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The Celcbrated Yorkshue Sisuting , thit Fulling Soiths,
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## THE POLITICAL SITUATION.

"'Public opinion is the mixed result of the intellect of the community
*eting upon general feeling."-William Ha=litt.

The exact majority which the Conservatives can claim as a result of the late general elections is still a matter of controversy 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 telobe, which is causing considerable merriment by its silly conention 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 $\theta$ is every probability that several of the French members, now claimed by the Opposition because they bolted on the Riel Guestion, will return to their first love when they see that Sir dold is able to retain power without them and that they do not tion in key of the situation. Notwithstanding the Riel agitathe di Quebec, the secession movement in Nova Scotia, and is indeed dowance question in Manitoba, the fact remains, and the pardadmitted on both sides, that the National Policy was proven thount issue in the campaign, and the sequei has munity ati" the mixed result of the intelligence of the comparty acting upon general feeling" was the defeat of the approximich had always been identified with the policy of Blake's ${ }^{\text {Pproximate }}$ free trade. Nor is this to be wondered at! Mr. thorous apparent conversion was too late to be accepted as gency andy sincere and free from the charge of political exigency, and whatever effect it may at first have had on such Waf cocturers as were disposed to be friendly to his cause, our protetely nullified by the unequivocal denunciation of at Weston policy by Sir Richard Cartwright in his speech the eston on the evening of Feb. 11th, only ten days before polls. As this is the third time the people have endorsed the
National Policy, we trust that ample protection to native indus-
try has become an established political principle in Canada and
that Protectionists will not again be called upon to take up
Trms in its defence, and we shall watch with more than ordin-
ary interest the criticisms of the Governnent's tariff resolutions,
Which may be indulged in by Opposition members of Parlia-
ment. Before those most nearly interested-the manufacturers
the workingmen-can feel that their interests are equally
te in the hands of either party, and that protection has ceased
to be political dividing line, it will be necessary for such old
Whe asatanists as Mr. Patterson, Mr. Mills and Sir Richard

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 Gilobe may be credited with contributing to the success of the Conservatives in this Province. The general conduct of the organ during the campaign was simply a disgrace to journalisn!, 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 ('overnment. 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, when it was felt that a general election could not be far off, a number of Ontario's most prominent manufacturers met together in the oftice of the Canadian Manufacturer, and organized the Industrial League, with the avowed object of
doing battle for the conservation of a policy which has now been thrice endorsed by a large majority of the preple 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 bad 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 detinitely 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 tight ; 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 grods 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 reproduc* 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 Industri:a Association, has issued a circular designed to show that the Tory Government have not allowed prison labor to come into competition with
free labor. Young Mr. Nicholls appears to grow morerash 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 Penitentiary 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 reminder that ${ }^{*} *{ }^{*}$ the Dominion Government have done away with prison labor in such institutions as come under their control.
"But, unfortunately for young Mr. Nicholls, the report for $188^{5}$ 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 Kingstun and the work at which they are employed. Here are some of the items:-

> Work. $\begin{aligned} & \text { No. Enploprd. } \\ & \text { Carpenter shops. . . . . . . . . . . . . . . . . . . . . . . . . } 40\end{aligned}$

Blacksmith and machine shops. . . . . . . . . . . . . . . . . . . . . 33
Stonecutters. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 36
Masons . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 36
Tailor and shoe shops.. . . . . . . . . . . . . . . . . . . . . . . ${ }^{71}$
Foundry . . . . . . . . . . . . . . . . . : . . . . . . . . . . . . . . 82
"Does young Mr. Nicholls contend that 71 tradesmen
are
500 required to produce boots, shoes and clothing for less than conviets?
"Then on page 13 of Mr. Thompson's report appears a tabulated statement of the value of the goods produced, exclusive of the cost of material for the year. In the tailor and shoe she ps 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. Moylad officially reports that the cost of clothing in all was but \$5,488.09.
"On page 7 of this same blue book, under the heading, ' The Dominion of Canada in account with the Kingston Penis, tentiary for the year ending 30th June, 1885,' the first item the ' By convict labor, $\$ 9,862.36$.' On the opposite side of the page appears a statement of the various monthly drafts sent in the Minister of Finance, showing that the Dominion derived it revenue from the penitentiary no less than $\$ 10,929.67$. So was at St. Vincent de Paul, Dorchester, Manitoba and British Columbia.
"The total value of labor, exclusive of material, on worl" done in the Kingston Penitentiary for the year ending Jupe 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, $w^{98}$ 841,446.42.
"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 to wrote a short but concise defence, but the Gilobe, in order to sustain its well earned reputation for unfairness, refused to give it insertion, although the mere fart of being convicted of one extra campaign lie more or less, could not possibly have drawn upon itself much greater discredit than by common $\boldsymbol{c o n}^{-1}$ sent 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 Penitar tiarles, the Gilube quotes from the blue book of 1885 , but whic in reality deals with the year 1884. We did not claim that to the Goverment never employed convicts or allowed them to be employed in making goods for general sale, but simply futed the statement which appeared in the London Advorticon
that boots and shoes were now being made at the Kingston Penitentiary for the outside market. The Gilobe 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 Governinent, 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 proSteess, or, perhaps, even because of its progress, is all the time getting poorer. To this view Mr. Edward Atkinson, of Boston, One of the most eminent among American statisticians and ${ }^{0}$ onomic writers, decidedly objects. On the night of Tuesday, the 15 th 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 ${ }^{n}{ }_{0}$ going on than the expression coined by Henry George. $\mathrm{H}_{\mathrm{c}}$ said he did not share in the apprehensions of some people over these troublous times. If the labor element were half as ${ }^{d}{ }^{\text {angerous as }}$ it was pictured by some our cities would have been destroyed twenty years ago. Mr. Atkinson compared a ${ }^{8}$ the ${ }^{\text {me }}$ 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 greatdisparity was in their control of their time. There was of capital to-day than men capable of using it ; the capital of ta-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 rail$\mathrm{rmad}_{8} 112$ miles 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 chcap at that: As for Congress going out of its prescribed course to regulate railroads, it would ${ }^{\text {better first try regulating the bakeries and butcher shops in the }}$ $\mathrm{D}_{\text {istrict of }}$ Columbia, and possibly it might in time learn how ${ }^{\text {to }}$ 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 "ould 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 ligher 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 aud increased production, Henry George's theory, if carried out, would help the poor man little, and it can't be carried ous."

## TRADE WITH aUstralasia.

We have recently received a letter dated at Sydney, N.S.W., from Mr. Alexander Woods, Asent-General from Canada to Australia, and as it refers to a matter of interest to some of our readers, we quate the frllowing 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 husiness and shown the possihilities 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. Wools was appointed by the Govermment 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
its industrial resources. The following are the figures for 1882 , the latest at our command :

| Colony. | Imports. | Exports. |
| :---: | :---: | :---: |
| Victoria | (8 91,237,536 | \$ $78,806,052$ |
| 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 |
| Tasmania | 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 anount 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 trude | 8216,2×7,149 | \$162,764,220 | \$379,051,369 |
| Intercolon'l trade | 94,411,424 | 83,642,905 | $17 \times, 054,329$ |
| 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 Coldinyhame, 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 pack ages stoves and ranges, 224 packages hardware, 14 packages pumps, 1 wheel, 39 axies, 12 rims, 75 shafts and poles and 127 packages carriage material, 206 cases sewing machines, 1 case oars, 200 oars, 45 packages blacking, 3.5 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, $1 \cong 1$ 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, 14 m . 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 eases toys, 11 cases soarp, 14 cases confectionery, 17 cases paper, 14 cases tinware, 400 cases corn Hour, 500 cases beer, 600 barrels beer, 5 barrels skewers, 17 cases wringers, 177 packages axle grease, 94 packages plated ware, 21 packages tills, 11 packages photograph material, 12 packages cages, 44 crates dairy material, 10 boxes toothpicks, 114 doors and sashes.

Amongst the items of the cargo of ship Beaconsfield, 1,450 tons, New York to Melbourne, October 8 th, 1885 , are found :$\cdot 2,521$ cases axes, 125 packages carriages. $\times N 1$ cases chairs, 189 packages wagons, 402 cases drugs, 473 cases glassware, 299 cases hardware, 54 cases plated ware, 163 cases sewing machines, $3 \times 5$ 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 shooks, 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 adnits when pressed on the subject. But some there are from whom no such adnission 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 ceremonie, 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 must make, however ; the duty on cornmeal would certainly have to go, he would not defend that by any means. At cornmeal 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 seceral 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 sig. nificant admission yet made, from the other side, that the National Policy had public opinion at its back. For, remem ${ }^{-1}$ ber 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 ${ }^{3}$ sate 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 onemies of theN.P. thought it might most effectively be attacked. But the solid truth of the matter is that Mr. Blakehad inade 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 Pro vince aforesaid. on Saturday. January 22 , in the year of grace 15K7.
Had sir John's majority been on this occasion not merely reduced, but altogether swept away, it would not have been
because the country had repudiated the N. P., but from quite other causes. The N. P. was visibly Sir Johis 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-${ }^{\text {are }}$ 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 Erench of both parties will support the N. P. whenever the straight $i_{8 s u e}$ comes before them-are two things that together go far to make the N. P. safe for the future, and to show that the conentry is for it and not against it. And this is mene very sure and obvious meaning of the result of the recent elections.

## OUR CARD BASKET.

THE following is a list of those who have favored us with a cull since the date of our last issue:
W. R. Smallpiece, of Messrs. W. R. Brock d 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. Car-
lile, of ${ }^{\text {Lile, }}$, of the Manufacturer's Life and Indemnity Insurance Co., Toronto: Frank D. Shallow, proprietor Moniteur du Commerce, Montreal ; Ed. Gurney, stove manufacturer, Toronto ; R. McKechnie, Dundas: Thomas Cowan, of the Galt foundry, (ralt ; John Bertram, of John Bertrain \& Sons, Canada Tool Works, Dundas; James Goldie, miller, Guelph; James Kendry, manager Auburn Woollen Mills Co., Peterborough; - HardMan, of Robin i Sadler, leather belting manufacturers, Montreal; Geo. Ingils, of the Geo. F. Blake Steam Pump Manufacturing Co., Boston : Thomas 1). Beldoe, of the Ham ilton Rolling Mills Co., Hamilton; A. Gartshore, manufacturer of iron pipe, Hamilton; M. B. Perine, twine and cordage Tonnufacturer, Doon: J. F. Ellis, of the Barber \& Ellis Co., $D_{0}$ nto; (ieorge Booth, coppersmith, Toronto: Charles Knees, Messrsin Cordovan Tannery, Milton ; Thomas McDonald, of W. (G. McDonald if Kemp, tin stamping works, Toronto : $\mathrm{W}_{\mathrm{il}}$. A. Hemming, of the Toronto Case Co., Toronto: R. T. J. I. Ge axe manufacturer, Dundas: (ieo. F. Cleveland, of Que. Goodhue d Co., leather belting manufacturers, Danville, Wue.; Wiver Wilby, of the Weston Woollen Mills, Weston; W. H. Storey, glove manufacturer, Acton : Frank J. Phillips, of the Coblan Manufacturing Co., Toronto: W. K. McNaught, Secretary American Watch Case Co., Toronto; Peter Lawson, $t_{\text {thner, Port Dover ; W. Millichamp, show case manufacturer, }}$ Saronto; 11. E. Clarke, M.P.P., trunk manufacturer, Toronto,
Mamuel May, billiard table manufacturer, Toronto: James

## $\mathfrak{Q i t e r a z y}$ Totices.

Bradstreet's, the weekly financial and commercial newspaper $p^{u b l i s h e d ~ b y ~ T h e ~ B r a d s t r e e t ~ C o m p a n y, ~ i s ~ n o w ~ i n ~ i t s ~ f i f t e e n t h ~}$ 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 rearhed 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 : early 100 branch oftices, and its small army of over 1,600 salatiad 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 thade throughout the country, thus practically making horilstrets an authority as to the condition and prospects of the commercial world. It needs but a glance at the newspaper to satisty any one that its publishers have been ambitious rather than avaricious. Files of Bradstrepts have become an acceptable and almost indispensable journal for progressive husiness men.

To remove kerosene from carpets lay hlotters of suft 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 bu, whes: they have warm blood; they give milk to their young, and mally. they would be Arowned if they were to remain longer than half an hour under water.

The Ruman soldiers, who built such wonderful roads, and carried a weight of arnor and luggage that would crush the average farm hand, lived on coarse brown bread and sour wine. They were emperate 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 rlives; 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 heary work of the world is nut done by men who eat the greatert quantity. The fastest and hongest wimled horse is not the biggest eater. Moderation in diet spems to be the prerequisite for endurance.

Consmprabre interest has lately been manifested in a statement published by M. Villon, a French chemist well hurwn for scientitic research, that he has disenvered an alkaloid poison of pronounced characteristics in decayed animal tissues. This poison is quite powerful, a dose of five centigrammes being sutticient to kill a dor. The interesting point in M. Villon's researches is the fact that. in his investigations, he appicd 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 Hour hats a peculiar appearance and a fonl. canstic, pungent, bitter Havor. It tastes hot and stinging, somewhat like pepper, acording th: the stage of decomposition. Dough made from it is also hitter to the taste and offensive to smell, and it crumbles in hot water and affects injuriously the stomach. Plagues have heen attributed to the use of decayed Hour, the great plague of 1 som in Rome being cited as an instance. Wheat flour speils very easily, especially in the months between March and August, when a fermentation sets in that goes on throngh the succeeding months until the spoiling is complete.

## W. R. BROCK \& CO.

Is 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 tinancial manager for many years past.

When the country tirst 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 tirm used to import from the United States alone upwards of $\$ 120,000$ worth of staple goods annually, but today this large import has been reciuced to less than $\$ 10,000$, the difference, with a large increase, being entirely replaced 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 iminense 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 iminense 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 difficultics arose, this tirm-as a manufacturer not long since told us - did not ruthlessly condemn, but gave wise counsel and 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 contidence 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 d Co., Preston: Waterloo Woollen Manufacturing Co., Waterloo, and others. In staple cottons and knit goods the firm also buy largely of every representative Canadian manufacturer of these lines. In a cortain line of fancy knitted woollen goods, such as clouds, hoods, gaiters and kin dred articles, every manufacturer knows that it was prophesiod
that Canada could never, or at least for many years, be able to compete with such centres as Leicester in England and Ger mantown in the United States, but to-day, as 8 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 sinoothly 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, haberdashery, 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 NorthWest Territories.

## A NEW TOBACCO INDUSTRY.

J. R. M'ALPINE, OF NEW YORK, all READY TO START operationg 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 executed, and the factory is ready to start. A few samples will pro bably be made this week. The moneyed men of the concern are Mr. J. R. McAlpine, the great tobacco man of New York, and Mr. John S. Williains, also of New York. Mr. McAlpine has made several visits to the city since Jan. 1st, and Mr. Williams has taken up his residence at the Queen's.
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 "hlackstrap" will be omitted. Cut smoking tobaccos, in packages and bargs, so popular in the United States, will be s 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 get. We will put up any amount of money if we can get business for it." Six floors have been fitted up.

This will be the only tobacco factory in Toronto. There are only two others in the Dominion, Macdonald of Montreal, and Tuckett \& Billings, of Hamilton. Mr. McAlpine's New York factory covers a block, and is one of the most extensive in the United states. Before deciding to begin operations in Toronto, Mr. Williams said, they surveyed the field very carefully.

## F. E. DIXON \& Co.

Patent Lap-Joint, Star Rivet

##  <br> Z̈he ()nly Perfect Belt Inessing:

II' will make the leather more dirable.

It will effectually present the slipping of the belt.
It does not affect the cememt which holds the laps together.
It does not increase the stretching of the belt and thus render it narrower.

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 whe run their belts in ice houves. Indoors or out, ili an! kind of weather, wet or dry, hot or cold; belts thorouglil dressed with Phounix Oil will always run satisfactorily.

SEVU FOR PRICE LIST AND GiRCULARS.
And wur Latest Pamphlot on Belting.

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\text { F. E. DIXON } \& \underset{\substack{\text { FO KING STREETO EAST, } \\ \text { TORONT. }}}{\text { CO. }}
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And 50 per cent. Lighter than Wrought Iron or Steel P:I/leys.


## READ THE FOLLOWING.

Gentlemen: You ask why we use the Dodge Patent Pulley, August 15, bection
we consider them the cheapest, most convenient and satisfactory in all particulars.
Yours truly, $\quad$ S. R. Stimson, General Manag
C. L. Rice, Agent, Chicago, ill

Office of Newton Wagon Coish $\}$ Batavia, Ill., Feb. 17 , dode Wo Split Pulley for a year or more we are sarisild say that after using the Dodge be Pulley made, and shall use them hereafter in preference to any other we know of. Yours truly,
We have sold these pulleys for one year and they have kidd service, and their popularity is wonderful We refer have been puing users for pry of the above statements: Pillsbury \& Hulbert Ele the following apolis: R. Min Co., Elevators; Northern Pacific Elevator Co. The Pacific Elevator R R Minneapolis Harvester Works: Minneapolis School Furniture Co. M. \& St. L. R. ${ }^{\text {Ro }}$ St. Paul Roller Morthway, Washburn, Crosby \& Co.; St. Paul Electric Lighi Minn., and very many others. Shatto \& Dennis, Minneapolis, MiN
W. H. Dodge, Prest. The World's Industrial and Cotton Dodgr Mfg. Co., Mishawaka, Ind. Centennial Exposition. 19,1895 . number of your Patent Waw Oleans, March in use her
 Lighting. They are doing heavy work and are held, driving Dynam the conof. yren of wood on iron. They hold firmiy and do not 1 have matched wo Sreat deal of interest the many Pulleys of your make running at this Exposition ing points of the best Pulley Thave ever seen. I believe them $t$ - possess the belt surface ; best shaft any other Pulley: All Putleys being split or in haves of ferent sizes ; best balance: lightest on the shaft strung Pulleys to sadurable heartily recommend them. Yours very truly, Chis S. H. GrLuAN, dear

## Waste of Povier.

According to the best acientific authority it costs one horse power to keep in tos tion one ton of metal or weight; thus for every unnecessary 2,000 pounds weigun your line shaft, cost you one horse power. To maintain a horse power costs from cessary weight by Heavy Iron Pulleys, too tight belts, pains to investigate the to the enormous waste of tover consumed in this manner. ©0, 000 Dodpe Pats Wood Eplit Pulleys now in ume. Our capacity manner. ©0,000 Dod pullesp day, we shall hereafter keep in stock for mmediate shipment all sizes.
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# THE DODEE WOOD SPLIT PULLEY COU, 

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We beg you will note this fact when comparing our List with others which are for Solid Rim, and NOT for Pulleys in halves.

## T王且

# (Tanailian \#anulaqfuter 

## AND INDUSTRIAL WORLD.

Pablished on the first and third Friday of each month, by the Canadian Manufacturer Publishina Co., (Limited). 6 Wellington Street West, - - Toronto.
ANNUAL SUBSCRIPTION, IN ADVANCE, $\$ 2.00$.
CARD OF ADEERTIGIME RATEB BEET ON APPLICATION.
EdItor: FREDERIC NICHOLLS,
Secretary Canadian Manufacturers' Association.

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Geo. Wing, Hanilton.
$0_{00 \text {. Wresing, Hamilltor, Montreal. }}$
W. G. A. Hemming, Toronto.

All Manufacturers are invited to become members of this Associa-
tion. Full particulars will be furnished on application to the
focretary.

## Gditorial 9lotes.

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 Canda'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 1850.

Bulletin No. 1, respecting the Dominion (Government Central Experimental Farm, has been issued from the Department of $\Lambda$ griculture. 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 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 ou another page from the Textile Record.

The twelfth annual meeting of the Canadian Manufacturres' 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.

Ir seems to be about time that a halt was called on the natter 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. helow wages at Albany, yet the eastern $\mathrm{men}^{\boldsymbol{n}}$ earned the most money, because they had a better market and 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 sustain 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 penitentiaries, 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. The 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 Adans pictured as "at once reasonable, equitable and crrtain, permitting 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 specio mens of the genus "boodler." But our cute neighbors across the line are bound to keep in the front rank, even in "bood-
ling" transations, and an American preperecords the following incident as one that boats nll previons reeords:-" ('shier Baldwin, who wrecked tho Mechanics' National Bank of Niowark to the tume of 83,1 unu, 1000 , and who, after less than five years inprivoment has been released on a tealmicality, is seported in the N. E. Iributu 'to bawe samed somethine wht of the "rect' The same paper adils, that' while in prison he made arme ber partmeship in contmets' - that is, prison rontracts. Ju- bimey the idea of a jail-hird makimg money ont of contrut in connection with the prison in which he was contined. bront that beat the Jews?"

Hs HRocom is now the questien of the day. the Buttor-
 rib, ore omewhat qualiferl its yatriotie utteranere of the dity beine with the sage remath. in sulsstaneo - latat wally there was as geod de.al to bre sain oh, both sides. Int the same day




 (un with it mass of matter on the sulpert. bergu in our last wire and continued in the besent one sere on other yages
 irede. "hach iv quickly lest in the cialy papers, bue which in ar whans will be iound convenient Ear after reforence. Also He wombable !etter oi " (Inlowker," (whied from the Mail.

Tist Ifoulreal Merald, a prominent Keform ןaper, admits that th. \aiomal Police was the paramonn issue in the recent wite : and angues that had it mot been fur the contralictory
 have had a victary to record instrand oi a dofrot. The fellow. : - buntre has now three times pronomaced its opinion on the Saturnal Policy. Every sprech delivered at that is another lof pieked from the Libral tree. If there ane any leadres of the patit! who do not frankly and honestly intend to abide by du derision of the people they will do well ws say so at once,
 thensums of Liberal voles have been yuicily polled for (ats. .r. .tar candilates hecanse of this guasieconomic eriticism of
 In whid that they da wot whlorstame their own businese, :nht: wha greliey which they havetried andewice comorsodisablunder wa erime. If the Liberal jatry wial not adopt the Natomai! Phiny woll and prond-let it be so understond: if they interid fubse :י the will oi the perghe it should be mate clear that lhere is no rwen in the party emmeib for those who prefer 20 ilevrize in :un opursite: direction."

The Ottawa correspondence of the leail of the lst inst. matains the iollowing item in weremer to the extension of our incregn trath relations:-"With the vinw .oí oncouraging Siser trale relatimas between the Wion Indmanal Camadia, the Fidem :uthoreies recently rommissimed Mr. John F. Wylde, aretimel Haliax merchant, to visit those eolmies ats well as ta adiant Spanish I land and report on the bet menans it
binging about ais result. La a lenter to the Deputy Minister of Marime the vommissioner, witin! from Kingston, Jamanes, under date of lonth inst, states that he has alverady visited Havana, Porto Rivo, samiago and san Juan, and nepmis that fin all there places le foumd the merehants greatly interentod in
 : have been held the following werk, when he antucipated that, resolutions in faror of dover trade reiations with Canada
 I tigations, that two steamers of about one thousand tons regis-

 ceiving grod freight support. Sumb communiantion, he con-

 bext month.

 sitates more properly alled inmexition. the Cilobre eques out I .ddly on the cher side, and syes that seretiment. and patriotism, and bide. ci connection with the Mother Country, must weigh something with (imadians, as well as the argument of dollatrs and cents merely. Well, we welcome the Globe as it new ally on our own side, which is that of the commercial indepmodener of C'unda as a pare af tho Pritish Empire. Still, we ar sory to lose the advocaty of the Mail, which must henceiorth be regarded as working ier the extinetion of Canadian nationality, and the absorption of the Jominion ia.to the [inited states. However, the Gilon, being an extremely | youns colvert, haxl hetter show its surarity by explaining is litele ejxcmmstame to which we deen atrention in our issuc of Fill. l-h. During the closmer montin oi fisis there appeared proty irrymandy, in the Giobe's columia, its prospectus for lsett. Therein the principles which the prape would stand by ivere net forth, and among the rest there appeared the follow-
 :adrocates armatriefod Comuncreial leaciprocity wilh the kindred |people of the l: nited states." On mew ally will much oblige -by explaining what "mocstricted conmorcial recipuocity" 'Ine:ns, in phain Enelnsh; also wherein its own position on the question, as ilways understood by the public up to the date of - tak:•n. is an organ of Commercial Vmon amd smenatiun.

ENomsh architeds are alvising that rooms should he provided rith many wam inlets on the thor line. and an outlet at the ceiling.

A 13emans bextile mamufacturer has devised a precess for taming 'rextle falties wheh renders them raterpoof and prout ag:iust hlecay, wathout increising their weight.

 furr in f.lliona


Cumer the heail of bomistmils are ineluded all tho cereals amel the mesel and flum namde imm hem, and under the heal of provisions are includid hecef, t:llow, proth, hard, Intter, and checeic.

# Special $\mathfrak{I R}$ eprints. 

## 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 UnitedStates 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 feasibie 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 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 Corgress 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 effiective, 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 lisheries of Canada, which are the largest, the richest and the most accessible in the world. Twenty-five hundred miles of sea const in the Atlantic alone, a
distance almost equal to that from Cape Cod on the Atlantic to the remotest point on the Pacific--three thousand miles the Pacific and inland seas-in all over five thousand five hundred miles of coast in a northern latitude, where the fish at its tinest, is as much a national possession of Canada as art.
the prairies of Illinois or the forests of Maine. Fish foou frout the prairies of Illinois or the forests of Maine. Fish food from
the Polar regions, brought to these coasts by Arctic currents the Polar regions, brought to these coasts by Arctic currentin
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 yod 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 come petitor without some compensation or consideration is to give up the advantages of geographical location and proprietar, rights as distinctive as any other national right. This is not, however, the proper place to discuss this question. It is sid ply alluded to because it shows the advantages which come to the United States if the entire fishing facilities of vast coast line could be thrown open to her enterprise industry. The harvests of the sea have been but skimmod, Properly cultivated as they would be with open markets this vast country, and as a reward for American enterprise the investment of capital and skill, the food products of 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 th ranches and prairies this element could be drawn upon for
large contribution towards the sustentation of human life 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 whicd the United States might well avail themselves of. Take, for instance, the article of wheat, and recall the steady growth northward of its production. Within the memory of most middleaged men the Genesee Valley, in New York State, was the grat ${ }^{\text {git }}$ wheat producing region. Rochester was called the Flour City because of its once famous mills now idle. Then came Obio, then Illinois and Iowa, but now, in these later days, the production of wheat for export and for the sustenance of the peop is contined largely to the northern regions, such as Minness Dakota, and even Montana. Has anyone yet realized whe this northern tendency means, and how far it will affect in great Canadian wheat producing regions? Why it is that ind Manitoba and the North-Western territories wheat is produced to the greatest arlvantage 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 gronnThese 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 the sun's rays the exudation is constant, so that dry weather ald drought lose half their terrors. With these and other adrad tages, recall the fact that there are yet three hundred and seventy five millions of acres of agricultural lands to be brough the into cultivation in the Canadian North-West, and that tho wheat zone of Canada covers no less a space than one millio 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 Unito
States can enjoy therein a market for her agricultural imple States can enjoy therein a market for her agricultural inple
ments, her boots and shoes, and all her other manufactur
and her natural products, without let or hindrance, or without Northy whould she not do so? The rapid settlement of the orth- Western States makes certain an equally rapid settle of North-Western Canada.

## THE HUDSON BAY RAILWAY.

$d_{\text {ln }}$ outlet, via the Hudson Bay route, for the railway system, the Cana the last two years has been used as a supplement to Hipeg Cada Pacitic Railway, is almost a certainty. With WinOpog as near to Liverpool as New York, with an Inter-State mmerce bill, which in the United States disturbs and upsets Bay revolutionizes the charges for transportation, the Hudson Railway is more likely to be built than ever before. Why not all this vast territory be made tributary to the th and progress of the United states by breaking down he barriers to commerce between them? But it is not in and wheat alone, or in the regions of trade which produce to the greatest advantage, that a temptation is offered to trade and commerce of the United States.

In the single article of timber and lumber this vast country Tould receinge article of timber and lumber this vast country
Other andage far greater than on ahnost any article. In Canada there are sixty different kinds of and the forests of pine, of which there are nineteen possess for the United States an attraction of the possible character. Think of the denuded forests of ne and the Saginaw and of the treeless prairie lands of the , and of the necessity and activity of building in the East, compare how inadequate is the supply of timber for necessities of these localities. In British Columbia alone importuer industries of that province will rise to immense Mportance. To have free access to the vast forests which $d_{a}$ controls, and to have, without taxation or any barrier in the shater, the best that the North American continent affiords dente shape of woods, is to place within the grasp of the resigreatest ve United States a facility and advantage of the est value. At present a twenty per cent. duty on Canaumber just adds so much to the cost of the creation of A freedom of commercial relations between the two conatries A freedom of commercial relations between the mang ${ }^{0}$ aing his own vine-clad cottage, and changing from Comtheir ownd Anarchists men who were proud to own homes of are nown. But aside from fisheries, grain and timber, there nova scotian coal fielus.
The the matter of Nova Scotian coals for the Eastern States Only in vantages of the Eastern manufacturer are clear. Not tories thova Scotia but throughout the North-Western terricoel repere is a possibility of the widest development of the there regions. In Saskatchewan, Athabasca and other points of the nre workable seams of from four to ten feet in thickness Hountaing kind of coal, and in the upheavings of the Rocky the Canas the highest grades of anthracite are reached within ${ }^{n}$ wanadian border. So far west as British Columbia coal is pir baing shipped at the rate of throe hundred thousand tons price, not to San Francisco, where it commands the highest , notwithstanding a duty of twenty per cent. against it. I details to ocean, within the Canadian border, the g ologihich oug show great riches in the coal-producing territory, ought to be available to the United States by breaking all commercial barriers oetween it and Canada. Not ast of the advantages which would result from a free thosphates relation would be the development of Canadian attentions, which of late years have attracted a good deal of The production has increased from five thousand 1885 . Tundred tons in 1877 , to twenty-five thousand tons in ertilizingere is nothing which the South so much neers as the Wortilizing forces which Canadian phosphates, properly treated,
whild furnish
Which it is needle There are numerous other natural products
Wich is needless to mention, but including copper and irom,
productive available for development. Almost a continent of
power, possessing more than the ordinary natural
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 sacritice 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 contirm 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 a vail 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 is might materially lesson the loyalty to that throne. Viewed, therefore, fom both a British and Canadian point of view, there seems no sufficient barrier to prevent the carrying out of the proposition that amplete 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 difficulties in the way of a proposition for complete commercial intercourse, but they will disappear as they are approached; and if the New York Board of Trade and other liberal com. mercial bodies entertain favourably the idea; if it is made the subject of discussion and investigation, it is believed that good results will follow. No better mission can a man have than to 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 IMPENDIN( REVOLUTION.

## (T'o the Editor of the Mail.)

Sir, - Your estimate of Sir John Macdonald's difticulties 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 complications with the United States, may stultify itself and sacrifice us by requiring us to surrender to the United States, without any substantial equixalent, the privileges of which we leprive 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 Camadian point of view, to be preferred? Of course we cannot consent at this day to being sacriticed in the interests of England, and there is no reason why England should ask us to do so. If anything of 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.

The true solution of the problem is reciprocity of both trade and fishing privileges, as you have so ably pointed out. But
how is this to be brought about? If the American people come
to us offering friendly relations and free trade with one h and active hostility and non-intercourse with the other, wh will Canada accept? To ask this question is to answér it. Government could last six months in this country that prefer retaliation to reciprocity. If Congress would only p the Hutterworth bill the thing would be accomplished, for it just what every Canadian province needs.

The chief difficulty in the way is the implied discriminatiol against English imports, hut if England consent to that in to int interest of peace, why should we made any to ouble about
The true "National Policy" for Canada is to promote her ${ }^{\text {on }}$ The true "National Policy" for Canada is to promote he Britain or the United States. If it is to our interest to the isheries dispute by means of a treaty of free trade, let do so ; but let us, whatever course is taken, act indepen and for Canada.

Yours, etc.,
Onlook ${ }^{(R 2}$

## SOMETHING FOR KNIGHTS TO PONDER.

There is one feature of the recent unsuccessful strike freight handlers and 'longshoremen which cannot be too sh ously considered by those who were plunged into the idi movement through their belief in Mr. Powderly's dictum "an injury to one is the concern of all." It is estimated fully 4.000 of the strikers who were working before the $\operatorname{tr}$ are now idly patrolling the streets in search of employi This means, of course, hardship to be endured by them their families while their enforced idleness lasts, but it peril far more than this to these deluded followers of Powderly. means that 4,000 new men, who were incapable of conpet with them for labor before the strike, have been partially br in to do their work, that some of them are as competent alr to do it as the strikers, and that all of them will be trained in what little skill is required properly to stow a in a very short time. The strike has resulted in this case in just about doubling the supply of available men to do the woy along shore just as the Third-A renue Railroad strike resuly in adding to the supply of experienced car drivers and dimil. ished by it much the prospect of a successful contest with road employers in the future.
This is a feature of strikes which is seldom thought of by $t$ engaging in them, but it is in reality the most :larming so far as workingmen are concerned. The main cause operates to give reason for complaint to laborers in the reduc of wages is the surplus of men able and ready to take their places at cheaper rates. Employers, while they are as a rule resay engage the cheapest labor, the quality being equal, are ready to engage green hands in any great number and subat to the annoyance of having to teach them their duties. for this the tield of unskilled labor would be far more sively overstocked than it is now, and wages would d proportionately. The 'longshoremen and freight however, by this last strike have forced employers to create the supply for the demand which they would not meet, and of result is an addition to the ranks of this class of laborers add about 4,000 men who have learned the business and no
the places which the strikers vacated. Knights of Labor can the places which the strikers vacated. Knights of Labor
spend their idle moments to better advantage for a spend their idle moments to better advantage for a
than by pondering over this immutable law of cause and and applying it to themselves before they engage in a strike upon such baseless grounds as those which precipit the last disastrous failure. Wew York Paper.

## FAIR FREIGHT RATES FOR ALI.

## (New York Timex.)

It was the notorious abuse of power shown in unjust ination as regards freight rates that served as the and strongest argument in support of the Inter-State merce bill. No one could openly oppose those clauses in
bill which forbade that unjust discrimination which had
etly used for the enrichment of favored persons and the bill and ruin of their rivals in business. Now, when bill has become a law, railroad men who assert that the ning of certain other provisions of the law is not clear adthat the clauses relating to discrimination are so plain that
cannot be two opinions about them.
The bpneficial effect of an enforcement of the law forbidding are fampiliar with the ean be fully realized only by those who Which the diserime the extent of the abuse for the suppression of ch the discrimination clauses were enacted. The evils of Btanation can be shown most forcibly in the history of ftandard Oil Company and of the trade in cattle and beef, 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 supplied by railroad companies the Standard Oil Company pald not have crushed independent refiners and given to its other fields enormous fortunes that are now being used in tighteen fields for the suppression of fair competition. In rad companths the Standard Oil Company received from railThempanies $\$ 10,000,000$ in rebates. This great corporation third of the rate exacted from a humble wival in trade onedempanded in adde exacted from a humble rival in trade. It the Cleveland that rival. For example, the proposition made to ndeveland and Marietta Railroad Company, then in the $O_{\text {nited }}$ of a Receiver, $G$ n. Phineas Pease, appointed by the coiver's States Circuit Court, was stated as follows by the Re"You counsel:
a) You shall make a uniform rate of 35 cents per barrel for Persons excepting the Standard Oil Company; you shall one them 10 cents per barrel for their oil, and also pay pers."
The Receiver's acceptance of this proposition, devised for the
equrrender of crushing George Rice, an oil retiner who had not
from the Standard, caused the court to dismiss him fice.
e will now be fair play if the law shall be enforced. monopolies in trade can no longer be built up and supin this way. The day of discrimination has passed. The
ciaccess of the Standard Oil Company suggested the by of similar combinations for the control of other proby means of rebates and discrimination in rates. Not acture and sale of thour should be controlled by a the od to be called the Flour Trust. If this project had been an attempreat flour mills would have entered a pool, ht rates, and all the other instruments used by the oil poly, to absorb or crush other mills, and success would ad price of one corporation to control absolutely the supply * beard of that great staple. But the bill was passed, and the Ameri no more about the Flour Trust. It now appears that Sterican Cotton Oil Trust, a corporation modelled after he Cotton Oi is to be confronted by formidable competition. tenth8 of the cotton oil factories, and with a capital of about $10,000,00$ it proposed to monopolize the cottonseed oil astry. Under the old conditions it would have been able
means of tors whe of secret low rates on the railroads to crush compet-
the busin would not come into the pool, or to drive them out of hider or its oil or its other products at rates lower than those hich the owners of independent and competing fact ries must The law will protect competitors. For this reason capTrust. Deen encouraged to enter the field in opposition to aition. Despatches published yesterday show that an
000 is npany with a capital of from $\$ 5,000,000$ to $\$ 10$, is now in process of formation and that it will operate
about thirty large oil mills in the cotton belt. We venture to 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.)
Nothina 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 ques tion 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 comuerce 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 $n$ 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 var 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 IJuly 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 centre of condensation.

# dron and 9 Rachinezy. 

BUSY IRON WORKS.

A few evenings since a Gilobe 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 Fiederick street. Entering the office and inquiring of Mr. F. B. Polson the cause of the rush, he was informed that the Gilohe itself was partly responsible for it, the amouncements 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 1: 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 cconomy, the former quality being indispensable in machinery used in generating electricity. The Gilobe 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 tilled 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 Colden 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 comparatively little-known type. Notwithstanding the nagnitude 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 construc tion, but found that it would not The best evidence of approval was imitation, and he was pleased to be able to tell
them that since the first publication of the designs for th Forth Bridge practically every big bridge throughout the wo the had been built on that principle. The weight of one of toll 1,700 feet spans was about 16,000 tons, and the heaviest r ing load would not be more than a couple of coal trains, weigh ing together 800 tons, or only five per cent. of the dead weifghe the The bridge would, therefore, be as stiff as a rock under pressure of a train. The estimated lateral pressure of the win was calculated to be two and a half times as much as the load, but the whole structure was so thoroughly together by lattice girdors that a hurricane or cyclone migh blow in any direction up or down the Forth without affectip the stability of the bridge. To carry out the work there an army of 3,500 workmen, officered by a proportionate ber of engineers, his partner, Sir John Fowler, being the chied Altogether nearly $£ 400,000 \mathrm{had}$ been expended on plant ahile temporary works, and about $£ 360,000$ for steel plates, will $£ 850,000$ had to be distributed in daily wages to workmal On the engineering staff at the works were representative England, Scotland, Ireland, Germany, Denuark, Sweden Japan, all good and true men working zealously together one sole aim-the good of the job. The same spirit animate officers and men, and whilst they gave full credit to the chie in they must not forget that building the Forth Bridge many respects a soldiers' battle. To cling to icy cold hundreds of fect in the air, with a bitter wind howling one, required courage similar to that which led men to the foe in battle, or to launch a life-boat to the rescue of some shipwrecked crew. All honor, therefore, to the workmen "Peece the Forth Bridge, who day by day were proving that "Pe" hath her victories not less renowned than war."

The long iron bridge at Bismarck, Dak., contracts and expand eleven inches by the heat ond cold.

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

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

A gross of steel pens, formerly costing 835, may now be prof duced for eight cents. The cost of making gold chains has the reduced to an eighth of what it was. These illustrations sho diminished cost of production in metal work.

A prominent manufacturer of iron pipe has purchased tons of Middlesbro (English) pig iron. This transaction and a vious heavy purchase by a Western consumer exemplifes accuracy of the suggestion that any further material rise in the $P$. of American iron would be apt to cause consumers to look to for supplies.

The Department of State has been informed by the cons Odessa that it is very possible that steps will be soon taken to struct a petroleum pipe line from Baku to Batoum. The and the pipe talked of is about seven inches inside diameter, the of the line about 550 miles, and its greatest elevation about feet. The consul desires that the matter le brought to the a of American pipe and pump manufacturers, that they may for supplying the necessary material.

The Hamilton Spectator said a day or two ago:-"A larg for the second cylinder for the new city pumps, $4 \frac{1}{2}$ tons in is now out of the mold. It appears to be perfect in every is a very complicated one, and was made without a pattern in It is intended to commence boring and turning on Thursday week. Mr. Killey says they have not found any difficulty this heavy work, having ample appliances to handle it, class mechanics-second to none-to carry out the work. ings of the second set of pumps are also in hand.

## - Permanent $\div$ Exhibition of $\boldsymbol{T M} \mathbf{T}$ anufactures. Toronto. <br> NICHOLLS \& HOIVANJ.

 fictures.


1. The Exhibition will be free to all and open thomghent the war.

2. Bxhibits will be seen by latse number of bumess men who would not be apt to vistt a private hanch othece untess on special business.
3. The Exhibition will be extensmen cuhorthed and made wey attractive, and ats almost every variety of
 mercantile exchange.
F. Comunerent salesmen will be in chare far the purpoe of explaning the merits of each exhbit to inter. ested visitor.
4. EAhihtors can have printed on their oltier stationcer " When in Toronte call and see samphe of aur goods
 prosonally inspertines goods. who would nut ine apt to visit outsile towns for that purpose.
5. Exhibitors cun appoint us selling asonts, or can hate their own whesentative in charge. In the formon cose, wey endeavor will be made to estahlis! protitable trade.
$\therefore$ Miachinery can be shown in motion, as shating and powe will be provided.
6. Othee accommodation will be provided for the comenience of exhbuters and their agents.

Jhe following list contains the natmes of those having already secured spare in the buikding.

Aumstron B. A. \& Co.. Guelph, Ont, Carjets.
ther ralls. Joht St Suns, Dundas, Ont., Inon II orking Machiants
 Mschinery.

lircithiaupt CL Co. Brerin, int, leather.




 Furni ure
Hommion Hat Co., Hamiltun, Ont , Feit Hats.
lhanald l'rombece Co, Norxich, Ont, Fiaghented Fruits


G.inhe, Janes, (inefph, Otit., Flour






 Machiners



Hawland, HI.S.. Kitcinhuray. (bot F Homer





 llathmer.


Nurthey \& Co. Turnit © ©
 Pajker.


Paris Manufacturias: Paris, Ont Klut Cindats.




 sace l.catiur.
Simpen, (dec.. Merinn, Ont., Feit is atsand shoces
 Garlide larnhare.



Walher. Janne. Hanalton, (M, Hhusehnelat saram.


Further information will he promply inminorl.

## KNOWLES STEAM PUMP WORKS,

-BUIIDERS OFSTEAM PUMPING MAGHINERY IN EVERY VARIETY


Simple and Duplex Encline for
TOWN and CITY SUPPLY.

93 Liberty St., NEW YORR.
.SEND FOR illustratld catalocuf..

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

ESTABLISHED 1855.

Manufacturors of all kinds of Fire and Braglar Proof Safos.

PRISON LOCKジ 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 arzestrom 3 to in H. $P^{2}$. Siketally adytid to pliwes where 3 to 10 II . ${ }^{2}$. is reyure. d . Simple, safe and durable.

## JOHN DOTY\% + Hillie Co.

No. 2 Bathurst Street, TORONTO, ONT.

THE Otto Silent Gas Engine.


In sizex from 2 to $\boldsymbol{7}$ H.P. Most comarmint power in the market. SESD FOL CLRCUIOAR.

## Textiles．

## SHAN（GHAL NATIVE OOTOON CLOTHS．

As interestines acount of the rative coten fabricomaniace tured at Shanchan，and the surromomer district．has hern wowed from Mr＇harle Alabaster．Two speetes of cotton f：are are poduced in the inamshai divinot，the white and the
 which may be distinguished from theie texture as sive，coarne： and medium．From the buff tiber is made the material so weli known as Pakeen，whith matans the matmal color of the ma cottoll．
There dows not appear to beremy manutactory rither in the rIt of shanghan or in the bucigi settlements，thonah the at．

 carred on，aid the produce of the looms is brought into town， Bon sit．It is only on thor Pootmes site of the rin．．．that there an fatomien constatly at work．These pochuee the coman －hothe．The loums on the shamalai side are internuttent m
 －hathate in ureatest demand．
of the fine eloths，fise ：andere are produend from the mbleachel winte（which does not itself appeat to be in the mukert，wi．，bleached white，purple（calendered），blue（cal endered．coase blue（the ordinary wear of the working elass（o）， and harek Gaking the English sumare foot as a muit，thare

The coarse Pootung doth is dyed in preen and whes．and tarios in price foum I İce for the undy white to ？lile．fou the green．
The medium ．loths are dyed mone color only，red，and latgele nsed on festion weasions as being the most allspicions of inlors．The price ranges from 1.75 c ．to $\because .4 \mathrm{tc}$ ．
The N：mkeron we not subjected to any dyeing procen．and nre sold at 1.4 ． the undyed loomen cloth，the cheapest in the market．
In the vabinined table is shown how the principal toreisn ！ cottons on the market compare in price with these nathr chothe It will be noticed that the wholesale rates a very much lower， and the wetai pricessousiderably chenper than what is chemanded ：H Shathai＂heth shops for the native produce．But then，at imequphe on wod merchant remarked，tha is easily explaned． The nerea doth lasts foretar：the foreign import dome mot．


 －uhnitting a sample to a foreigh＂xpert，he declaved that surh －lor，if imperted，would luet tind a market in Shanghai The： is the more remarkable，that this native dyed foretgn shirting Wharely used for womon＇s and childretiv clothes，（apecially
 the mankets cottons dyed to the shade of blue atfereel by the
 7 ripo Rerard．．．


Turs sollowing exhbit of the compatatice allyents of wool tul woollens for the yourinsen and lasti is on matkend interent The imports of hoth the raw materials and falmice for lant year were，it will be observed，largely in exeess of the impente for ＂w proding goar．Thus，white the Ameriem manteraterer
 mun．Every pound of the wool and neres yard of the fathes

these ligures surely it is not that there is need for further sur－ render of our maket to foreiguers who grow，spin，weave and ＇knit wool．

（Clothing work
Combing wook．
Carpet and other sumilar wools．
Total．．
18sti．
35000,013
2，202，151
9，640，9：35
． $817.40: 3,099$
$\div 12.919,251$

Cluthing，wady－made ．ond other wear
ing apparole exerpt hawls ond knit


 Kinit gook
$2,126, \times 1 \times$
Racs．homedy．mines．wate，：aid

## flock：

Nhawls．
Yams．

1．11，2in． $890,9+4$
．111 other
Total．
$=13.3,64$
i，16：3， 70.1
1，120．178
6．15！ $6: 1$

Secretares Mamning the worth repeal the dute ou ne wom month＂gain urged Congress to （1）and than＂emore the tax from the chothing of shats billions of peopic．＇If Mr．Mansing wants to make the exriruhtmal interests．conntituting about one haif of the sists millions，bealy mathmens againes sho ream of his party to power，he is winking on gut the mon： lines．It might be thought that eren at polatimn inferered with fire tade bations would undesstand the deasise wore of the people last ball against wheh schemes as this．Whaen the American prople want the daty off of wool they will aront a （ongress that wil take it off．voly three monthe age the： elected a Congress that will eertainly keep it on．And，if the siaty suffering milhons wish to pat that kind of a tas on their Celothong．why should Al．Manming wory himself abont dhem？ It howk as if he．had be the power．wouk remove the duty in defiamer oi expressed public opinion，an！in such an esent he： mont dwener that his method of hies，mg was not ualike the
 weh reberne to Mr Ramball：peoposition to adhen certain diasies of wowl tree of daty There is no general domand for
 wide the doot：to frand The maly thing that anstht to be dome II the matere of tarill lexishatm for textile a to repair the very hurtul hlunder in the wown chanse ley futmer worsterk


AN AMERHC．AN VOBM OH THE（OTTUN GOODS JR．A日に。

## 

AFren examining the detallol statement of exports of ento． piece gords from Great hritain the past wo years，prepared by fhe britinl hoard oi Prade，and maknys due allowams．son Englands superion advantages in many respects，it is a matter as regret that our own erruntre the chici sourer of suppy of the rave materiat，shoubt no hase an export mate in the goods which would at lean wach an ageregate－．gmal to the anmour
 ！kets genumphically an bear to us as Contral mondonth America， ithe West ludes and Moxion．These，maturaly are our mar－ Ikets．In uppars that England＇s total experts during lest wachell her enomous t．tal oi $4,500,030,2010$ yards，valued at



347，4．3，sulo yards in uneolorod and 103，379，3011 vards in colored seods the hatane being in manmes．This emermous sain has heren mainly whiments to a biow of the many comn－ toins wher Enylish cotton－we marketed ：and it is a siguiti－ mut taet that，aside thom the Bast Indies，the older makets have unt beph relativers an liberal customens as thone that have bem more reenth devilened
＇This new phase ot Bu＇s．end－cotton enport manement Mould set our own frempe to har：khes． $1 \cdot \mathrm{n}$ it hows what com be done
 old ones．The henres d－e－how thit the rade which has been low，in certain quarter－ma heren ment thatu compensated by the anrease．The so of collon emonk sent to countres which


 tral dumpic：
 then cotton expere hasiness，haremods beine sold in over tity
 at large increase in unoloned rot toms．Yev there is some hope of Ameriona manatiourers tonehing this important trade． Suthorities antiopate a gool tode with Inda，China，Japan． and the fat East．Weamwhore strons clfort should be made－ to sell our＂otton frood to out corcigu mighbers．

## rMEMAI＇\％Hoshbry Wares．

## 




 the busy stamo in ．arr，more time may be taken over the
 thers will be moderately engased for some little time with woder on hand．There is little doing in ribbed hosiereg，and fine of at an abmomally low hevel．All－silk gloves ate in tain repurat for wertan qualitios ：a repetition of last season＇s hew druand for this article is not to be expected next， however，and many establishments will be restricting them－ selaes to the more profitable manufacture of woollen artules． Enguities for combed yarn goods atre wot coming in so treely as had hern expected：athough the maket is very firm at proment，haners are thinking that over－production will hater on bring pitece down．Hence the reticener Some gool commis． suns for woblen ghose have bern recmued fom Now York．

## A HINTTO WY゙ミR

Diver，ins a rale are awate that when they attempt to dup－ licate a color made whete they had to use hated watel，that the sime quantity of drugs，wheri wft water in used，will not pro－

 how mach more stuth he was obliewd to use．Oftentimes he will think that the drues abe of an intimor puality，when in reality they ane dopat t．what he hav bren in the habit of using．The face is this，hated watrer dow not menuive as much drugs as water which is soit；and at where mift watere is used，they adh a smatl ：moment of lime rie sromed dalk to theirdye bath，it will make the water an hasd as that whin they use where they dye sam－ phes，and then they will have fres trenble in matehing those sumples．Hiders rilne and Pedrri．

Turs adhance sheets of the Amencem Bureat of Statisties show a semariable mervase m the mportation of clothing wools for the clecen monthe a dong Ninemier 30th，compared wilh a correspond－

 increase this．

## british textile statistles．



|  | total． Exponts． | ro Viniten statris． | To gemmans axd moldeds |
| :---: | :---: | :---: | :---: |
| 1s：2 | £ $3 \times 3,000,000$ | x́f $6,300,000$ | E15，000，000 |
| 1574 | －99，100，000 | 4，2100，000 | $8,9000,000$ |
| $1 \times 7 \mathrm{~T}$ | 21，（i0），000 | 1，600，000 | 5，600，00\％ |
| 1830 | 21，500，000 | 2，500，000 | 4，300，011 |
| 18s！ | 22，000，000 | 2，200，000 | 3，900，00\％ |
| 188： | 23，100，010 | $2,800,000$ | $3,200,510$ |
| 1883 | 22，500，000 | 3，000，000 | 3，600，10ッ1 |
| 18 st | －i， 2000000 | 3，100，000 | 4，200， 1101 |
| 18S： | $24.500,000$ | 2，900，000 | $4,200,001$ |
| 18 nc | －5，500，000 | 3．900，000 | 4，300， 111 |


The ollicial returns of the Board of Trade from wheth the following table is compiled，show the exports of the prinemat textile goods from the United Kingdom to the United States，
 for the twelve months ending December 31 st，in each year．In the latter case the returns are printed in italics．In thane mstances where the guantity is not given，owing to the marne of the expmots，the salue is substituted．

|  | 1884. | \％ | $8 i$ |
| :---: | :---: | :---: | :---: |
| Shequamilambs＇f | 301，900 lbs． |  | \％r |
| wool．．．．．．．．． 1 |  |  | 12， 4 ， 10.5111 |
| Corton piecel | 3． 614.400 yds ． | 3． 3600,300$) \mathrm{yls}$ | tisiat for yds． |
| grouls | ： $5.3,2 \times 2!3,3111$ | 46，154．911＇ |  |
|  | 1，0is， 500 lbs ． | 1，905，300 llis． | 1，126． 100 lds ． |
|  |  | 14， $70.1,510$ | $11.711 ;$ |
| Jute piece－goods | 10，fi：2， 200 yds． $1 \text { ? } 11 \text { N: } 5,1110$ | $\begin{aligned} & 8,181,7(0) \text { ydls. } \\ & 11,229,4(m) \end{aligned}$ | $14,3: 33, \because(K)$ vals |
|  | $32, \bar{n}(0) \mathrm{lbs}$ ． | 71，900 lbs． | $101.6(6) \mathrm{lbs}$ |
|  | ims，som | 0：3， 210 | S |
| Linen piece．g＇ds | $4,8(0),(N) 0 \mathrm{yds} .$ |  | 6, bito,91m yods. |
|  | 50，301 ${ }^{\text {c }}$ | 08，34i） |  |
| ffs |  | 502，08\％${ }^{\text {a }}$ | A! A. |
| Other articles of $f$ | $\pm 1.7$ \％ | £2，211； |  |
| silk only | 土．／心， | E3S，\％i， | Lid，${ }^{\text {a }}$ |
| Are＇les silk mix＇d／ | £17，943 | 823，17： |  |
| wh otherma＇ls I | E：SIS．S．36； | $\pm 371,0.1 \%$ |  |
| oollen fath | 290，500 | $397,700{ }^{\text {＂}}$ | 738,801 |
| fan |  | A， 6102,4617 |  |
| Warsted fabrics | $2.005,900$ yrls． |  | 3，1339， 20011 ads |
| （eatar． | －7，m9，f（17）＂ | ：－3，35\％，Sm＇ |  |
|  | £ ${ }^{\circ} 7.445$ | E6，76） | ¢T．73： |
| ／ | $\pm 106, \sim \therefore$. | \＆111．．sit； |  |
| Haberdashery ${ }^{\text {S }}$ | £10，916 | \＆13，71．4 | $\pm 13,304$ |
| millinery．．．．i |  | ¢ $1 \sim I, n^{\prime}$ ）$]$ | \＆1：11\％，楽 |

Mhe．E．Vobitwisu；of Port Elgin，is in tewn，looking far smme hatuds for his buthou faciory which has heen started in the ahose phace．Any parthes whu want a joh，especially tumers and wallers． cin leave theit names at onee at this oftice－－Berlin News．

Mr．Jossen Dinos mrumine the Rutheen Woollen Mills，in （insfield，Ontamo，Canalit，on flamuels，blankets．tweeds，and sen－ crid domestics．He sells ducet，principally to the people of his bemmy He operates Daves of Furber jacks and the Ctmatom


The most kindly relations crist between the 200 empherev ai the Hamilton Cation（ompuny and Mr．J．M．Yomng．the mamed． and a member of the tivm．amil on Friday night，wath hay aid．tive employees and thei fremeds celebrated the extension of the we： pany s huldings atad machuery by holding a social remman in 1 ． new premises．

A forrte ditienty has been expotienced in getcing che Matystir Dy．Works in full working order，hut that has been werentamathe works are now roming in full blast．The first colnred wo．．．is will．
 the morket in a few days．Orders have bers seoended for latar


## $\mathfrak{M i l l i n g}$.

ONTARIO'S MILLING INTERESTS.

The Hour milling interests of Ontario are not generally understood, and consequently their imprrtance is much under rated. In Ontario there are about 2,000 grist and flour mills, nearly 1,000 of which have within the past few years undergone vast improvements, necessitating an inmense outlay of of grital, consequent upon the change from the old stone system of grinding to the new roller process. From enquiries we have ingtituted, 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 suitmill for high class patents, the retitting of an ordinary sized mill has cost from $\$ 10,000$ to $\$ 12,000$. A very moderate estiingte places the total amount of capital expended in transforming the mills in Ontario from the old system to the new at rolleren $\$ 6,000,000$ and $\$ 7,000,000$. The adoption of the Toller system was undoubtedly a much needed improvement, Which has completely revolutionizerl the milling industry of interio, and will tend vastly to the furtherance of its best interests.-Trade Bulletin.

## CURRENT NOTES.

## (American Miller, Chicago.)

A Corrrspondent asks us a question which has been sent us many times before, and shows that a mistaken notion is wideWhead in regard to patented machines. The question is patenter a party can make a machine for his own use, that is
pante. He cannot, unless he is willing to trust the chances potented. He cannot, unless he is willing to trust the chances vend lawsuit. The law makes no distinction between the liablor and the user of patented articles, holding both equally liable for such damages as may be awarded.
$\mathrm{THE}_{\mathrm{He}}$ scheme to provide water power for light manufacturing in cities, through the instrumentality of the waterworks, is not feasibles, so far as such cities as Chicago, Milwaukee and many
other cities and must cities are concerned. The simple reason is that the water and thirst he pumped up before the head of water is gainesl, the this represents perhaps two or more times the power which $v_{0}$ water would yield when utilized afterward by a motor. Ob great cities water power distributed through the mains of our BuITish farmers complain that their railroads assist to the
ful] extent of their ability in making protitable wheat-raising
impossible in England. It is said that it costs more to trans-
port 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
market in Great Britain; but if we had such charges here as
they have in Great Britain, very little freight would go from
West to East. The various parts and parcels of this world are
getting pretty close to each other, too close for comfort, it ap-
pears, 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 subject of toll. In this state the law permits the miller to
toke an eighth for grinding and bolting, and a seventh for the
single service of grinding. By what process of reasoning did
the originator of the toll law arrive at such a decision as to
What was due the miller! Manifestly hecause he thonght anl
eighth part was greater than a seventh part. We can believe
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. "): "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 iy special machinery, now carried on at Avonmouth Dock by Mr. R M. Brinkworth, the well-known com 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 tive 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. vearly, but much more with the greatest ease. As a means of emriching 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 hundred 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.

Accormint to the Statist, the average price of wheat in Great Britain in 1886; was lower than in any year since 1761, being 31s. 1d. per quarter. The highest annual average reached during the period named was 126s. 6id. 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.

Wirmin 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 $52 \frac{1}{4}$ 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 sixlushel 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 conly about four bushels ti, the acre. This is an enormous difference, and may well be suppused to furnish a powerful argument in favor of the artificial watering which has already worked such woiders 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 Lene 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 27 th, says: "Farmers as a rule, are worse off than they were a year ago, and there dues 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 from ahsolute ruin, and the agricultural interest from decay. We trust that more energetic efforts will be made by farmers to form the matter on the attention of the legislators and make it plain to, consumers that they can mot he fed at a loss."

## Qumber.

## THE FREE ENTRY OF FOREIGN-SAWED LUMBER.

## APPLICATION TO THE UNITED STATES SECRETARY OF THE TREA-

 STRY FOR THE PREVENTION OF THE ALLEGED EXTEN SIVE EVASIONS OF THE LUMBER TARIFF.
## (Banyor 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 Kemnebec 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 preventiou of the violations of law complained of. Representative Boutelle recently received a number of these memor ials 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 erils represented, but stated some of the difficulties encountered, and the importance of having the co-operation of Anerican lumber manufacturers with the revenue authoritips in the matter of discovering and punishing fraudulent importation. The interview resulted in the following correspondence :-

## Treasury Department, February 15th, 1887.

Hon. (.. 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 addiess. Respectiully yours,

> ( S. FAirchilb,
> Acting Secretary.

> Treasury Department,
> Office of the Secretary, Washington, D.C., Feb. 15 th, 1887.

Messrs. Wm. T. Pearson \& Co., ddams \& 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 he 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 Minne, manufactured in New Brunswick by American citizens.

The department is unable to take any definite action upor the general statement made in said petition. If you will, however, forward particulars concerning any transactions of whicll you have knowledry+, specifying the names of importers, and importing vessels, diates of importations, and other data, the department will cause careful investigation to be made with ${ }^{\text {a }}$ view to detect such frauds, and to prevent their recurrence in the future.

Respectfully yours,
C. S. Fairchild,

Acting Secretary.
The Souther, Lumberman predicts an unusually brisk trade $\mathrm{f}^{\mathrm{D}}$ poplar and yellow pine the coming season, claiming that the scar city of dry stuff in the Northwest will leave the Southern lumber dealers practically without opposition.

Mk. Georee A. Loct, of the Obcoda Salt and Lumber Conwhere he is hant week from the (ieorgian Bay district, in Algonian where he is banking several million feet of long timber and short
logs for the American marke logs for the American market. When the south extension of the Algoma 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 ria 'Toronto.-Lnmberman's Gazette, Ba!! Cit!, Michigun.

The latest novelty is in the shape of a rope moulding machine. It was invented and patented ky 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 putting in the machine, but a square stick, any size required, can be put in and come out completer, thus producing the fancy orns mentation faster and more perfect than by the ordinary method. There is one in working order at Messrs. Brennen's factory. 1 has been examined ly skilled workmen and pronounced the bebl machine for the purpose ever invented.-Hamilton Spectator.

A German astronomer has found reasons for believing that the modiacal light and the aurora borealis result from the reflection of sunlight ly 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. food.

## $\mathfrak{M}$ Mining.

## OTTAWA VALLEY PHOSPHATES

There are at present eight phosphate mines carrying on Thetive operations in the neighborhood of the Lievre river. ey are situated at a distance of from nine to twenty-three the Emorth of the village of Buckingham, and are known as Emerald mines (American company), the Little Rapids Phe (Canadian owner), Battle Lake mine (Anglo Canadian Phosphate Company), McLaren's mine (Canadian owner), the orth Star mine (American company), High Rock mine (Engcompany), Union mine (American company), High Falls in all Anglo-Canadian Phos. Co.). Between 400 and 500 men
in all are employed at these mines. Machinery of some kind the used at most of them, and air compressors are employed at Bigh Rock, Little Rapids, and North Star mines.
Besides these mines several other phosphate localitics on the saceess have been worked at various times, and with varied
The deepest mine on the river, the North Star, has already racond the distance of almost 450 feet from the surface. The 250 feet deepest is Battle Lake mine, which has reached almost feet in an inclined shaft.
The Anglo-Canadian Phosphate Company, the owners of the Battle Lake-Canadian Phosphate Company, the owners of the cale a mine in North Burgess, five miles from Perth, and Phown as the Otty Lake mine. It is one of the very lest Workinte mines in Canada. An air compressor, capable of rerving seven steam drills, has been put up and proves very ty. Thiceable in working the rich phosphate veins on the propergiginst output of phosphate in 1886 was 18,968 tons, as fallingt 23,849 tons in 1885 , and 20,747 tons in 1884 . This for $\mathrm{C}_{\mathrm{g}}$ off in product was largely due to the low price offered The canada phosphate, and is only temporary.
4ume phosphate is shipped down the Lievre in scows in the
Whencer time and loaded at Buckingham on cars for Montreal,
and Ence it is shipped to the various markets in Great Britain Earope.
The quality of the phosphate is verv good, some shipments
averaging over 85 per cent. phosphate of lime. One shipment
from the
the North Star mine averaged $86.4 *$ per cent.

## AMERICAN IRON ORES.

Harkid inchease in the production of the metal--great drain on the ore deposits.
Wirectingron, Feb. 20th, 1887.--Major John W. Powell, Puctor of the Geological Survey, has furnished the following The publication :
${ }^{69} 9$ The great increase in the production of pig iron from 4,529,${ }_{8} 886$ hart tons in 1885 to $5,600,000$ short tons during the year bade this led to much inquiry as to the source of the ores which ${ }^{e v e} e_{1}$ this increase possible, for it is a well known fact that
suff urdinary production is a drain upon the ore deposits oftien ordinary production is a drain upon the ore deposits period perhaps in thirty years, more probably in much oneral. The Government has given sufficient attention to the an the geology of the country, however, to afford a good grasp define distribution of the iron ores, and the geologists have also xplorerg the character of the ores so well as to direct the lhe stars accurately to the protitable fields.
vare statement was made last year by me that within thirty
exceed the necessary exploration for new iron ore mines would
boing that of Great Britain, where every available deposit is
Lraced to the furthest extent. The years 1885 and 1886 thown the the furthest extent. The years 1885 and 1886
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 Mimesota.

The confidence with whi $h$ 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 Pittsbur: (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 day, and the time is not far distant when Arkansas will easily and cheaply supply the wants of the trans-mississippi section.-Ind/istrial Gazette.

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 ohjects are brought near by telescopic aid and photographed.

A new use has been found for the goose. In enterprising firm in St. Thomas, Ont., known as the St. Thomas Fcatherbone Company, take goose quills, strip them of the feathers, split them inta narrow strips, spin these and hind them and weave them so as tu 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.

Orecon 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 exprrt. California wheat growing has been largely reduced by the greater profit made from putting the land into vineyards. In Gregon the substitute for wheat will probably be stock-growing. Winters are sol 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 transportation companies. In enforcing their Shylock rule of taking all that the product will bear, they have lately done more than seizing their legal pound of Hesh, 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-ern-grown products.-Marufacturers' Gazette.

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