENT.

### (St. Paul Pioneer Press.)

NOTHING which can be said on the other side of the line is as essentially idiotic and criminal as the vaporings of a portion of our press concerning the delights of a possible war. There can be no calamity equal, either from a material or moral point of view, to war with any nation or upon any grounds. And the foolish people who talk about taking Canada as a pastime, are of a class which should keep silent in public. As a matter of fact, if selfish and indiscreet politicians should ever force us into war, there is no combination of circumstances which could make it so disastrous as a dispute with Canada. In a fight with England we might have some hope of Canadian neutrality. But the people of Canada are as thoroughly united and stirred up on the fisheries question as our people can be. It is their fight and they know it. A glance at the possibility which belligerent-minded people suggest shows the United States engaged with England and Canada together. When we carried our other wars with England to a successful conclusion, Canada was practically a wilderness, without means of communication sufficient to render it even an effective base of operations for the British troops landed there. Yet, even then, with our lake commerce inconsiderable and the cities of our northern frontier in their infancy, it was from the north that some of the most dangerous assaults were made. Now there is a people there who would, in themselves, constitute a foe as formidable as were the Southern States at the outbreak of a rebellion which it took four years to suppress. There is a transcontinental railway line ready to scatter men and munitions of war along the whole boundary. There is the Welland canal by which war vessels could be introduced to sweep our commerce from the lakes, and to do for the great lake cities what the English ironclads could do in a fortnight for the whole Atlantic and Pacific coasts. With any other nation, even in our unprotected state, we might with security on our Northern frontier withstand a shock until we had purchased means of defence. Engaged with England in a dispute that enlisted the sympathy of every Canadian, we should be effectively attacked at every outpost except the comparatively short Mexican frontier. No sensible man believes that two great nations will permit themselves to be drawn into war over a petty squabble aggravated by unreasonableness on both sides. And no sane man could view the possibility of such a war with the lightness exhibited by a portion of the press accustomed to discuss all foreign affairs in the tone and spirit of the old-fashioned Fourth of July oration.

THE recent exhaustive researches by Mr. Verbeek into all the phenomena connected with the red sun glows of 1883 and 1884 have led him to conclude that they were caused mainly by the masses of aqueous vapor thrown out by the volcano Krakatoa. In this view, the watery vapor ejected by Krakatoa, after condensing and freezing in the high air, produces the remarkable sunset, though the ashes may have intensified the phenomena besides serving as a

# Iron and Machinery.

### BUSY IRON WORKS.

A FEW evenings since a Globe reporter, while passing along the Esplanade, was attracted by the brilliant electric light, the hum of machinery and the busy scene presented at the Polson Iron Works at the foot of Frederick street. Entering the office and inquiring of Mr. F. B. Polson the cause of the rush, he was informed that the Globe itself was partly responsible for it, the announcements of the firm in its columns having attracted attention from all over the Dominion. "We are running 100 men, are working every night till ten o'clock and are as busy as bees," said Mr. Polson. "Just look a moment at our order book. While our local trade is just booming, here is an order from the Halifax Electric Light Co., of which Mr. John R. Bothwell is president, for a pair of Brown automatic cut-off engines. These have a combined power of 400 horse power, a driving pulley 15 feet in diameter, 38 inch face, weighing ten tons. The Brown engine was chosen over all competitors on account of its great regularity of speed, durability and economy, the former quality being indispensable in machinery used in generating electricity. The Globe Printing Co. has one of these engines, and says of it :-- 'It is one of the best of its class, and is a simple but exceedingly effective and handsome machine."

Mr. Polson also called attention to an order for a Brown engine for Messrs. Kerr & Co., the celebrated thread manufacturers of Paisley, Scotland, for their branch establishment in Toronto. Still another order has been closed with Messrs. Barber & Ellis, bookbinders and envelope and stationery manufacturers. of this city. In proof of the fact that the Polson Company is running at its full capacity the statement was made that an order from a large firm in Montreal had been refused, as it could not be filled in time.

Turning to another department, a craft bearing the legend "No. 12" was seen on the stocks. On inquiry it was learned that this is a stern-wheel Mississippi boat for Mr. J. C. Hays, of Golden City, B.C., for use on the Columbia river, where only nine inches of draft is permitted Mr. Polson ventured the opinion that in an emergency this boat could be navigated where even a heavy dew falls. Mr. R. Power, of Barrie, a retired lumber merchant has placed his order for a fast steam yacht, which will be ready for shipment in a month.

All these indications justify the conclusion that the Polson Company have an excellent reputation, and are bound to retain it by turning out only first-class goods .- Toronto Globe.

### THE FORTH BRIDGE.

### A GREAT ENGINEERING FEAT NEARING COMPLETION.

MR. BENJAMIN BAKER, one of the engineers of the Forth Bridge, lecturing recently to the members of the Edinburgh Literary Institute, on the Forth Bridge, said that as regarded difficulties of construction the Forth Bridge far transcended the Great Pyramid, which he would contract to build in six years for £3,000,000. It was not on account of the size only that the Forth Bridge had become a shrine which half the bridge engineers of Europe, Asia, Africa and America aimed at visiting. The bridge was not only a big one, but of a com-paratively little-known type. Notwithstanding the magnitude of the work, not one had attacked the principle of construction, except one or two well-meaning gentlemen who thought that a knowledge of geometry might prove a substitute for a mastery of certain elementary problems in engineering construction, but found that it would not The best evidence of spproval was initiation, and he was pleased to be able to tell ings of the second set of pumps are also in hand.

them that since the first publication of the designs for Forth Bridge practically every big bridge throughout the word had been built on that principle. The weight of one of the 1,700 feet spans was about 16,000 tons, and the heaviest ing load would not 1 ing load would not be more than a couple of coal trains, weight ing together 800 tons, or only five per cent. of the dead weight The bridge would, therefore, be as stiff as a rock under ind pressure of a train. The estimated lateral pressure of the wind was calculated to be two and a half times as much as the train load, but the whole structure was so thoroughly braced together by lattice girders that a hurricane or cyclone might blow in any dimension blow in any direction up or down the Forth without affecting the stability of the bridge. To carry out the work there was an army of 3,500 workmen, officered by a proportionate number of anging and the second ber of engineers, his partner, Sir John Fowler, being the chief Altogether nearly 6400 000 is a single chief and Altogether nearly £400,000 had been expended on plant sile temporary works, and about £360,000 for steel plates, while £850,000 had to be different steel plates, while £850,000 had to be distributed in daily wages to workmen of On the engineering staff at the works were representatives of England Scattered T England, Scotland, Ireland, Germany, Denmark, Sweden and Japan all good and t Japan, all good and true men working zealously together with one sole aim—the good of the job. The same spirit animated officers and men and while the officers and men, and whilst they gave full credit to the chiefs, they must not forget that building the Forth Bridge was in many respects a soldiers' battle. To cling to icy cold plates, hundreds of fast in the size with hundreds of feet in the air, with a bitter wind howling round one, required courage similar to that which led men to charge the for in battle the foe in battle, or to launch a life-boat to the rescue of som shipwrecked crew. All honor, therefore, to the workmen of the Forth Bridge, who day by day were proving that "Peace hath her victories not less renowned than war."

THE long iron bridge at Bismarck, Dak., contracts and expande eleven inches by the heat and cold.

SAWDUST thrown on a circular saw table will render the hauling of heavy planks quite easy. The grains act as small rollers are reduce friction.

A SATURATED solution of camphor (alcohol and gum camphor), used for drilling hard steel, apparently "bites" its way through, marvellous result. marvellous result.

A GROSS of steel pens, formerly costing \$35, may now be produced for eight cents. The cost of making gold chains has been reduced to an eighth of what it was. These illustrations show the diminished cost of production in metal work.

A PROMINENT manufacturer of iron pipe has purchased 10,000 tons of Middlesbro (English) pig iron. This transaction and a pre-vious heavy purchase by a Western consumer exemplifies accuracy of the suggestion that any further material fries in the price accuracy of the suggestion that any further material rise in the prope of American iron would be and the of American iron would be apt to cause consumers to look to Europe for supplies.

THE Department of State has been informed by the consul state lessa that it is very possible that Odessa that it is very possible that steps will be soon taken to construct a petroleum pipe line from Baku to Batoum. The size of the pipe talked of is about source inclusion in the length the pipe talked of is about seven inches inside diameter, the length of the line about 550 miles, and its greatest elevation about feet. The consul desires that the matter has the set of the line about seven inches about about about seven inches about about about seven inches about feet. The consul desires that the matter be brought to the attended of American pine and summer attended to the attended of the strength to the attended of the strength to th of American pipe and pump manufacturers, that they may competent of supplying the necessary part of the for supplying the necessary material.

THE Hamilton Spectator said a day or two ago:- "A large castings for the second cylinder for the new city pumps, 41 tons in weights now out of the wild. is now out of the mold. It appears to be perfect in every part, is a very complicated one, and was made without a pattern in other is intended to commerce here and the second se week. Mr. Killey says they have not found any difficulty in this heavy work, having ample applications that is in the same set of the same set this heavy work, having ample appliances to handle it, and the second to none-to carry out the work. The class mechanics-second to none-to carry out the work.

# Permanent Exhibition of **7** Canufactures.

# Toronto.

# NICHOLLS & HOWLAND.

THE undersigned are now prepared to receive applications for space in the PERMANENT EXHIBITION OF MANU FACTURES.

Some of the advantages likely to accrue to manufacturers exhibiting may be briefly summed up as follows : 1. The Exhibition will be free to all and open throughout the year.

It will afford all the advantages of a Toronto branch establishment at a very moderate cost.

3. Exhibits will be seen by large numbers of business men who would not be apt to visit a private branch office unless on special business.

4. The Exhibition will be extensively advertised and made very attractive, and as almost every variety of machinery and manufactured goods will be on view under the same roof, it will certainly become an important mercantile exchange.

5. Competent salesmen will be in charge for the purpose of explaining the merits of each exhibit to interested visitors

6. Exhibitors can have printed on their office stationery "When in Toronto call and see sample of our goods at PERMANENT EXHIBITION OF MANUFACTURES.". This may afford prospective purchasers an opportunity of personally inspecting goods, who would not be apt to visit outside towns for that purpose.

7. Exhibitors can appoint us selling agents, or can have their own representatives in charge. In the former case, every endeavor will be made to establish profitable trade.

S. Machinery can be shown in motion, as shafting and power will be provided.

9. Office accommodation will be provided for the convenience of exhibitors and their agents.

The following list contains the names of those having already secured space in the building.

-	
Admstron J. A. & Co., Guelph, Ont., Carpets.	Net, H. R. & Co., Montreal, P.Q., Stoves and Hardware Novelocs
Her ram John & Sons, Dundas, Ont., Iron Working Machinery	herr Bros , Walkerville, Ont., Water, Steam and Gas Valves,
blake Geo, F. Manufacturing Co., Boston, Mass., Steam Power Pumping	King, R. W. & Co., Georgetown, Ont., Power Kultung Machiners
Machinery.	Leslie, James, Montreal, P.Q., Woollen and Cotton Mid Supplies
Brush, Geo, Eagle Foundry, Montreal, P.Q., Blake Stone Crusher.	Met (skill, D. A. & Co., Montreal, P.Q., Varaishes and Japan
arcithaupt & Co., Berlin, Ont., Leather,	where the second se
	Miller Bros. & Mitchell, Montreal, P.Q., Machinery and Leandry - Steam
Clare Bros. & Co., Preston, Ont., Stoves and Furnaces.	Hammer,
Cowan & Co. Galt, Ont. Woodworking Machinery, Engines and Boilers.	Morris, A. W. & Bros, Mestreal, P.Q., Cordage and Bunder Twins
Creehnan Bros., Georgetown, Ont , World's Star Knitting Machines.	Munderloh & Co., Mentrea', P.Q., Watchmen's et ocks
Dalley, F. F. & Co., Hamilton, Ont., Extracts, Essences and Grovers Sundries	Northey & Co., Torodd., Ont., Steam Pumping Machinery
Dominion Baby Carriage Co., London, Ont., Baby Carriages and Battan	Northumberland Paper Co., Campbeliford, Ont , Straw Loard and Tarred
Furni are	Paper.
Dominion Hat Co., Hamilton, Ont , Feit Hats.	Ontario Bolt Co., Toronto, Ont., Bolts, Nuts, Spikes etc.
Donald Produce Co., Norwich, Ont, Evaporated Fruits	Oshawa Stove Co., Oshawa, Ont., Cooking and Heating Stoves, etc.
$\mathbf{t}$ -nwick $\mathbf{x}$ -schater, Montreal, P.Q., Files and Mill Supplies.	Paris Manufacturing, Paris, Out, Knut Guods.
(dow Tohacco Co., Windsor, Ont , and Detroit, Mich., Tohaccos,	Pepper, T. & Co., Guelph, Ont., Corriage and Waggon Axles
Goldie, James, Guelph, Ont., Flour	Fillow, Hersey & Co., Montreal, P.Q., (Geo. A Macagy, Western Represen-
God aue & Co, Danville, P.Q., Leather Belting and Lace Leather	tative, Torento.) Nails, Tacks, Bolts, et .
Grad River Knitting Mills Co., Paris, Ont., Smyrna Rugs and Knit Goods	Ramsay, A. & Son, Montreal, P.Q., Plate and Starved Glass, Paints, Oils etc.
Grand & Foy, Toronto, Ont., Tucker Automatic Letter and Document Files.	Robin & Sadler, Montreal, P.Q., and foronte, Out., Leather Relting and
Grass Sugar Refining Co., Walkerville, Out., Syrups and Glucose	Lace losther.
Runilton Industrial Works Co., Hamilton, Ont., Wringers, Mangles, etc.	Rumpel, Geo., Berlin, Ont., Felt B ofs and Shees.
Humilton Rolling Mills Co., Hamilton, Ont., Bar Iron, etc.	Sumpson & Co., Berlin, Oat , Farniture
Ha aliton, J. S. & Co., Brantford, Ont., Native Wires	Smith's Falls Mallcable Iron Co., Smith's Falls, Oot , Mallcable Castings and
Hart Emery Wheel Co., Hamilton, Ont., Unery Wheels and Emery Wheel .	Carriage Hardware,
Michinery	Smith, R. H. & Co. St. Catharines, Ont , Every Description of Save
	Smith R at a Co. So Catharnes, Ont, Even Preciption of Say
Hay, Peter, Galt. Oat., Much ne Knives.	Stahlschmidt & Co., Preston, Out., Office Furniture
Hearle, J. G., Montreal, P.Q. Tolict Soaps and Perfumery	Storey, W. H. & Son, Acton, Out., Gloves
Howland, H. S., Sons & Co., Toronto, Ont. Hardware Specialties	Walker, James, Hanalton, Opt., Household Scape,
Howland, H. S., Kleinburg, Oat, Flour	Watts, A. & Co., Branfford, Ont., House hold Supps,

Howland, H. S., Sons & Co., Toronto, Ont., Hardware Specialtics Howland, H. S., Kleinburg, Ont., Fleur Hemming Bros., Toronto, Ont., Fleur Goods and Jewellers Cases.

Further information will be promptly furnished.

# NICHOLLS & HOWLAND. Office of Canadian Manufacturers' Association

6 WELLINGTON STREET WEST,

TORONTO.

# 146 THE CANADIAN MANUFACTURER. March 4, 1887 WORKS, KNOWLES PUMP ST EAM BUILDERS OF STEAM PUMPING MACHINERY IN EVERY VARIETY Simple and Duplex BOILER PUMPING FEED. ENGINE FIRE and for TANK TOWN and CITY

PUMPS

For Particulars. 44 Washington St., BOSTON. ILLUSTRATED CATALOGUE.

# J. & J. TAYLOR, Toronto Safe Works.

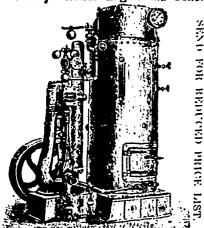
ESTABLISHED 1855

Manufacturors of all kinds of Fire and Burglar Proof Safes.

PRISON LOCKS AND JAIL WORK A SPECIALTY.

We call the attention of Jewellers to our new style of Fire and Burglar Proof Safes, specially adapted for their use.

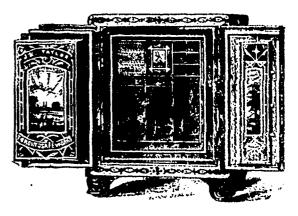
The Doty Vertical Engine and Boiler.



In sizes from 3 to 10 H.P. Specially ad upted to places where 3 to 10 H.P. is required. Simple, safe and durable.

JOHN DOTY\* → ENGINE GO

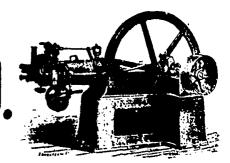
> No. 2 Bathurst Street, TORONTO, ONT.



93 Liberty St., NEW YORK.

THE Otto Silent Gas Engine.

SUPPLY.



In sizes from 2 to 7 H.P. Most convenient power in the market.

SEND FOR CIRCULAR.

THE CANADIAN MANUFACTURER.

. . . . . . . .

147

Rextiles.

### SHANGHAL NATIVE COTTON CLOTHS.

As interesting account of the native cotton fabrics manufactured at Shangha, and the surrounding district, has been received from Mr Charles Alabaster. Two species of cotton fibre are produced in the Shanghai district, the white and the haff. From the former three classes of cloth are manufactured, which may be distinguished from their texture as five, coarse. and medium. From the buff fiber is made the material so well . known as Nankeen, which retains the natural color of the raw . cotton.

There does not appear to be any manufactory either in the , city of Shanghai or in the foreign settlements, though the calendering of the purple and blue time-cloths is effected in the ery At varying distances in the country the manufacture is f carried on, and the produce of the looms is brought into town, for sale. It is only on the Pootung side of the river that there are factories constantly at work. These produce the coarse doths. The looms on the Shanghai side are intermittent in operation, and it may accordingly be inferred that the Pootung l cloths are in greatest demand.

Of the fine cloths, five varieties are produced from the unbleached white (which does not itself appear to be in the market); viz., bleached white, purple (calendered), blue (calendered), coarse blue (the ordinary wear of the working classes), and black Taking the English square foot as a unit, these vary in price from 1.63c, to 2.11c, per square foot.

The coarse Pootung cloth is dyed in green and grey, and varies in price from 1.28c, for the undyed white to 2.11c, for lines. It might be thought that even a politician infatured the green.

The medium sloths are dyed in one color only, red, and largely used on festive occasions as being the most auspicious of colors. The price ranges from 1.75c, to 2.41c.

The Nankeens are not subjected to any dyeing process, and are sold at 1.45, per square foot, being, with the exception of the undyed Pootung cloth, the cheapest in the market.

cottons on the market compare in price with these native cloths It will be noticed that the wholesale rates are very much lower, in Shaughai cloth shops for the native produce. But then, as

submitting a sample to a foreign expert, he declared that such where they really belong, among high class woollens, elor, if imported, would not find a market in Shanghai This is the more remarkable, that this native dyed foreign shirting AN AMERICAN VILW OF THE COTTON GOODS is largely used for women's and children's clothes, especially for what may be called gala dress. All attempts to place on the markets cottons dyed to the shade of blue, affected by the Chaese working classes, have resulted in failure, - Monchester 1 stile Recorder

### TARIFF CHANGES AND THE WOOLLEN TRADES

### (Philadelphia Textile Record.)

Tus following exhibit of the comparative imports of wool which would at least reach an aggregate equal to the amount ad woollens for the years 1885 and 1886 is of marked interest of increase in England's shipment during a single year to mar-The imports of both the raw materials and fabrics for last year (kets geographically as near to us as Central and South America, were, it will be observed, largely in excess of the imports for the West Indies and Mexico. These, naturally are our marthe preceding year. Thus, while the American manufactorer | kets. It appears that England's total exports during 1886 has suffered much, the American wool grower has suffered reached the enormous total of 4,850,030,200 yards, valued at more Every pound of the wool and every yard of the fabric \$250,\$51,170. In the year previous the exports were 4,374, in excess of previous importations represents just so much loss 516,500 yards, valued at \$241,384,275. We have thus an teour domestic industries. If there is a lesson to learn from fincrease of not less than 475,513,700 yards for the past year,

these figures surely it is not that there is need for further surrender of our market to foreigners who grow, spin, weave and knit wool.

IMPORTS FOR TWELVE MONTHS ENDING DECEMBER 31.

The other to know substrate Capital Dates	ana or
1886.	1885.
Clothing wools	\$ 3,742,897
Combing wools 2,262,151	1,286,746
Carpet and other similar wools	7,889,608
Total	\$12,919,251
Carpets and carpetings of all kinds § 1,511,492 Clothing, ready-made and other wear	\$ 1,080,081
Clothing, ready-made and other wear	
ing apparel, except shawls and knit	
goods 1,577.272	1,434,012
Cloths 9.941,582	9,167,720
Dress-goods, women < and children s = 15,754,275	13,907,629
Knit goods	1,759,751
Rags, shoddy, mungo, waste, and	
flocks 1.582,506	100.837
Shawls 1.144,255	\$90,944
Yarns	1,123,178
All others	6,189,621
Total	\$35,953,776

Secretary Manning this month again urged Congress to repeal the duty on raw wool and thus "remove the tax from the clothing of sixty millions of people.' If Mr. Manning wants to make the agricultural interests, constituting about one haif of the sixty millions, nearly ananimous against the return of his party to power, he is working or just the right with free trade notions would understand the decisive vote of the people last fall against such schemes as this. When the American people want the duty off of wool they will cleet a Congress that will take it off. Only three months ago they elected a Congress that will certainly keep it on. And, if the sixty suffering millions wish to pay that kind of a tax on their clothing, why should Mr. Manning worry himself about them I In the subjoined table is shown how the principal toreign [It looks as if he, had he the power, would remove the duty in defiance of expressed public opinion, and in such an event he might discover that his method of blessing was not unlike the and the retail prices considerably cheaper than what is demanded ordinary method of cursing The sume ground may be taken with reference to Mr Randall's proposition to admit certain vioreign pieco goods merchant remarked, this is easily explained, classes of wool tree of duty There is no general demand for The native cloth lasts forever ; the foreign import does not, such a proceeding ; and there is a certainty that it would open One item of import deserves especial remark. "Sixty four wide the doors to fruid - The only thing that ought to be done reed white shirtings, costing 0.64c, per square foot wholes de [11] the matter of tariff legislation for textiles is to repair the are dyed pink by the local dyers, and retailed at 1.53c. On very hurtful blunder in the worsted clause, by putting worsteds

TRADE.

### (Boston Manufacturers Gazette.)

AFTER examining the detailed statement of exports of cotton piece goods from Great Britain the past two years, prepared by the British Board of Trade, and making due allowance for England's superior advantages in many respects, it is a matter of regret that our own country, the chief source of supply of the raw material, should not have an export trade in the goods

347,953,800 yards in uncolored and 127,379,300 yards in colored goods the balance being in mixtures. This enormous gain has been mainly in shipments to a few of the many countries where English cottons are marketed ; and it is a significant fact that, aside from the East Indies, the older markets have not been relatively as liberal customers as those that have been more recently developed

This new phase of Elegrand - cotton export movement should set our own people to this king, for it shows what can be done in the way of developing new neutrets, as well as holding on to old ones. The figures d-o show that the trade which has been lost in certain quarters was been more than compensated by the sucrease. The yards of cotton goods sent to countries which are naturally our own foot up a gain of 148,447,100 yards in the amount sent to South America, 16,403,293 yards to the West Indies, 5,535,100 yards to Mexico and 592,000 yards to Central America.

As the case now stands, England has practical monopoly of the cotton export business, her goods being sold in over lifty different foreign countries In the quantities exported we find a large increase in uncolored cottons. Yet there is some hope of American manufacturers touching this important trade. Authorities anticipate (good trude with India, China, Japan, and the far East. Meanwhile a strong effort should be made to sell our cotton goods to our foreign neighbors.

### CHEMNITZ HOSIERY WARES,

### (Kublow & German Trade Review.)

BUSINESS is just moderate of Chemnitz. Purchases are gradually restricting themselves merely to the replenishing of stocks. A good manand, however, has been experienced for smooth colored goods, particularly from New York. Now that the busy season is over, more time may be taken over the execution of orders than previously, and at this rate manufactuters will be moderately engaged for some little time with orders on hand. There is little doing in ribbed hosiery, and prices or at an abnormally low level. All-silk gloves are in tair request for certain qualities ; a repetition of last season's heavy demand for this article is not to be expected next, however, and many establishments will be restricting themselves to the more profitable manufacture of woollen articles. Enquiries for combed yarn goods are not coming in so freely as had been expected; although the market is very firm at present, buyers are thinking that over-production will later on bring prices down. Hence the reticence Some good commissions for woollen gloves have been received from New York.

### A HINT TO DYERS.

Dygas, as a rule, are aware that when they attempt to duplicate a color made where they had to use hard water, that the same quantity of drugs, where soft water is used, will not produce the same shade. In such a case, he adds more drugs to produce ins shade ; and if it be a sobered color, he is surprised to see how much more stuff he was obliged to use. Oftentimes he will think that the drugs are of an inferior quality, when in reality they are equal to what he has been in the habit of using. The fact is this, hard water does not require as much drugs as water which is soft; and if where soft water is used, they add a small amount of lime or ground chalk to their dye bath, it will make the water as hard as that which they use where they dve samples, and then they will have less trouble in matching those Wade's Fibre and Fabric. samples.

THE advance sheets of the American Bureau of Statistics show a remarkable increase in the importation of clothing wools for the eleven months () dug November 30th, compared with a correspond-ing period for 18.5. In 1855 imports amounted to \$17,784.740 in 1889, \$34,298,008, nearly double. The lowering of the duty will increase this. increase this.

### BRITISH TEXTILE STATISTICS.

EXPORTS OF WOOLLENS AND YARNS FROM THE UNITED KINGLOM.

····· •·							
TOTAL	TO UNITED	TO GERMANY					
EXPORTS.	STATES.	AND HOLLAND					
£38,000,000	£6,300,000	£15,000,000					
29,100,000	4,200,000	8,900,000					
21,600,000	1,600,000	5,600,000					
21,500,000	2,500,000	4,300,000					
22,000,000	2,200,000	3,900,000					
23,100,000	2,800,000	3,800,000					
22,500,000	3,000,000	3,600,000					
25,200,000	3,100,000	4,200,000					
24,500,000	2,900,000	4,200,000					
25,500,000	3,900,000	4,300,000					
	EXPORTS. £38,000,000 29,100,000 21,600,000 21,500,000 22,000,000 23,100,000 22,500,000 25,200,000 24,500,000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

EXPORTS OF BRITISH TEXTILES TO THE UNITED STATES.

The official returns of the Board of Trade from which the following table is compiled, show the exports of the principal textile goods from the United Kingdom to the United States, during the month of December, 1884, 1885 and 1886, and day for the twelve months ending December 31st, in each year. In the latter case the returns are printed in italics. In those instances where the quantity is not given, owing to the nature of the exports, the value is substituted.

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
goods $53,229,300$ $46,154,400$ $45,251,200$ Jute yarn $1,058,500$ lbs. $1,905,300$ lbs. $1,126,400$ Jute yarn $1,058,500$ lbs. $1,905,300$ lbs. $1,26,400$ Jute yarn $10,268,600$ $14,474,800$ $16,716,000$ Jute piece-goods $10,622,500$ yds. $8,181,700$ yds. $14,233,200$ yds         Jute piece-goods $123,083,000$ $107,228,400$ $119,300,300$ Linen yarn $32,500$ lbs. $71,900$ lbs. $101,600$ lbs. $60,800$ $10,653,700$ $1,318,900$ $1318,900$
goods $53,229,300$ $46,154,400$ $45,251,200$ Jute yarn $1,058,500$ lbs. $1,905,300$ lbs. $1,126,400$ Jute yarn $1,058,500$ lbs. $1,905,300$ lbs. $1,26,400$ Jute yarn $10,268,600$ $14,474,800$ $16,716,000$ Jute piece-goods $10,622,500$ yds. $8,181,700$ yds. $14,233,200$ yds         Jute piece-goods $123,083,000$ $107,228,400$ $119,300,300$ Linen yarn $32,500$ lbs. $71,900$ lbs. $101,600$ lbs. $60,800$ $10,653,700$ $1,318,900$ $1318,900$
Jute yarn       1,058,500 lbs.       1,905,300 lbs.       1,126,400 lbs.         Jute yarn       10,268,600 **       14,374,800 **       16,716,000 **         Jute piece-goods       10,622,500 yds.       8,181,700 yds.       14,233,200 yds.         Jute piece-goods       10,622,500 yds.       8,181,700 yds.       14,233,200 yds.         Linen yarn       32,500 lbs.       71,900 lbs.       101,600 lbs. $105,800 **$ 1,053,700 **       1,318,900 ** $100,900 yds$ 555,200 yds.       60 000 **
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Linen yarn
Linen yarn
Lanen yarn
( A 900 000 when 5 655 000 when 0 000 when 1
i A 900 000 when 5 (55 00) when 0 000 when 1
Linen piece.wide / 4,800,900 yds. 5,655,900 yds. 6,640,900 yds.
Linen piece-g'ds { 69,032,100 ** 69,839,700 ** 83,116,500 **
Silk broadstuffs 50,301 ' 58,345 ' 83,374 '
174,7.36 ** 592,082 ** 423,874 **
Other articles of ( £1,796 £2,216 £2,516
silk only . ( £48,986 £38,878 £59,781
Art'les silk mix'd ( £17,943 £23,172 £51,698
w'h other ma'ls () £513,836 (£371,937 (£629,901
Woollen fabrics 290,500 397,700 738,800
1  3,208,300  4,602,400  7,050,500  4
Worsted fabries 1 2,005,200 yds. 3,563,000 yds. 3,139,200 yds
1 35,297,400 3 55,389,300 44,77,400 3
Apparel & slops ( £7,745 £6,769 £7,732
- 1 £100,770 £105,249 £105,612
Haberdashery & J £10,916 £13,714 £13,804
millinery 1 £273,224 £171,291 £196,488

MR. E. Vograssisa, of Port Elgin, is in town, looking for some hands for his button factory which has been started in the above place. Any parties who want a job, especially turners and sawyers, can leave their names at once at this office - Berlin News.

MR. JOSBEH DIXON IS running the Ruthven Woollen Mills, in Gosfield, Ontario, Canada, on flannels, blankets, tweeds, and cencral domestics. He sells direct, principally to the people of his viennity. He operates Davis & Furber jacks and the Crompton 100m. - Philadelphia Textile Recorder.

THE most kindly relations exist between the 200 employees of the Hamilton Cotton Company and Mr. J. M. Young, the manager, and a member of the firm, and on Friday night, with his aid, the employees and their friends celebrated the extension of the conpany's buildings and machinery by holding a social reunion in the new premises.

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### ONTARIO'S MILLING INTERESTS.

THE flour milling interests of Ontario are not generally understood, and consequently their importance is much under rated. In Ontario there are about 2,000 grist and flour mills, hearly 1,000 of which have within the past few years under gone vast improvements, necessitating an immense outlay of capital, consequent upon the change from the old stone system of grinding to the new roller process. From enquiries we have instituted, it has been ascertained that the cost of placing a combination set of rollers in a mill, has ranged from \$4,000 to 5,000 in quite a number of instances, but for machinery suitable for high class patents, the refitting of an ordinary sized mill has cost from \$10,000 to \$12,000. A very moderate estimate places the total amount of capital expended in transforming the mills in Ontario from the old system to the new at between \$6,000,000 and \$7,000,000. The adoption of the roller system was undoubtedly a much needed improvement, which has completely revolutionized the milling industry of Ontario, and will tend vastly to the furtherance of its best interests. Trade Bulletin.

### CURRENT NOTES.

### (American Miller, Chicago.)

A CORRESPONDENT asks us a question which has been sent us many times before, and shows that a mistaken notion is widespread in regard to patented machines. The question is whether a party can make a machine for his own use, that is patented. He cannot, unless he is willing to trust the chances of a lawsuit. The law makes no distinction between the Vendor and the user of patented articles, holding both equally liable for such damages as may be awarded.

THE scheme to provide water power for light manufacturing in cities, through the instrumentality of the waterworks, is not feasible so far as such cities as Chicago, Milwaukee and many other cities are concerned. The simple reason is that the water must first be pumped up before the head of water is gained, and this represents perhaps two or more times the power which the water would yield when utilized afterward by a motor. Ob Viously, water power distributed through the mains of our great cities is yet a dream of the future ; it is too costly.

BRITISH farmers complain that their railroads assist to the full extent of their ability in making profitable wheat-raising impossible in England. It is said that it costs more to transport wheat a hundred miles in England than it does to send it from America. Of course wheat does not go very far to find a  $m_{B-1}$  does not go very far to find a market in Great Britain ; but if we had such charges here as then a they have in Great Britain, very little freight would go from West to East. The various parts and parcels of this world are Setting pretty close to each other, too close for comfort, it appears, sometimes.

NOTWITHSTANDING the epidemic of legislation to protect the Poor granger from the red-handed grist miller, we notice no law that is quite so beautifully inconsistent as the Illinois law on the the subject of toll. In this state the law permits the miller to  $t_{ak_{a}}$  and a second h for the take an eighth for grinding and bolting, and a seventh for the that of some state legislators.

### EXPLOITING MILLERS AND BAKERS BY MEANS OF INDIAN WHEATS.

A COMPANY is projected for this purpose at Bristol, and is described thus in the Millers' Gazette, Dec. 20: "The Bristol Grain Washing Company is the title of a new company proposed for the purpose of acquiring and developing the business of washing and drying Indian wheat by special machinery, now carried on at Avonmouth Dock by Mr. R M. Brinkworth, the well-known corn merchant of Bath. The capital is £20,000 in 2,000 shares of £10 each, of which 1,200 shares are offered to the public." To pay five per cent yearly dividend on the above capital would require a clear profit of £1,000, over and above working expenses and maintenance, and this must come from the buyers of the washed wheat, and those who pay for the flour from the wheat. If millers and bakers are content to buy, the one wheat and the other flour, without any reference to the amount of moisture these products contain, this latest form of parisitism on milling and baking should not only make five per cent. yearly, but much more with the greatest ease. As a means of enriching sharpers, there is nothing to equal Indian wheat. It is started from India with a mean of six per cent. moisture, and, after washing and drying on this side of the ocean, is found to contain eighteen per cent. when ready for milling, thus, the Bristol company, buying in India and selling here would make a gain of twelve pounds on every hun-dred less two per cent. of foreign matters washed from the wheat, or a net gain of ten pounds. Thus also, the miller buying washed wheat would pay the price of wheat for the added water, but would lose on his flour, because while the wheat might contain eighteen per cent., the flour would have only between fourteen and sixteen per cent. On the whole, I don't think this Bristol enterprise will succeed; it is clear to me it does not deserve to do so. -W A. Thoms in British and Foreign Confectioner.

According to the Statist, the average price of wheat in Great Britain in 1886 was lower than in any year since 1701, being 31s. 1d. per quarter. The highest annual average reached during the period named was 126s. 6d. per quarter in 1812, and 1835, 1851, 1884, 1885, and 1886, are the only years in the present century in which the annual average has gone below 40s. per quarter.

WITHIN the last twenty years the average annual production of grain to each inhabitant of the United States has increased from  $32\frac{1}{2}$  to  $52\frac{1}{2}$  bushels; while at the same time the cost of transportation from Chicago to New York has decreased 3.45 cents to .68 of a cent per ton per mile. Thus the western farmers, in spite of their distance from market, have been able to make a profit on their superabundant products, while eastern consumers have been benefitted to a remarkable extent by the cheapening of all staple articles of subsistence.

A MELBOURNE circular says the wheat crop promises to be a sixbushel average in South Australia and is a complete failure in the Queensland district, the rust having destroyed all hope of a yield. In the north of Australia the crop will run from 35 to 40 bushels to the acre on a small area of irrigated land, while on dry land the yield will be only about four bushels to the acre. This is an enormous difference, and may well be supposed to furnish a powerful argument in favor of the artificial watering which has already worked such wonders in the Rocky Mountain districts of the United States and the further west. The uncertainty of the rainfall in Australia appears to be the great drawback of that country to the agriculturist.

THE Mark Lane Express is very strongly advocating a protective duty on imports of foreign wheat and flour, claiming it to be the only hope for British farmers. Its leading editorial in the issue of December 27th, says: "Farmers as a rule, are worse off than they were a year ago, and there does not appear to be any nearer prospect of legislative assistance from the government than there was then. Without that we fail entirely to see where the remedy is to come from in time to save the present generation of farmers what was due the miller ! Manifestly because he thought an trust that more energetic efforts will be made by farmers to force eight. eighth part was greater than a seventh part. We can believe the matter on the attention of the legislators and make it plain to consumers that they can not be fed at a loss."



# THE FREE ENTRY OF FOREIGN-SAWED LUMBER.

APPLICATION TO THE UNITED STATES SECRETARY OF THE TREA-SURY FOR THE PREVENTION OF THE ALLEGED EXTEN-SIVE EVASIONS OF THE LUMBER TARIFF.

### (Bangor Whig.)

MEMORIALS setting forth that great frauds upon the revenue have been committed under the guise of the laws granting free entry of lumber manufactured in the British provinces by American citizens from logs cut in the State of Maine, have been numerously signed by the principal lumbermen of the Penobscot and Kennebec Rivers and forwarded to the Secretary of the Treasury through our members of Congress, with request that the department set in motion effective agencies for the prevention of the violations of law complained of. Representative Boutelle recently received a number of these memorials signed by the most prominent lumber manufacturers of Bangor, Old Town, Orono, Milford and the vicinity representing the business on the Penobscot River, forwarded to him by Messrs. W. T. Pearson & Co., and on Tuesday he called per sonally on Secretary Fairchild with the papers and had an interview with him in regard to this important matter.

The secretary expressed a very earnest desire to do anything in the power of the department to remedy the evils represented, but stated some of the difficulties encountered, and the importance of having the co-operation of American lumber manufacturers with the revenue authorities in the matter of discovering and punishing fraudulent importation. The interview resulted in the following correspondence :---

> TREASURY DEPARTMENT, FEBRUARY 15th, 1887.

Hon. C. A. Boutelle, U.S. House of Representatives, Washington, D.C.

SIR,—Referring to the petition of Messrs. Wm. T. Pearson & Co., Adams & Co., and others of Bangor, Maine, submitted by you to the Department, concerning alleged frauds in the importation of sawed lumber from New Brunswick, claimed to be the productions of the forests of the State of Maine, I transmit herewith a letter this day addressed to the said parties, which I will thank you, after perusal, to cause to be forwarded to the proper address. Respectfully yours.

C. S. FAIRCHILD,

Acting Secretary.

TREASURY DEPARTMENT, Office of the Secretary, Washington, D.C., Feb. 15th, 1887

Messrs. Wm. T. Pearson & Co., Adams & Co., and others, Bangor, Maine :

GENTLEMEN,—The department is in receipt through the Hon. C. A. Boutelle, of your petition without date, concerning alleged frauds in the importation of sawed lumber from New Brunswick, which is claimed to be the production of logs cut in the State of Maine, and sawn in the Province of New Brunswick by American citizens, and to be entitled to free entry under the provisions of section 2,505 and 2,506 of the Revised Statutes, as contained in the Act of March 3rd, 1883.

The petition represents that great frauds exist in such importation in that a comparatively small amount of Maine timber is mingled with the great drives of the St. John River in New Brunswick, which are floated to the mills in that Province and there manufactured, and that the product, consisting principally of foreign lumber, is then imported into the United States, and admitted to free entry as of the productions of the State of Maine, manufactured in New Brunswick by American citizens. The department is unable to take any definite action upon the general statement made in said petition. If you will, however, forward particulars concerning any transactions of which you have knowledge, specifying the names of importers, and importing vessels, dates of importations, and other data, the department will cause careful investigation to be made with a view to detect such frauds, and to prevent their recurrence in the future. Respectfully yours,

C. S. FAIRCHILD, Acting Secretary.

The Southern Lumberman predicts an unusually brisk trade  $\beta^n$  poplar and yellow pine the coming season, claiming that the scarcity of dry stuff in the Northwest will leave the Southern lumber dealers practically without opposition.

MR. GEORGE A. LOUD, of the Oscoda Salt and Lumber Company, returned last week from the Georgian Bay district, in Algonia, where he is banking several million feet of long timber and short logs for the American market. When the south extension of the Algona branch of the Canadian Pacific is completed next summer it will be quite easy for Michigan lumbermen to reach the pine forests of the Serpent, Spanish and French rivers, going via Mackinaw and the Sault in place of via Toronto.—Lumberman's Gazette, Bay City, Michigan.

THE latest novelty is in the shape of a rope moulding machine. It was invented and patented by Mr. John Connor, an employee of the firm of Messrs. M. Brennen & Sons, and is called the "Connor Rope Moulding Machine." The principal feature is that it will feed itself. It does not require the pieces to be made round before be putting in the machine, but a square stick, any size required, can mentation faster and more perfect than by the ordinary method. There is one in working order at Messrs. Brennen's factory. It has been examined by skilled workmen and pronounced the best machine for the purpose ever invented.—Hamilton Spectator.

A GERMAN astronomer has found reasons for believing that the zodiacal light and the aurora borealis result from the reflection of sunlight by water and ice

The teeth of an individual often vary greatly in hardness at intervals, and a Berlin physician, W. D. Miller, is experimenting to show that this is due to a varying proportion of lime salts in the food.



NOTICE TO CONTRACTORS.

### EXTENSION OF TIME.

The time for receiving tenders for

NEW EXAMINING WAREHOUSE,

AT

### OTTAWA,

is hereby extended to TUESDAY, 15th MARCH.

By order, A. GOBEIL,

Secretary.

Department of Public Works, ) Ottawa, 28th February, 1887.

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# Mining.

### OTTAWA VALLEY PHOSPHATES.

THERE are at present eight phosphate mines carrying on Active operations in the neighborhood of the Lievre river. They are situated at a distance of from nine to twenty-three main niles north of the village of Buckingham, and are known as the Emerald mines (American company), the Little Rapids **bine** (Canadian owner), Battle Lake mine (Anglo Canadian Phosphate Company), McLaren's mine (Canadian owner), the North Star mine (American company), High Rock mine (Enginh company), Union mine (American company), High Falls nine (Anglo-Canadian Phos. Co.). Between 400 and 500 men in all are employed at these mines. Machinery of some kind is used at most of them, and air compressors are employed at the High Rock, Little Rapids, and North Star mines.

Besides these mines several other phosphate localities on the Lievre have been worked at various times, and with varied Success

The deepest mine on the river, the North Star, has already such to the distance of almost 450 feet from the surface. The second deepest is Battle Lake mine, which has reached almost 250 feet in an inclined shaft.

The Anglo-Canadian Phosphate Company, the owners of the Battle Lake and High Falls mines, are also working on a large scale a mine in North Burgess, five miles from Perth, and hown as the Otty Lake mine. It is one of the very best phosphate mines in Canada. An air compressor, capable of working seven steam drills, has been put up and proves very serviceable in working the rich phosphate veins on the property. The output of phosphate in 1886 was 18,968 tons, as against 23,849 tons in 1885, and 20,747 tons in 1884. This for a state 23,849 tons in 1880, and 20,141 tons in 1980, for a state office of for Canada phosphate, and is only temporary.

The phosphate is shipped down the Lievre in scows in the summer time and loaded at Buckingham on cars for Montreal, whence it is shipped to the various markets in Great Britain and Europe.

The quality of the phosphate is very good, some shipments averaging over 85 per cent. phosphate of lime. One shipment from the North Star mine averaged 86.48 per cent.

### AMERICAN IRON ORES.

ARKED INCREASE IN THE PRODUCTION OF THE METAL--GREAT DRAIN ON THE ORE DEPOSITS.

WASHINGTON, Feb. 20th, 1887.--Major John W. Powell, Director of the Geological Survey, has furnished the following for Publication :

The great increase in the production of pig iron from 4,529, 869 short tons in 1885 to 5,600,000 short tons during the year 1886 h  $\mathbf{m_{ade}}$  has led to much inquiry as to the source of the set  $\mathbf{v}_{even}$  is increase possible, for it is a well known fact that even this increase possible, for it is a web shows a second support of a second support of a second supply in a auticient to exhaust the present sources of actual supply in a short period --- perhaps in thirty years, more probably in much Renew 1 Period -- perhaps in thirty years, more products Renew 1 The Government has given sufficient attention to the Seneral geology of the country, however, to afford a good grasp on the distribution of the iron ores, and the geologists have also defined the character of the ores so well as to direct the

explorers accurately to the profitable fields. The statement was made last year by me that within thirty statement was made last year oy me once and a sould be accessed by the necessary exploration for new iron ore mines would be accessed by available deposit is being that of Great Britain, where every available deposit is being traced to the furthest extent. The years 1885 and 1886 have shown the justice of this prediction in the development of ern-grown products.—Manufacturers' Gazette. 78

new fields to support the increased production. The new Gogebic district, which produced 1,022 tons in 1884, increased to 111,661 tons in 1885, and increased this four fold in 1886, has been the scene of unparalleled developments, and the same is true of the Vermilion district of Minnesota.

The confidence with which capital has been invested in these new claims is due to the advice of the geologists to extend the mines in this direction. That the new mines are the result and not the cause of the increased production of iron and steel is shown by the increased imports of Spanish ores during the last year as the result of higher prices. This shows that the remedy for prospective exhaustion is still further exploration for the mines to which the geologist points in various parts of the country. Many of the large deposits have been neglected as not suitable for making steel by the ordinary acid process, and in others the percentage of iron is not attractive. But much attention will undoubtedly be given to these ores within the next few years. This tendency is seen at one locality in Tennessee by the increase from 70,757 long tons in 1884 to 94,319 long tons in 1885, and even the siliceous ores at Cornwall, Pa., show increased use.

A PITTSBURG (Pa.) natural gas company, the largest one in the country, supplies over 400 manufactories and over 7,000 dwellings with the entire amount of fuel consumed.

ARKANSAS is not keeping pace with some of her Southern sisters in the matter of iron development, but she is developing a product which is equally, if not more, valuable. Her coal deposits are vast, rivaling those of any State except Pennsylvania, while the quality is excellent, the coal being a semi anthracite, containing an unusual amount of fixed carbon. The coal resources of the State have been neglected in the race after riches in the shape of iron and other minerals, but are now being estimated at their proper value and development begun in a large number of places. The districts bearing coal in paying quantities are estimated at 7,680,000 acres or 12,000 square miles. New discoveries are being made every 12,000 square miles. New discoveries are being made every day, and the time is not far distant when Arkansas will easily and cheaply supply the wants of the trans-mississippi section. -- Industrial Ĝazette.

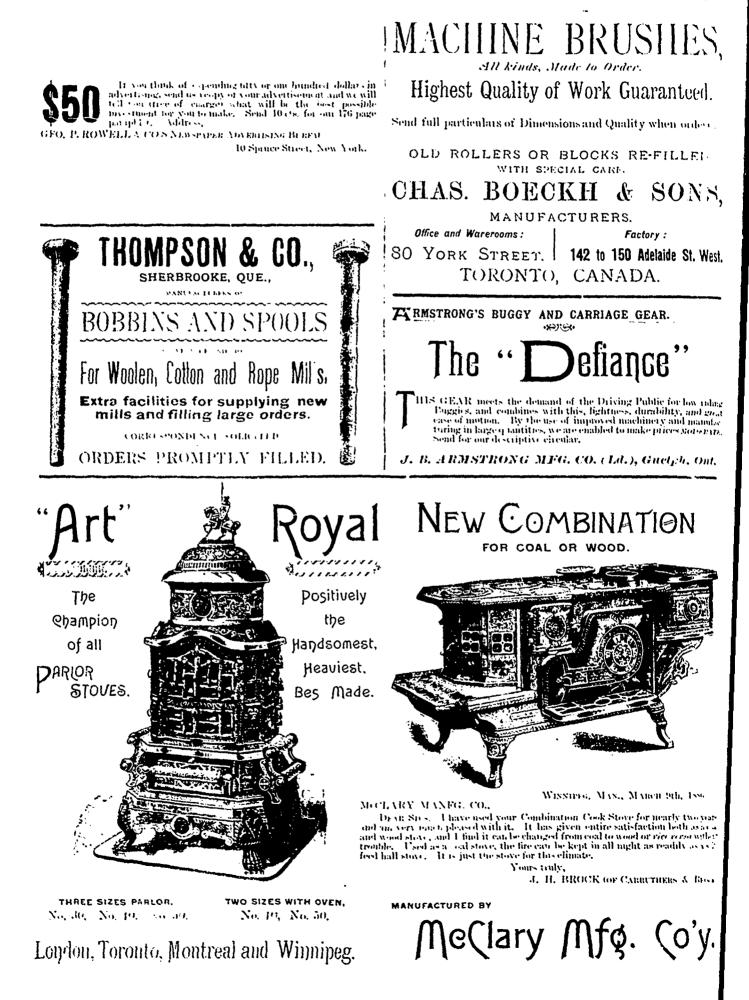
PROBABLY no application of science is developing more rapidly than photography. Among recent appliances is a detective camera in the form of a watch, with a charm to hold a supply of miniature of dry-plates, and a telescopic camera in which distant objects are brought near by telescopic aid and photographed.

A NEW use has been found for the goose. An enterprising firm in St. Thomas, Ont., known as the St. Thomas Featherbone Company, take goose quills, strip them of the feathers, split them into narrow strips, spin these and bind them and weave them so as to form soft, elastic and endurable ribs for corsets and dressmaking purposes. They in addition manufacture corsets, with these ribs as the foundation. It is claimed by the manufacturers that these ribs are unsurpassed for the purpose mentioned and that, although the process of manufacture is comparatively new, they are coming into use very largely in the Umted States and Canada. In any case the goose quill, discarded on the invention of the steel pen, is again becoming a remarkable article.

OREGON wheat growers have long received so little for their product that many have become discouraged and are abandoning this business for other branches of farming. It is quite probable that if low prices of wheat continue that the State will cease to grow any for export. California wheat growing has been largely reduced by the greater profit made from putting the land into vineyards. In Oregon the substitute for wheat will probably be stock-growing. Winters are so mild that cattle and sheep browse all the year, or at most need feeding only a week or two. The decline in wheat growing is directly attributable to the extortions of the transporta-In enforcing their Shylock rule of taking all that tion companies. the product will bear, they have lately done more than seizing their legal pound of flesh, and have been drawing blood. Wages are as high in Oregon and California as in Eastern States, the popular prejudice against the Chinese preventing the supply of cheap labor on the Pacific coast that formerly enabled it to compete with East-

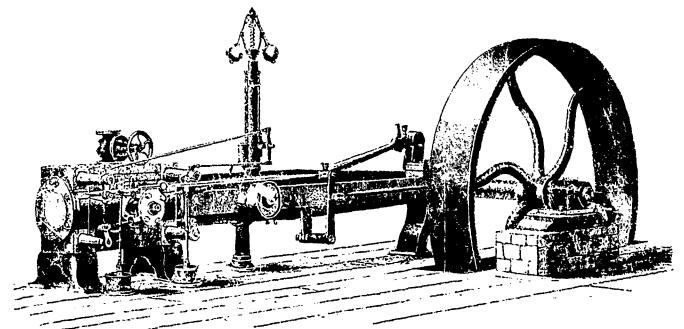
## THE CANADIAN MANUFACTURER.

March 4, 1887



# HE GALT FOUNDRY,

Engine and Machine Works.



# THE HARRIS-CORLISS STEAM ENGINE

Is the most perfect Cut-off Engine made. For Economy of Fuel, Regulating of Speed, Accessibility of all its Parts, it has many Imitators, but no Equals, and is Unsurpassed.

Winle many Engines of the same class have been invented, built, tried and abandoned, the Harris-Corliss has steadily gaued in public favor, and is now

# Without a Successful Rival.

# PLEASE NOTICE SOME OF THE ADVANTAGES OF THE HARRIS-CORLISS ENGINE:

by The Steam is admitted at Boiler pressure to the piston by trouveralic rules en off a the same point, the feed determinating through the relation stream the supply of store wild be coolf. This is the only lagree that thus almute stream at fight he ice pressure.

tor The ancress of the Harris-Corliss Engine (south single typed proceed) and the correst character the Governor is an independent we have an aith meetra osciele the optice concerns regardly of variations in a concernst of rotating parts.

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ate. Regularity of Speed under vaying loads of steam pressure.

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we wedderwyr a dewn wer o o<mark>nr new and Improved Adjustabto Fillow Bloek,</mark> wach is pronomed by al pracheslmen who hwe seen it 'r a flewr, best i Callia

# COWAN & CO., Galt, Ont., Canada.

Manufacturers of Engines, Boilers and Wood-Working Machinery -- all kinds, new Patterns, highly finished.





# FOLDING AND EXTENSION

Iron and Steel

Gates and Guards

### (PATENTED JUNE 8th. 1882.)



Banks, Vaults, Elevators, Public Buildings, Asylums, Factories, Houses, Driveways, Stores, Theatres, Stables, Baggage, Ex-press, Postal and Steeping Cars, Express and Delivery Wagons, Windows, Doors, &c.

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# Ontario Folding Iron Gate and Guard Co.

OFFICE AND MANUFACTORY :

# THE FENSOM ELEVATOR WORKS,

34, 36 AND 38 DUKE ST., TORONTO.

Correspondence solicited and Illustrated Catalogues furnished on application.



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GRIP is now so well known as to require very little of either description or praise. It is

The Only Cartoon Paper in Canada, and it is furnished at about ONE-HALF THE PRICE of similar journals in the United States. GRIP'S CARTOONS,

**CONTROLATIONS**, in addition to being strictly impartial when they refer to politics, are always on the side of patriotism and morality. The late improvements are universally admired. The journal is enlarged to 10 pages, and it is printed upon heavy toned and well-calendered paper. This gives both the engravings and the letter-press a beautiful appearance. And, notwithstanding this en largement and improvement, the price of GKIP is **Only \$2 a year :** Simple Conject 5 cents

Only \$2 a year ; Single Copies, 5 cents, (the price it commanded when but a four-page sheet).

# GRIP'S PLATFORM :

### Humor without Vulgarity; Patriotism without Partizanship Truth without Temper.

**43**<sup>T</sup> Do not be without this favorite Canadian Car-toon Paper. Its price places it within the reach of all.

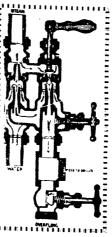
Address the Grip Printing and Publishing Co., 26 and 28 Front Street West, Toronto. New sub-scribers, sending \$2, will receive the paper the balance of 1886, and to asst December, 1887.

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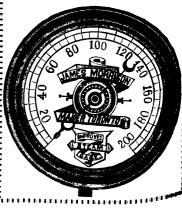
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### ADELAIDE ST. WEST, 75&7 TORONTO.

# SANITARY EARTHENWARE Now IN STOCK | Morrison's Washout Hopper National Water Closet.

Crown Water Closet. Inodero Water Closet. Perfect Water Closet.

- Jenning's Valve Closet.
- Demarest Valve Closet,
- Alexander Valve Closet.
- A full stock of Washbasins, Urinals, etc.
- Also, complete stock of Wrought Iron Pipe and Fittings.
- Brass and Iron Valves.
- Plumbers' and Steamfitters' Brass Work. Rubber Hose, Belting, Pack-
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- Sole Canadian representative of the Celebrated Hancock Inspirator.

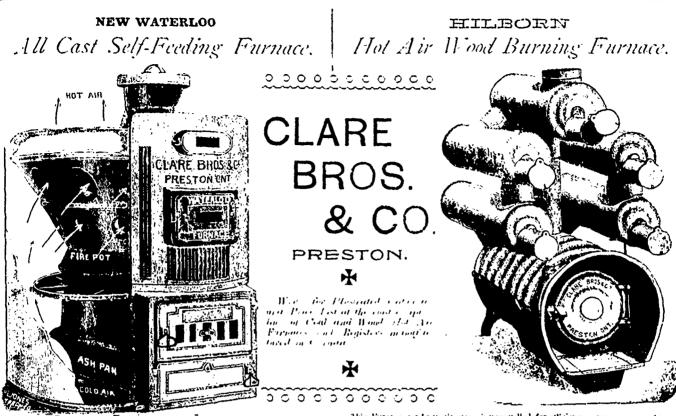


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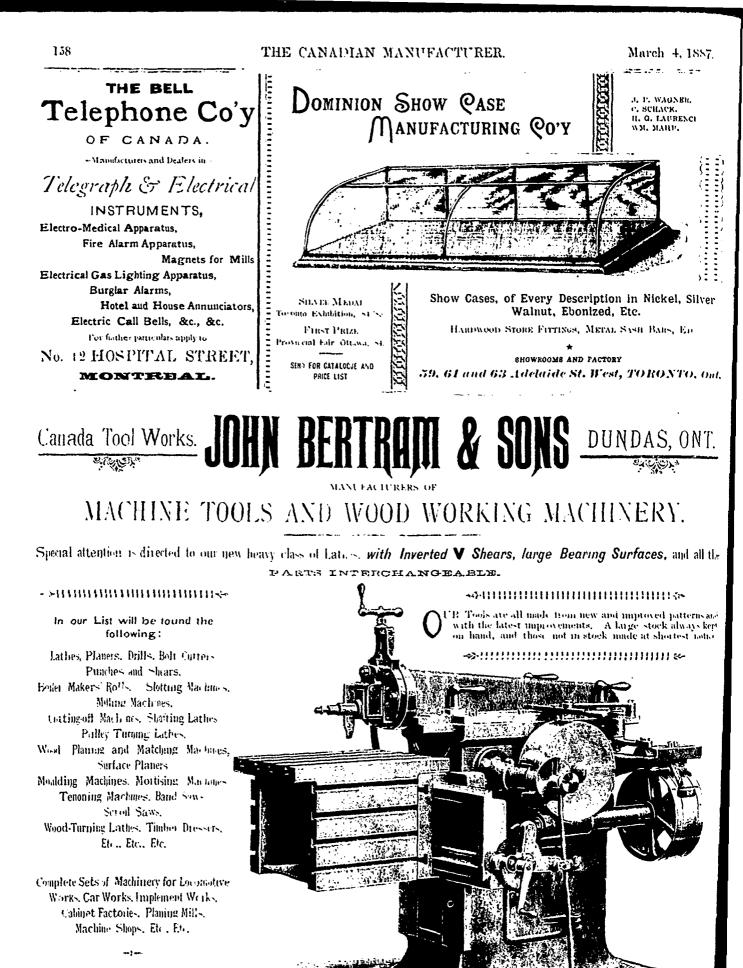
### THE CANADIAN MANUFACTURES



A set in solvance of all others. The most communation has been powerful gas tight be accessed. Can be operated as so deceding or for through the front door. Is fitted was no block dob for Grane the best grate known in a single tracting of the loss powerful gas tracks and the fire surface of all ashes and conjects. The correct solutions are enrough for both, a deep send your if the hottest part, flowing the correct solutions are readtion of the fire storight in the hottest part, flowing the correct solution is solution to the fire storight and the fire storight of the both solution of the fire state most durable potentiate. The Rubitor presents fire times is train sortice to the ation of the fire storight for the both on the both solution of the fire storight for the fire storight of the storight of the fire storight of the storight of the storight of the both of the fire storight of the storig This Furnace, wa to us six sizes, is use qualled for efficiency, economic, exect framcoment, dura duty. Is corrugated and male very heavy. The drawns, e of heavy sizes steed with easy more ends and collar connections), will revet the access as to present the leaving of ground single from unequal expansion and introduce. It has need targets to be for steeral sees, and has never failed to group a strateging at factor to a method single from the years of wood of the the market ration to a method. Farmers who have a supplies of wood of the the market will list there a rest refer toom the vecation and annoyances of anihing down and see the group of comparisons and annoyances of anihing down and see the group of comparisons as shown on eart, or with extra large square doors.



T. H. EATON & SON, Windsor, Ont., and Detroit, Mich., Agents for Ontario. Es Correspondence solicited.



Write for Prices and Catalogues.

BUSINESS ESTABLISHED 1862.

THE CANADIAN MANUFACTURER.

# **Cotton Manufactures**

Awarded the Only "Gold Medal" Given at the Toronto Exhibition of 1885, for Cotton Goods.

# Fancy Wove Shirtings.

FAST COLORS. FULL WEIGHTS Quality always Equal to Samples sent out.

# COTTONADES.

Our celebrated line of Lansdowne Tweeds, the best value, for least cost, of any made in Canada.

### BALL KNITTING COTTONS.

Better Spun, Twisted, Bleached and Dyed than any other in the Market. For Sale by all Wholesale Houses.

No Goods Genuine Without Our Name Upon Them. I NO PRIVATE BRANDS.

> WILLIAM PARKS & SON (Limited), ST. JOHN, N.B.

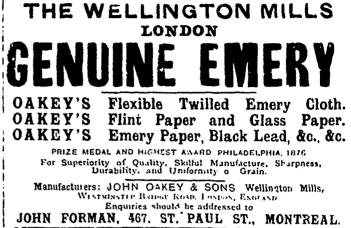
AGENTS : Wm. Hewett, Toronto: Duncan Bell, Montreal; Bedard, Girard & Co., Quebec.



No. 1621. Tile Register Grate, Back and Sides. Embossed Tile Hearths.

Polished Brass Kerb Fenders. Brass Fire Sets and Andirons.





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Berby Line, Vermont, and Rock Island, Quebec.

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THEO. H. FATON & SON, Windsor, Ont.; Detroit, U.S.A. --Importers Every Description **Pure Aniline Dyes** for Cotton and Wool-len Manufacturers. **Dyed Samples** furnished on application. Address all correspondence to Head Office, Detroit, Mich.

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A. S. WHITING MANUFACTURING CO., Cedar Dale, Ont, -- Manufacturers of scythes, forks, hoes, etc.

WELLAND VALE MANUFACTURING CO.-Lock No. 2, St. Catharines, Ont., Can-ida--Manufacturers of axes, scythes, forks, hoes, rakes and edge tools,

#### Bobbins and Spools

THOMPSON & CO., Sherlstooke, P. Q.-Manufacturers of all kinds of Bobbins and Spools for Cotton and Woollen Mills-Special patterns made to order from sample.

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DOMINION BRIDGE CO. (Limited), --Shops at Toronto, Omario, and Lachine, Quebec. Fuilders of Steeland Iron Railway and Highway Bridges.

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- M ARTHUR, CORNELLE & CO. (successions to John McArthur & Son), Montreal.-Offer at closest figures chemicals required by scap-boilers, oil refiners, paper-makers, and by manul currens of woollons, cottons, leather, Ne.

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HAMILTON COLTON MILLS CO., Hamilton.- Denims, ". J.y gs and yarns,

### Dyes, Dyeing Drugs and Extracts.

THEO. H. FATON & SON, Windsor, Ont.; Detroit, U. S. A. Carry full line of Pure bacing Drugs, type Wools and Extracts adapted for the equirements of Woollen and Cotton Manufacturers Paper Makers'Ani-lines at Computer Address the Detroit Once

#### Dye Stuffs.

- MCARTHUN CORNELLLE & CO. (succes sors to Joan McArthur & Son), Montreal,---Supply el Lest quality at closest prices. Every description of coloring materials required by manufacturers of woollens, cottons, silks, paper, leather, dc. Are sole agents in Canada for the celebrated aniline dyes of A. Porrier, Paris.
- LVMAN BROTHERS & CO., Nos. 71 and 73 Front Street East, Toronto-Dye Stuffs of all kinds for Woollen and Cotton Manufac-tures; Warps, Shuttles, Bebbins, Card ( lothing, etc., etc.

## Dyewood and Dye Stuffs, Aniline Dyes.

DOMINION DYEWOOD AND CHEMI-CALCO., Manufacturers.-Pare Dyewoos, Dyeing Drugs. Sole Agents. English, Ger-man, and French Aniline Dyes, for Woolen, Silk Paper, and Leather manufactures.

## - - -Edge Tools

WELLAND VALE MANUFACTURING CO.-Lock No. 2, St. Catharines, Ontario, Canada. -- Manufacturers of axes, scythes. forks, hoes, takes and edge tools.

#### Emery Wheels.

HART EMERY WHEEL CO., Hamilton,-Manufacturers of every description of Emery Wheels and Emery Wheel machinery.

### Files.

G. OUTRAM & SON, Dominion File Works, Montreal .- Manufacturers of every description of files and rasps.

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JOHN DOTY, Toronto, - Manufacturei in anada of the new "Otto" silent gas engine, wo, four, and seven horse power : nd laiger,

### Glove Manufacturers.

W. H. STOREY & SON, Acton, Ont,- Manufacturers of fine gloves and mitts in every variety and style.

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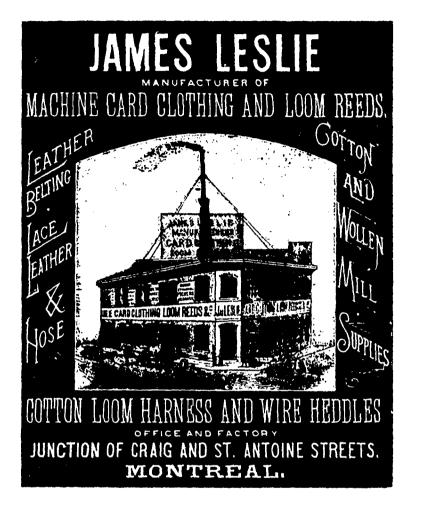
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