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CANADIAN MANUFACTURER
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Vol. 32.

TORONTO, JANUARY 3, 1896.

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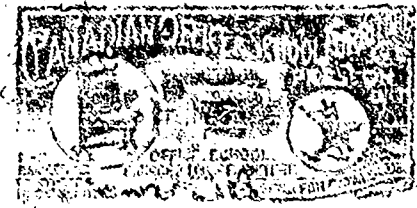
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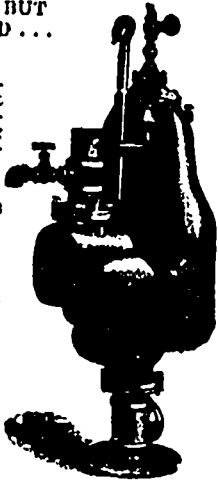
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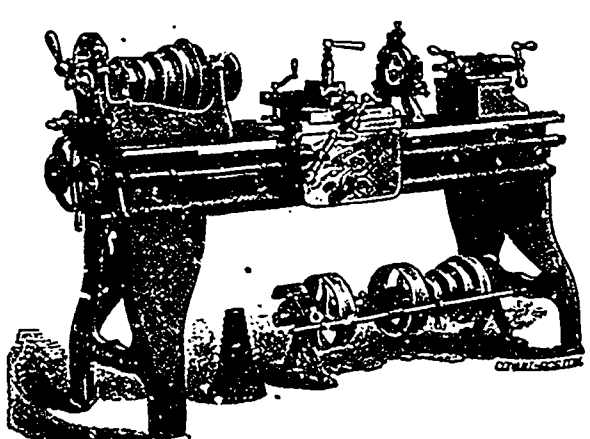
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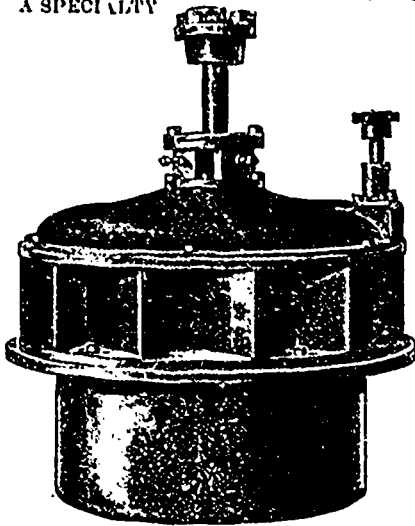
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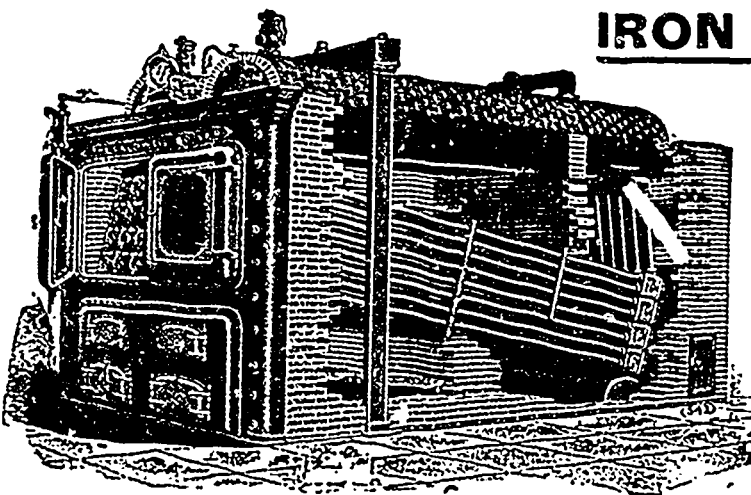
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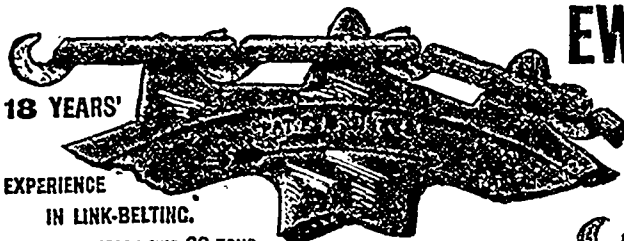
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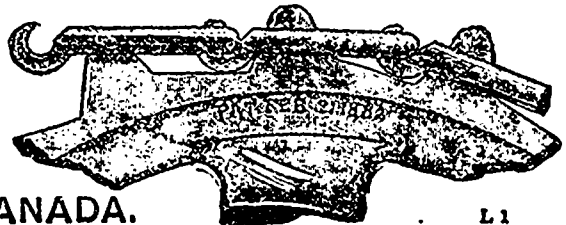
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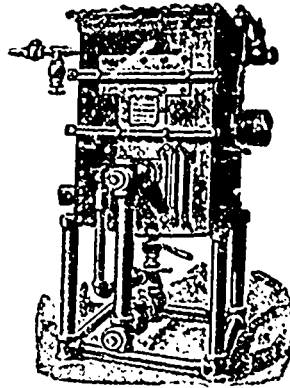
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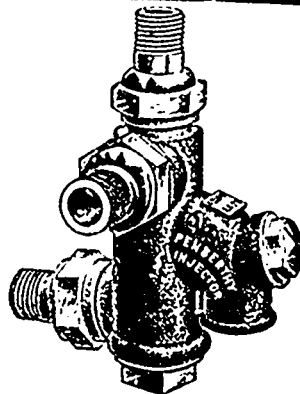
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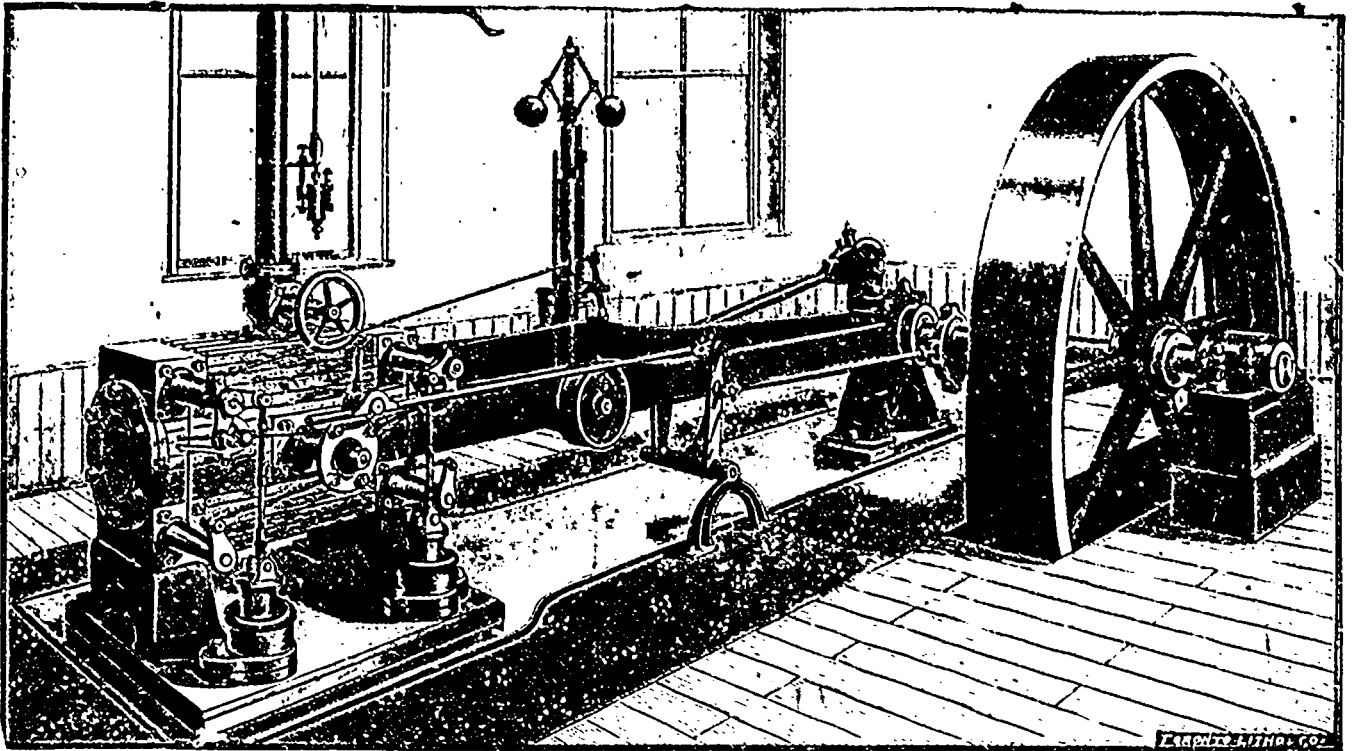
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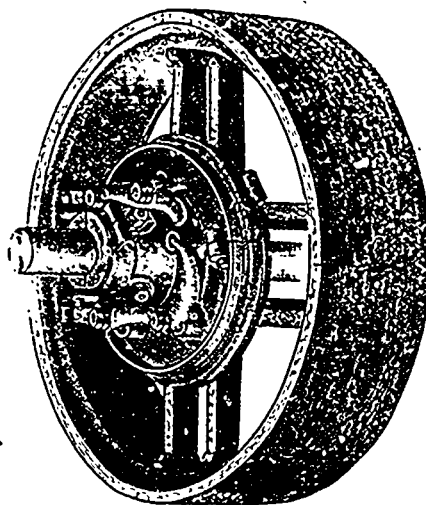
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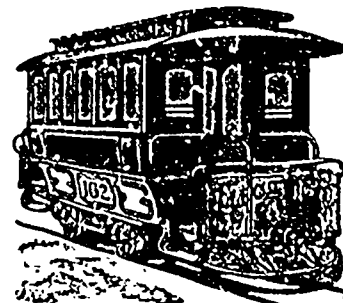
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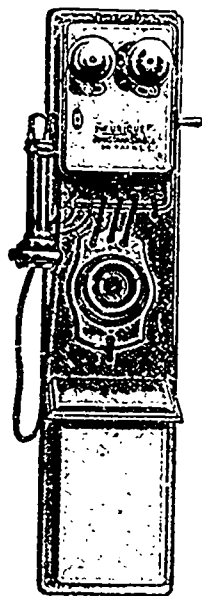
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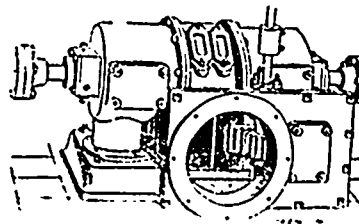
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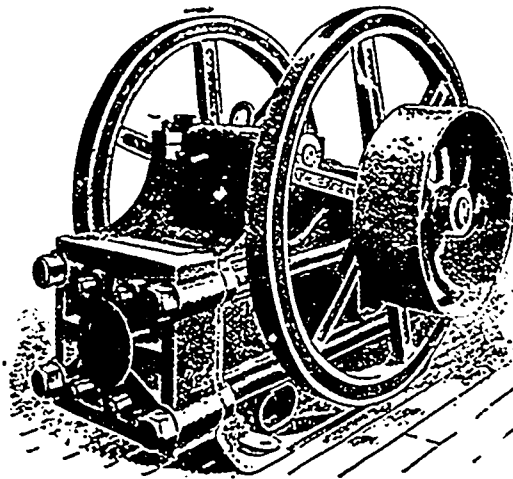
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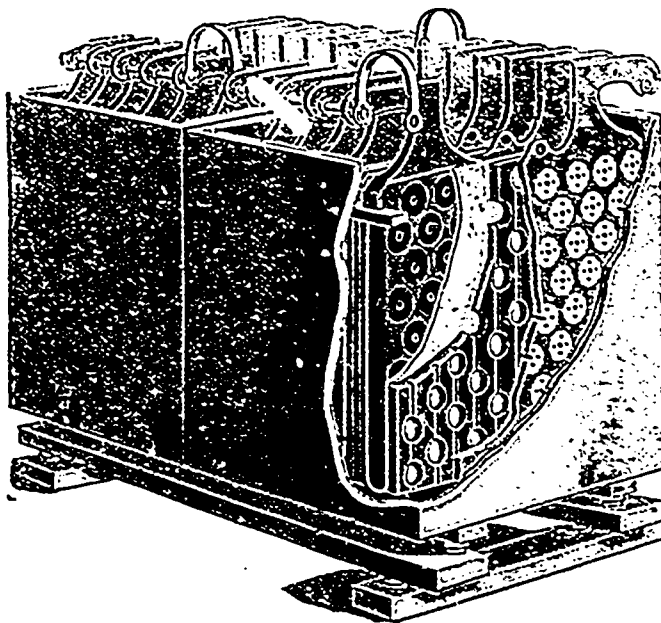
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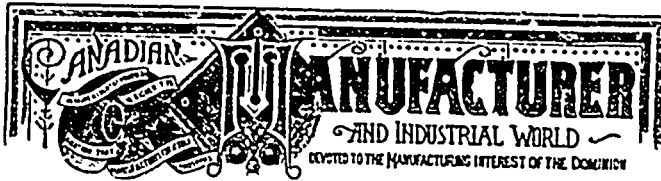
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THE STRENGTH OF THE BALLOT.

The manufacturer who has not noticed the drift of events emphasized in the recent elections in different parts of Canada for the House of Commons must be blind indeed. If he does not view them with feelings of anxiety he must be incapable of comprehending that their coming casts their evil shadows adhwart his path. It is lamentable that a Government that attained to power solely upon a platform of which the National Policy was the chief and most important plank, a platform from which they declared most unequivocally that tariff protection to Canadian manufacturing industries must and should be maintained at any and every hazard, should lose sight of

the interests of those who placed them in power and allow themselves to be so far diverted from the observance of their promises as to open constituencies that they might have known would probably return men who were avowed and determined enemies of the National Policy. As long as Mr. White represented Cardwell the Government knew that his voice and vote were available in the House of Commons in sustaining the National Policy, and manufacturers and friends of that policy cannot view with any amount of pleasure the circumstances that lead to his resignation of his seat and the filling of it by one whose voice and vote will be used to defeat that policy. As long as Mr. Curran continued in Parliament his voice and vote, too, could be depended upon to sustain the National Policy, but to elevate him to the bench his seat must be vacated, to be filled, also, by an avowed enemy of that policy. Why was it that Antigonish, so long and honorably represented by Sir John Thompson, should at his death fall into the possession of an enemy of the National Policy? Why was it that Mr. Geoffrion, a staunch opponent of the National Policy, should obtain Vercheres, that had previously been held by a friend of protection? How about Jacques Cartier? Why was it that Mr. McShane should defeat Sir William Hingston in Montreal Centre? Why was it that Mr. McGillivray, a good Conservative, should have gained his election in North Ontario, a remarkably strong Conservative constituency, almost by the skin of his teeth?

There must be some potent cause for this revulsion of the popular feeling. It cannot be that the people have lost faith in the National Policy—there is no reason why they should have done so. Clarke Wallace is as good and staunch a National Policy man as ever, and Sir William Hingston is as good a National Policy man as Mr. Wallace ever was. Is it possible that the manufacturing industries of Canada are to be sacrificed to propitiate kickers who have no substantial grievances, or to enable the Government to hold to them those who would make the best interests of the country subservient to the demands of cranks who place religious prejudices above anything else?

Sir John Macdonald thoroughly understood that his party could never attain to power, and that he could never be premier of Canada without the active assistance of the manufacturers, but that fact, which is quite as potent now as it was then, seems now to have been overlooked. The manufacturers are not necessarily Conservatives, but they are for the National Policy first, last and all the time, and any political party that will honestly and steadfastly advocate and maintain their interests will receive their support.

EXERCISE OF PATIENCE.

Some of the most important industries of Canada are now severely handicapped by a tariff which taxes their raw material beyond the protection afforded to their finished product. The protectionist remedy for this state of things would be to increase the duty on the finished product; the Liberal remedy would be to remove or diminish the duty on raw material. Any industry being in need of relief, a Liberal Government would exert itself to give that relief by removing the tax upon its coal or its iron, or its supplies of various kinds. The steady maintenance of that policy, without violently disturbing the conditions of industry, would produce most beneficent and far-reaching results. There would be a steady movement in the direction of freedom, simplicity and

economy; just as, under the policy of aiding industry by taxation, there is a steady movement in the direction of restriction, complexity and extravagance. Above all there would be a steady movement toward placing all the industries of the country upon that basis of self reliance which many of them have already attained. There would be less running to Ottawa, less hope and fear regarding the action of Governments and Parliaments, more stability for industry and commerce. Keeping these objects steadily in view, the Liberal party can well afford to exercise that patience which is as essential to reform as enthusiasm.—The Globe.

We have all heard of how the dog's tail was cut off an inch at a time to minimize its suffering. The Globe's policy as above announced is to give relief to any industry in need thereof by removing the duty upon its supplies of various kinds; and it tells us that the steady maintenance of that policy, without disturbing the conditions of industry, would produce most beneficent and far-reaching results. Thus it being, say the agricultural implement industry in need of relief, the Liberal policy, according to The Globe, would be to remove the duty upon its supplies of various kinds. These supplies are iron, steel, screws, bolts, nails, paints, oils, varnishes, hard woods, lumber, etc; and the tools and implements necessary in the factory, such as iron and wood-working machinery, grindstones, emery wheels, belting, steam engines and boilers, etc. From all these things, then, the Liberal policy would be to remove the duties to the end that agricultural implements might be manufactured in Canada.

At about the same time that a demand was made for free raw materials for the manufacture of agricultural implements the manufacturers of, say malleable iron, would show that they were entitled to some relief, and so the duty on pig iron, a raw material in that industry, would be removed, and the bounty also, to the end that malleable castings might be made in Canada. In fact there can be no article manufactured that is not produced from some "raw" material; for without doubt the raw material of any industry is and must of necessity be the finished product of some other industry.

We can readily see, then, how the steady maintenance of this Liberal policy, as announced in The Globe, would affect all manufacturing industries. We are told that it would not violently disturb the conditions of industry; but it certainly could not be put in force, and carried to its logical conclusion, without almost instantaneously resulting in absolute free trade. The far-reaching results would quickly become realized, but not with any of the characteristics of beneficence.

We are told, too, that under this Liberal policy there would be a steady movement towards placing all the industries of the country upon that basis of self reliance which many of them have already attained. What is the character of that self reliance? There are but few industries in Canada that cannot sell their products at as low prices as similar products are sold for in other countries. But Canada is a country of magnificent distances, and to enable the manufacturers to produce at low costs it is necessary that they be protected against foreign competition. Give them this protection and the competition among themselves may be depended upon to keep prices down to a proper level. Agricultural implements are as cheap in Canada as in the United States, although the duty is twenty per cent. Bicycles are as cheap here as anywhere else in the world. Blankets are as cheap here as in England, and so on through a very long list. These indus-

tries give employment to thousands of Canadian workmen, and the policy that affords them employment does not increase the cost to the consumer, as The Globe says it does. All these industries are now upon a basis of self reliance, as the Globe says they have attained; and it is no diminution or abatement of that self-reliance in their demanding that they be protected against the unfair competition of other countries.

Keeping the objects of the Liberal party steadily in view, as The Globe suggests, and knowing that that party can well afford to exercise patience in their efforts to attain them; and seeing that if that party were entrusted with power, and their policy carried into execution, free trade, plain, simple and unadulterated would be the quick result, the manufacturers are not likely to listen to the syren songs of The Globe.

THE PIG IRON INDUSTRY.

THE CANADIAN MANUFACTURER has much pleasure in announcing that the blast furnace of the Hamilton Iron and Steel Company, at Hamilton, Ont., to which frequent allusion has heretofore been made, has been completed and was blown in on Monday last, December 30th. The Hamilton Spectator has the following to say regarding the event:

To-day marks the beginning of a new era in the history and prosperity of the ambitious city, unless we are very much mistaken. To-day the fires were lighted in the furnaces of the Hamilton Iron and Steel Company, and that concern is now one of the active manufactories of the city. The history of the works up to date shows that Providence helps those who help themselves. For many years, notwithstanding the encouragement given by the Dominion government to the manufacture of iron in Canada, by a protective duty and a substantial bonus, we waited for that much-talked-of agency, "American Capital," to begin the work of iron making in this part of Canada. This waiting was due principally to the fact that there were few Canadians who understood the art of smelting iron ores; it was an unknown industry here: and we waited patiently for the Americans with their knowledge of iron making, and their boasted capital, to come over and convert our ores into iron and steel. But the Americans were quite satisfied to make iron in the United States and supply the Canadian market from Uncle Sam's iron and steel works.

However, in course of time, some Americans, credited with the possession of unlimited capital, came to Hamilton and organized the Hamilton Iron and Steel Company. Some Hamilton people were in the company, but the American capitalists were looked upon as being the big end of the concern. But the work of the company dragged painfully; there was a hitch here and a hitch there, and it began to look as if the works would never be got to the operating stage. Then it was discovered that lack of capital caused the whole trouble. The Hamilton stockholders put their heads together, got other Hamiltonians interested in the scheme, and got rid of the American "capitalists." Then the work went ahead with a rush, and the result is that to-day the blowing in took place, and the Hamilton Iron and Steel Company is a live concern.

The making of pig-iron, which was begun to-day, is but a portion of the work proposed to be undertaken by the company. A steel plant will be put in as soon as possible, and steel of all kinds will be made.

This will give Hamilton a great advantage as a location for all manufactories in which iron and steel are used, and with the magnificent system of railway connection, which we will have in a few months, this city will afford conditions which no manufacturer can afford to overlook. We expect that great things for Hamilton will result from the striking of a match, down by the bay-side to-day.

The "blowing-in" event was celebrated in good style by the

company, the citizens of Hamilton generally, and many guests from abroad. Considerable work is yet to be done on the extensive outer sheds, and the coke and ore storehouse, but the main works are very near completion. The two 1,000 h.p. engines are beautiful specimens of mechanical workmanship, as are the various hoisting and traversing machinery for handling the coke and ore and feeding the furnace, which is 16 feet in diameter by 75 feet high. Already there are 150 cars of ore in the sheds, and a siding filled with cars of coke, ready for the commencement of work.

The output at first will be light until the furnace becomes thoroughly seasoned and the dampness dried out, but within a week or two the production of pig will be increased to 100 tons a day. Between 125 and 150 men will be employed when everything is in good running order. The Grand Trunk has a switch running into the ore shed, and it will soon be a scene of great activity, as the constant daily requirements of supplies of coke, coal and ore will employ a great deal of rolling stock. A conduit has been laid out into deep water in the bay for obtaining a good supply of water, and wharves will be built on the bay front during the winter to facilitate the shipment of coal by water. The buildings are all substantial brick structures, with stone foundations, and cover several acres of ground. The total cost of the works when finished will be about \$300,000.

We most heartily congratulate Hamilton upon having the first coke furnace in Ontario, a direct result of the National Policy. If the politicians of the country are not allowed to injuriously affect that policy by the interjection of religious prejudices, the Separate School question and other side issues; and if the manufacturers and the people generally refuse to have their attention diverted from the fact that the best interests of Canada are inseparably bound up in and connected with the National Policy, the Hamilton industry will be the forerunner of many such enterprises that will accrue not only to Ontario but to the whole Dominion.

It should not be forgotten that the advent and establishment of the pig-iron industry in Ontario is due not alone to the assistance rendered it by the Dominion Government in the imposition of duty of \$4 per ton upon imported iron, and a bonus of \$2 per ton upon iron of home production, but also to the friendship of the Ontario Government, under the wise leadership of Sir Oliver Mowat, in also offering a bonus of \$1 per ton upon iron made in the province.

AMBASSADOR BAYARD AND HIS FAUX PAS.

The Hon. Thomas F. Bayard, United States Ambassador to Great Britain, delivered an address to the members of the Philosophic Society of Edinburgh, Scotland, on the evening of November 7th. The subject of his address was "Individual Liberty, the Germ of National Progress and Permanence." The most striking passages were those in which he denounced socialism and protection. After alluding to the preparations for war on land and sea which, he asserted, were never so formidable as to-day, to the increasing burdens of militarism, and to the hostile attitude assumed toward each other of capital and labor, Mr. Bayard remarked: "The movement of to-day is toward State Socialism, as an opposing force to autocracy, either of which is despotism." After discussing what he termed the tyranny of labor organizations Mr. Bayard

said: "In my own country I have witnessed the insatiable growth of that form of state socialism styled protection, which I believe has done more to foster class legislation and create inequality of fortune, corrupt public life, banish men of independent mind and character from public councils, blunt public conscience, and place politics upon the low level of a mercenary scramble than any other single cause. It is incorrect to speak of protection as a national policy. That could never be, as it will never be anything but the fostering of special interests at the expense of the rest. It is fatal to hopes of advancement, or even to the retention of what has been gained by civilization."

Mr. Bayard, when at home, lives at Wilmington, Delaware, and the News of that city has the following to say regarding the matter:

"Mr. Bayard's declaration that protection is fatal to hopes of advancement, and fatal to the retention of what had been gained by civilization, is untrue in every respect. Without protection the United States would to-day be nothing more than a third-class nation, instead of holding a place in the front rank of nations. If the Ambassador had been making a stump speech in Sussex county he could not have appeared in a more contemptible attitude. He discredits his own country, he denies existing facts, and he inveighs against those things which are the life and the hope of his own country.

"When he exclaims against 'class legislation' he overlooks the class legislation in Delaware by which thousands of voters were deprived of the right of franchise that he might continue as a beneficiary of the country in public office. When he protests against placing politics upon the 'low level of a mercenary scramble' he forgets his own State and the record of his own party, overlooking the combination which he and the Saulsbury faction made in order to perpetuate those two dynasties which were overturned in 1888. When he declares that the tendency of the times in his own country is 'toward State Socialism as an opposing force to autocracy' he forgets for the time being that he is a magnificent specimen of an American autocrat. As the dictator of his own party, as the dictator who demanded that the negroes should be deprived of the right of franchise granted by the Constitution of the United States, he is known to every man in Delaware.

"Mr. Bayard touched upon a delicate subject in his Edinburgh speech. The people of Great Britain may not know him, but the people of Delaware know his history as a politician. Since 1869, with a brief interim during Harrison's administration, he has held public office. He has lived and thrived at the expense of his country, for which he has never given any return worth dwelling upon. He could not be elected to a single office in the gift of the people. His election to the United States Senate was only the result of a combination and by the disfranchisement of Republican voters, which made it possible for the Democrats to control the General Assembly. Mr. Bayard has not done himself credit by his utterances at Edinburgh. He spoke with the tone of a man who had soured upon his own people; his utterances were those of a disappointed and a discredited man. He has gone entirely too far in his effort to toady to the people who now flatter and feed and entertain him, but who have no use for him when it comes to considering matters of state at issue between Great Britain and the United States."

The New York Tribune contains a report of an interview on the episode with Senator Chandler, of New Hampshire. Senator Chandler said that a man who would express himself in that way, and slander his countrymen and their institutions so atrociously, was unfit to be an Ambassador and should be recalled at once. He said also that Mr. Bayard's course was without precedent, and his calling protection "State Socialism" was a direct attack on the policy of the Republican party, which has been endorsed by the people. Senator Chandler said also that Mr. Bayard's whole course since he became Ambassador to England has been un-American and deserving of condemnation. In fact the Senator does not believe that Mr. Bayard intends to return to this country, but that he hopes to make his home in England after his term of office has expired. "He has nothing to look for on this side of the Atlantic," said Senator Chandler, "of that the recent elections must have convinced him."

The New York Herald pronounces a scathing denouncement as follows.

"Now, without saying a word in favor of protection, is still desirable to ask whether this denunciation of it comes fitly from an American Ambassador in England. He is there as the Ambassador, not of freetraders, not of the Democratic party, not even of a Democratic administration, but of the United States. Protection, mistaken policy though it be, is the policy of a great party which represents half the people of the United States. Is it, then, for the American Ambassador to announce in England that half the American people are wedded to a policy which is corrupt and corrupting? To say it at home is one thing; to say it abroad is another; and for an Ambassador to say it is to use his great office to disparage in the view of England the country he represents."

Evidently Mr. Bayard didn't know it was loaded.

AN ASSININE PATRIOT.

"Whom the gods destroy they first make mad," and certainly Admiral George E. Belknap, U.S.N., is ready for destruction. A Detroit gentleman who is said to be an earnest worker in behalf of American ship-building in lake cities, and who recently published an article in a Cleveland journal urging the abrogation of the treaty which prevents the building of war vessels on the lakes, sent a copy thereof to Admiral Belknap, to which the Admiral replied with a letter which the Cleveland Marine Review says is "full of fire and vigor such as might be expected from an officer who has attained distinction in the navy."

In his letter the Admiral works himself into quite a fury in denouncing Britain and in twisting the lion's tail, and grows frantic in consideration of the fact that "Great Britain has surrounded our ocean coasts with a chain of arsenals and dock yards, as for instance, Halifax, Bermuda, St. Lucia, Jamaica and Esquimaux, and opened a waterway from the St. Lawrence to the great lakes—all connected with London by cable, for instant intelligence and orders in case of war;" and to him it seems a blind fatality for the United States to so tie its hands on the great lakes as to be rendered utterly defenceless in that vital quarter. Continuing he says:

While England dominates the Mediterranean with her finest fleet, although her points of occupation are mere specks of territory in comparison with the possessions of Spain,

France, Italy, Austria, Greece, Turkey and the northern shores of Africa bordering on that sea, what right has she to insist that the United States shall not keep a naval force of whatever strength they choose on the great lakes? Let the people of the great northwest, then, demand protection ashore and afloat, and where England mans or floats one gun, let us meet each one with two. Commerce is the handmaid of civilization, and every nation has the indubitable right to protect its ships wherever they may be. Therefore our great tonnage on the lakes should have the protection that forts and ships of war alone can give.

We earnestly hope that the "fire and vigor" of this brave Admiral, who has, "attained distinction in the navy," will be allowed to subside somewhat, allowing him to take counsel of his common sense and better judgment. When he cools off a little he will discover that if Great Britain insists that the United States shall not keep a naval force on the great lakes it is because the United States agreed not to do so. That is all. The agreement was mutual, and made in the interest of peace and good feeling. If the United States agreed to the arrangement, Britain did the same, and has honestly abided by it. If the United States, or Britain either, desires to terminate the agreement it can be done simply by notifying the other power to that effect; but in our opinion the United States will hesitate long before denouncing the treaty—certainly Britain does not wish to have it abrogated.

The Admiral says: "Let the people of the great northwest demand protection, and where England mans or floats one gun let us (the United States) meet each one with two." Is not this a silly remark for an Admiral of the U.S.N. to write? Under the existing treaty, which Britain most scrupulously observes, there is no gun or war vessel afloat on the great lake—therefore why the hysterical demand to "meet each one with two?" Where is the one British gun that is to be met with two Yankee guns? We quite agree with the Admiral that it is the indubitable right of every nation to protect its ships wherever they may be, but is not American shipping on the great lakes better protected by the treaty than it can possibly be without it? Has American shipping been menaced in any manner? If so we have not heard of it. In case of actual war between Great Britain and the United States, it would be practically impossible for British war ships to ascend from the Atlantic Ocean to the great lakes, and, therefore, even under such distressing circumstances, the shipping on the lakes would be quite as well protected as it now is.

If, however, Admiral Belknap voices the sentiments of the American people, and of the United States Government, and it is really to be that the treaty is to be denounced and abrogated to the end that Admiral Belknap and other valorous sailors may command squadrons and fleets of war ships upon the great lakes, such an event could not but be considered by Great Britain as an act of unfriendliness, equivalent almost to hostility, and which would demand the presence of British war vessels there also. In the spirit of Admiral Belknap, where the United States might man or float one gun on the lakes, Great Britain would most probably float two or more. Indeed, it is not to be supposed that Britain would wait for the floating of American guns, for the laying of the keel of a war vessel in any American lake port would be the signal for the entrance of more than one British gunboat quite ready for any service that might be required of them.

We advise the Admiral that it would be better not to disturb the status quo.

THE QUEBEC MINING ASSOCIATION.

The following programme has been issued for the sixth annual meeting of the General Mining Association of the Province of Quebec, which is to be held in Windsor Hall on the 8th, 9th and 10th of January:

WEDNESDAY, JANUARY 8TH.

Morning Session at 11 a.m.—(a) Minutes of previous meetings; (b) notice of motion; (c) secretary's report; (d) treasurer's statement; (e) election of new members; (f) election of president; (g) election of members of council; (h) other business

Afternoon Session at 3 p.m.—Review of the Mineral Industries of Quebec in 1895; Iron Mining and Trade, by G. E. Drummond, Montreal; Pyrites and Copper, by John Blue, C & M E., Capelton, Asbestos Mining, by John J. Penhale, Black Lake; Chromic Iron, by J. Obalski, Inspector of Mines, Quebec; Graphite, H. P. H. Brummeil, Ottawa.

Evening Session at 8 p.m.—Mica Mining and Trade, by H. C. Baker, B.A., Sc., Templeton, Que., Notes on the Occurrence of Gold in Quebec, by R. W. Ellis, Ottawa, Notes on the Mining Law, by Dr. R. W. Raymond, New York, Imports of Canadian and Foreign Coal, by B. T. A. Bell, Ottawa; Phosphate, by J. S. Higginson, Buckingham.

THURSDAY, JANUARY 9TH.

Afternoon Session at 3 p.m.—Electricity in Mining, discussion of W. F. Dean's paper presented at Quebec meeting; Water Tube Boilers, by W. T. Bonner, Montreal; Some Conditions to Successful Gold Mining, by J. T. Donald, Montreal.

Evening at 8 p.m.—*Student's Session.*—The Hon. E. J. Flynn, Commissioner of Crown Lands, in the chair.

The following papers have been entered for competition in accordance with Sec. XI., Par. 31 of the Constitution and By-Laws; The Petrolia Oil Industry, by W. Morton Webb, McGill University (Engineering); a Rapid Volumetric Method for Estimating Sulphuric Acid and Sulphur, by F. J. Pope, Kingston School of Mining; Notes on the Eustis Mine, by Raoul Green, McGill University (Engineering); The Chlorination Process for Extracting Gold, by C. Garnet Rothwell, Kingston School of Mining; Notes on the Archean with Reference to certain Metalliferous Deposits immediately North of Lake Huron, Ont., by R. W. Brock, Kingston School of Mining.

FRIDAY, JANUARY 10TH.

Afternoon Session at 3 p.m.—Notes on Hydraulic Mining, by John B. Hobson, M.E., Vancouver, B. C.; Notes on Wire Ropes, by F. H. Hopkins, Montreal.

Evening at 8 p.m.—Smoking concert.

In the same place on Friday morning at eleven o'clock there will be a meeting of delegates from the Mining Society of Nova Scotia, the Ontario Mining Institute and the General Mining Association of the Province of Quebec, to consider a programme for the ensuing year, to arrange for united action on the subject of imports of free mining machinery and other matters of interest to the Canadian mineral industries.

In the issue of THE CANADIAN MANUFACTURER of September 7, 1894, was published the full text of the United States tariff that had just then been passed. Elsewhere in this issue will be found the text of the amendments to that tariff, proposed in a bill introduced in the House of Representatives

last week, and which it is probable will become law. Reference to our issue first mentioned will explain the new bill herewith published.

EDITORIAL NOTES.

A small electric lamp is being used instead of a bell in some telephone exchanges in England. The call for connection lights the lamp.

Protection has got the blind staggers.—Toronto Globe.

Not at all. Protection is all right, but the grooms, some of them, are somewhat shaky.

Speaking of the recent elections The Globe says.

Canadian interests neglected, the merchants and farmers and manufacturers of Canada treated as if they were children, and a halting policy pursued all round.

When the manufacturers unite in sending practical business men to represent them in the councils of the nation instead of scheming politicians, they will not be treated as if they were children.

An Order in Council has been passed by which silk in the gum, or spun, when imported by manufacturers of silk underwear, to be used in their own factories in the manufacture of such goods and for no other purpose is admitted into Canada duty free.

A meeting was recently held at St. Johns, Que., to consider a project to construct a canal from St. Johns to the St. Lawrence River via Laprairie. It was claimed that the route would obviate the long detour via Sorel, and reduce the distance by water to Montreal from ninety to about twenty-five miles. The proposed canal would be only about eighteen miles in length, traversing a country presenting no engineering difficulties.

Mr. F. H. Clergue, president of the Sault Ste. Marie Pulp and Paper Company, Sault Ste. Marie, Ont., writes us as follows. "I read the CANADIAN MANUFACTURER with much interest, and I am glad to contribute towards its support by enclosing copy for an advertisement therein." Mr. Clergue's company is probably the largest paper and pulp manufacturing concern in Canada.

The best medical authorities state, according to the St. Louis Grocer, that the use of alcoholic liquors is the active cause of from 15 per cent. to 50 per cent. of all the insanity and from 30 per cent. to 80 per cent. of all the idiocy of the United States. Judging from recent events at least 99 per cent. of the population of that country are in a badly demented condition, but why attribute so much of it to whiskey?

The Japanese are now manufacturing cigarettes that they can sell at the rate of fifty for one cent. They are sending some of their brightest men into the civilized countries as consular agents, and hope to establish commercial communication with all countries, to be followed by international trade. They propose to put all classes of jewelry and the lighter manufactured articles into other countries at a price that defies the high tariff.

It is said that the "joke" practiced by Mr. Willoughby—a professional man—a lawyer, upon another professional man, Mr. Nesbitt, a doctor, was perpetrated in a spirit of so-called "fun," but the amusement was of a very grim nature. It demonstrated, too, the supreme statesmanship of these two professional men, one of whom, it would seem, was willing to offer and the other to accept a bribe, one offering money and other considerations against a seat in the Dominion House of Commons. It was indeed a huge joke for Dr. Nesbitt to dicker with Lawyer Willoughby, the stakes being of such great importance. It is to be hoped that neither of these statesmen will ever again offer themselves for the suffrages of intelligent electors. It is now time for common sense business men to be brought forward in Dominion elections.

The manufacturers of American baskets are asking for a higher tariff duty. They claim that in 1893 40,000 dozen baskets were made in the United States and sold, and that in the present year 22,000 dozen baskets were turned out, and half of them are unsold. The wages of the employes in that industry in 1893 were \$3 per day, and have decreased to \$1 per day. The majority of baskets brought to this country are said to be made in Russian prisons, then carried into Germany and brought to America. This ruse saves \$1 per dozen on the cost of the baskets laid down here. The American-made basket has dropped in price from \$5 to \$2.50 per dozen, and the manufacturers of baskets claim that the difference, while ruining their business, does not benefit the consumer, as the merchants who sell baskets charge the same price that was formerly charged.—St. Louis Grocer.

The American Wool and Cotton Reporter has an idea that Mr. Cleveland has made a consummate ass of himself. Hear it:

We are convinced that the final outcome of President Cleveland's message will be mortifying to our national pride. The fear in our mind is that the message will be classed as another indication of the inability of Americans to properly manage their affairs, and that it will not inconsiderably retard the recovery of confidence on the part of foreign investors in our financial enterprises. Few persons are in a position to realize how great the distrust of this country has been and is. That it would have been even greater during the last two or three years than it has been, had it not been for the appreciation abroad of President Cleveland's sound common sense, will not be disputed by persons conversant with the situation. When the one man to whom foreign investors have pinned their faith resorts to the methods of the politician, foreign investors cannot be blamed if they shut their pocket books tighter than ever in the face of Americans with securities to sell.

British spinners are not now as dependent upon the United States for cotton as they were some years ago. United States Consul-General Panfield at Cairo, Egypt, has made a report to the State Department at Washington calling attention to the rapid growth of Egypt as a competitor with the United States for the cotton markets of the world. At present Egyptian cotton is sold at Alexandria for two cents per pound more than the price of American cotton, and owing to the superiority of the Egyptian product it is being purchased in quantities for export to the United States. The sales, which ten years ago amounted to but 3,815 bales, have increased until, from the best estimates, it is believed that during the year beginning Sept. 1, 1895, no less than 50,000 bales will

be shipped to the United States, and as these Egyptian bales are 50 per cent. larger than the American, the exports will really amount to 75,000 bales, according to the American standard.

The Engineering and Mining Journal asks its readers to reflect upon what the result of a war between Great Britain and the United States would mean to the latter country generally and to its mining interests in particular. It points out that quite apart from the enormous export trade in breadstuffs, cotton, etc., the export of manufactured goods is going on at the rate of \$200,000,000 a year, in addition to which the exports of silver for 1895 were about \$50,000,000, and 60,000 tons of copper valued at about \$14,000,000. "These are no musty figures," its tells us, "but actual facts, and unless by a magician's wand we could create a fleet sufficiently numerous to convey these exports of various kinds, what would become of the market for these exports, and what would be the price of silver and copper?" It is well that our American neighbors weigh the cost to their country of Mr. Cleveland's efforts to obtain a third term in the presidential chair.

J. M. Fortier, a leading Montreal manufacturer, who has been a supporter of the high tax policy since 1878, recently reached the conclusion that the country needs a change. This well known Montrealer was chairman of the great Liberal meeting in Montreal the other evening. He is but a type of thousands of Canadians who were misled by the promises of the high tax advocates, and who are now ready to vote for the displacement of men who have betrayed their trust, and who have foisted upon Canada a fraudulent and class system of taxation.—London Advertiser.

Is this the Mr. Fortier, the tobacco manufacturer who is so well known in labor circles as the man who spanked girls in his factory when they did not perform as much service as he expected of them? The name sounds quite familiar in that connection. If this is the same man it is quite in keeping with him to be chairman of a meeting of politicians whose aim is to destroy a system that is much respected by manufacturers who do not spank factory girls. Mr. Fortier, the girl spanker, however, is not a type in any sense of any class of Canadian manufacturers.

It is a queer time for the Globe to be renewing its cry for reciprocity with the United States, but that is just what it is doing. It tells us that "four years ago Sir John Macdonald prematurely dissolved Parliament on the pretense that the Government desired the authority of the Canadian people to negotiate a reciprocity treaty with the Washington Administration; that it is a fact that anyone in Canada who has made a study of the question knows that a reciprocity arrangement with our neighbors would be of great advantage to the Canadian people", that "there is nothing humiliating in an honorable trade bargain—there would be humiliation if, in order to secure reciprocity, we sacrificed one jot of our national integrity." The Globe is right in saying that Sir John wanted to negotiate a reciprocity with the United States, and the reason that he failed in doing so was that our amiable Yankee friends demanded terms that would have been humiliating to Canada and a sacrifice of our national integrity. Sir John would submit to no unfair discriminations against Great Britain.

Advices from Tokio, Japan, states that there is a rumor that the Japanese Government has entered into arrangements with Armstrong & Co., the great English firm of ship builders and gun makers, for the establishment of a dock yard and gun factory in Japan. The Japanese already possess dock yards where they can build men of war, importing the armor plates, etc., from Europe, and they possess also arsenals, where excellent weapons and ammunition are manufactured. But they are obliged to depend on foreign countries for their steel, and this has long been a strong agitation in favor of starting a steel foundry in the country. The proposed terms are that twenty per cent. of the labor should come from England, and eighty per cent. be furnished by Japan, the Japanese Government contributing an annual subsidy and reserving the right to purchase the works at the end of a certain number of years, by which time the necessary skill will have been acquired. If this scheme is consummated, Japan will soon be building all her own ships of war and manufacturing her own armament.

Many and many an American industry has been forced, by the Canadian National Policy, to establish a factory in this country, and if a Canadian concern desires to extend its business to the United States, it is forced by the American tariff to establish a factory over there. The scheme of protection obtains in both Canada and the United States. The Canadian tariff nurses the infant here, and the American tariff nurses him there. It is easy for a Tory to understand how the manufacturer of agricultural implements who can flourish in Canada on a protective tariff of 20 per cent.

can manage to get along in the United States with a protective tariff of 45 per cent. There is nothing particularly mysterious about that. If a tariff of 20 per cent. enables the Canadian maker of reapers to "rob" the people a tariff of 45 per cent. in the United States will enable him to go over there, start a factory, and more than double his robbery. And that reminds us that the Canadian Grit is constantly reminding the Canadian farmer that the duty of 20 per cent. enables the Canadian manufacturer to rob him to that extent. The remedy according to the Canadian Grit, is to remove the duty, that the American robber, with his 45 per cent. protection may get at the unfortunate farmer.—Hamilton Spectator.

The Customs Department have issued a memorandum to Collectors of Customs regarding the sale of unclaimed goods as follows: With a view to realizing the best prices possible for unclaimed goods, it has been decided to have sales of such goods more frequently than has hitherto been the practice, and you are hereby instructed, before allowing such sales to take place, to permit intending purchasers to see and know the contents of the packages offered for sale; and, where practicable, the goods should be unpacked, scheduled and appraised, the quantity and description of same should be stated and detailed, and the appraised value and duty exigible thereon, together with the transportation charges, if any, should be placed opposite each item as scheduled; proper samples, showing the quality and class of the goods, should be taken and exhibited at the time of sale, and the goods should be repacked in their original packages. You are

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OAK TANNED LEATHER BELTING

MONTREAL AND TORONTO.

Orders addressed either to our Toronto or Montreal office will have prompt care
Goods will be forwarded same day as order is received.

further instructed that unclaimed goods, against which there are any transportation charges, should not be allowed to remain unclaimed for a longer period than six months; but before a sale thereof is determined upon, a schedule should be prepared and forwarded to the department, showing the appraised value of such goods, the duty payable thereon, and the amount of the transportation charges against same, and the transportation company shall be notified of the time fixed for the sale.

Kansas City merchants are endeavoring to defend the large packing industries of that city against the unjust charges made by two trade papers, the "Commerce" and the "Board of Trade," published in London, England. These papers are persistent in attacking beef packers, making the charge that horse flesh is frequently substituted for beef. To an American this charge seemed silly, but to an Englishman it seems very reasonable, and as the English are beef eaters and have not a French taste for horse meat, they are easily persuaded to believe the charges made by the two trade papers.—St. Louis Grocer.

English capitalists are at Ottawa in connection with the establishment of a great pulp industry in the Dominion, their object being mainly the supply of foreign paper-makers. Contemporaries will have a troublesome time proving that the tax on their necessary machinery and other requisites, and not the natural supply of pulp wood, promoted the enterprise.—The Globe.

The English capitalists know a good thing when they see it, and they undoubtedly see a good thing in Canada's im-

mense supply of pulp wood. Wishing to enjoy this remarkably good thing they will be willing to pay whatever duty may be levied upon their necessary machinery and other requisites. There are a gratifyingly large number of concerns in Canada who can manufacture whatever machinery and other requisites these capitalists may require, and it is the correct policy of the Government to protect their industries.

The fact is that the gentlemen on Parliament Hill considered as a body do not represent anything. They do not represent the Conservative party. Some of its members have possibly a personal following, but as a body they represent nothing that is discoverable to the most microscopic eye.—The Globe.

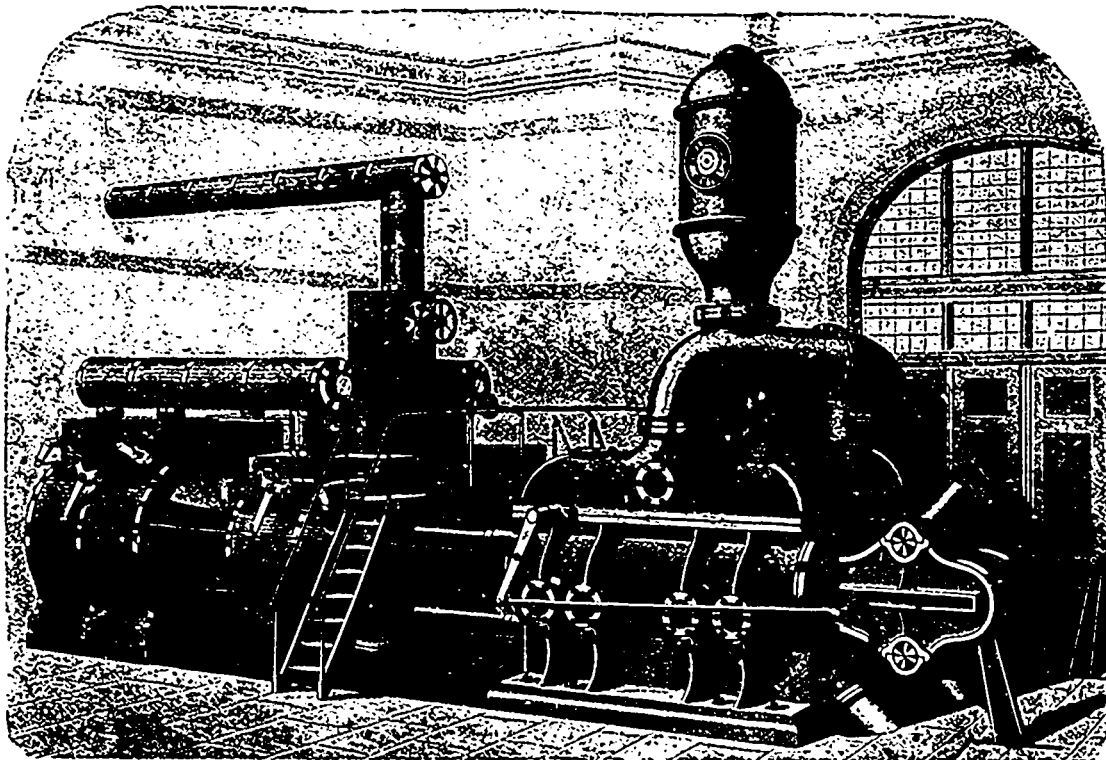
One thing that the gentlemen on Parliament Hill should do as quickly as possible—rescind the Order in Council that is working so much injury to the manufacturing industries of the country by allowing a rebate of 99 per cent. of the duty paid upon imports of materials consumed in manufacture of goods for export. The order should be withdrawn without delay, and a bounty equivalent to such duty paid in the stead thereof. This should be done whether the Manitoba schools keep or not.

Francis D. Carley, President of the Monetary Trust, says: "Modern warfare is money against money. Upon battlefields of finance the guns make no noise, but their wounds are deep. England can mutilate the most vital values in our country without cannon and long before our war ships could be built. A man in a 'blind' shooting ducks might not see this, but every financier knows it. Our proud Republic should now bow its

JOHN McDOUGALL

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General Agents
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THE FAMOUS

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WORTHINGTON PUMPS ARE UNEQUALLED FOR EFFICIENCY AND ECONOMY

head in shame, and stand abashed in the face of all empires on the globe. Its President is not the dignified representative of sound finance and a peace loving people, but an opera bouffe financier, who destroys the securities he tries to sell, and prances, with life and drum, at the head of an imaginary army. Soon the real friends of this Republic who believe in peace, industry and Christianity and oppose barbarity and the nauseating barter of principle for that vindictive vote which hates England, will come to the front again and sound securities should be bought. They are now selling \$20 per share below intrinsic merit."

A great deal of attention is now being given to the immense pulp-wood forests of Canada. For years American pulp manufacturers has been buying the wood in vast quantities and shipping it into the United States for grinding or digesting. But the Dominion authorities are realizing that they have a treasure in these spruce forests and there is talk of an export duty, which if enacted will make the wood much more costly by the time it reaches our pulp mills. The attention of capitalists is also drawn towards the erection of pulp mills on Canadian soil; and this interest is not confined to our side of the water. English paper manufacturers now import several hundred thousand tons of pulp annually, and their first and nearest interest lies with the Canadian supply. Why should the not plant mills there, and convert the forests into pulp, or, going a step further, produce the paper as well, and in that form send it across the Atlantic? Some of these cogitations are already materializing, and it would not be surprising if there should be many changes in affairs over the bor-

der, so far as the production of wood pulp is concerned within a very few years.—The Paper World.

With the view of checking alleged undervaluations of imported goods complained of by certain manufacturers, and at the same time of obtaining suggestions for changes in the law, the Secretary of the Treasury has addressed a letter to the Secretary of State requesting that a circular be addressed to consular officers asking information covering their districts regarding such points as the names of exporters and consignees; whether exporters are manufacturers, commission merchants, or actual purchasers; the grade of goods; whether they are sold or consigned; whether it is suspected that proper forms for invoicing are not used; whether goods consigned are shipped exclusively to agents in the United States or are sold and consigned to one person in the United States; whether invoice values are based upon actual market values or upon cost of production, in how many instances have notations as to values been made on invoices during the present calendar year, and whether it is suspected or there is reason to believe that goods are not invoiced at true market values. Consular officers are also requested to make suggestions as to the authentication of invoices and the protection of the revenues, being informed that such information will aid appraising officers in finding actual market values and may assist in securing proper legislation by Congress. Appraising officers have also been requested to inform the Department what action is taken upon invoices where consular notations have been made, and to state the amount of the advances.—Bradstreet's.

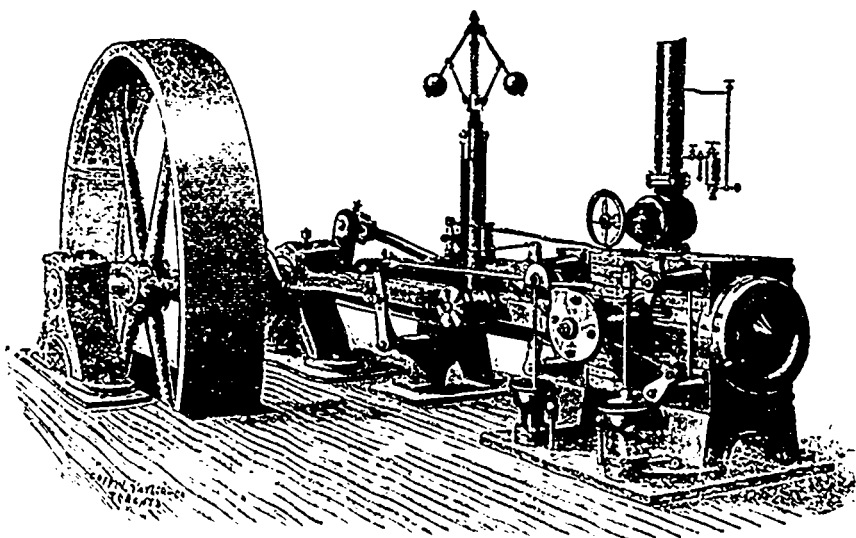
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**Corliss and
Armington
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Engines**

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Engines and
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**Flour Mill
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**Marine,
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and Water
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The reassembling of the United States Congress brings up again for discussion the question of tariff legislation, and various surmises as to what will be done with the textile schedules. The Textile World says:

The wool growers promptly assembled in Washington, and, after considerable discussion, formulated their plans which have been presented to Congress. They confined their request solely to the wool schedule, leaving to the manufacturers the question of presenting their own claims, which they are well able to do. That the woollen schedule needs prompt attention, there can be no doubt. Apart from the iniquity of ad valorem duties, the schedule requires higher rates all round to remedy the hardships under which the woollen manufacturers are now laboring, and to prevent the tremendous imports of woollen goods which are now being made, which are furnishing employment to foreign workmen and profit to foreign manufacturers, at an expense of home labor and capital. It only needs a glance at the startling figures of exports from Bradford to this country during the past year to show how American manufacturers have suffered. The McKinley tariff was a good one, the best this country ever had. The verdict of the people, as expressed at the polls for the last three years, shows that the sentiment in this country is strongly in favor of protection of American industries. It is, therefore, the duty of Congress to take immediate steps towards carrying out the will of the people. The fact that the administration differs politically from Congress, should not deter the latter from passing protective bills. If they are vetoed, the responsibility is then plainly laid at the President's door, and the issue fairly drawn. The textile industries, and especially the woollen branch, need relief, and that soon.

It is surprising how much some National Policy newspapers don't know. Recently in discussing the talked-of removal of

the Massey-Harris Company to the United States the Hamilton Spectator said:

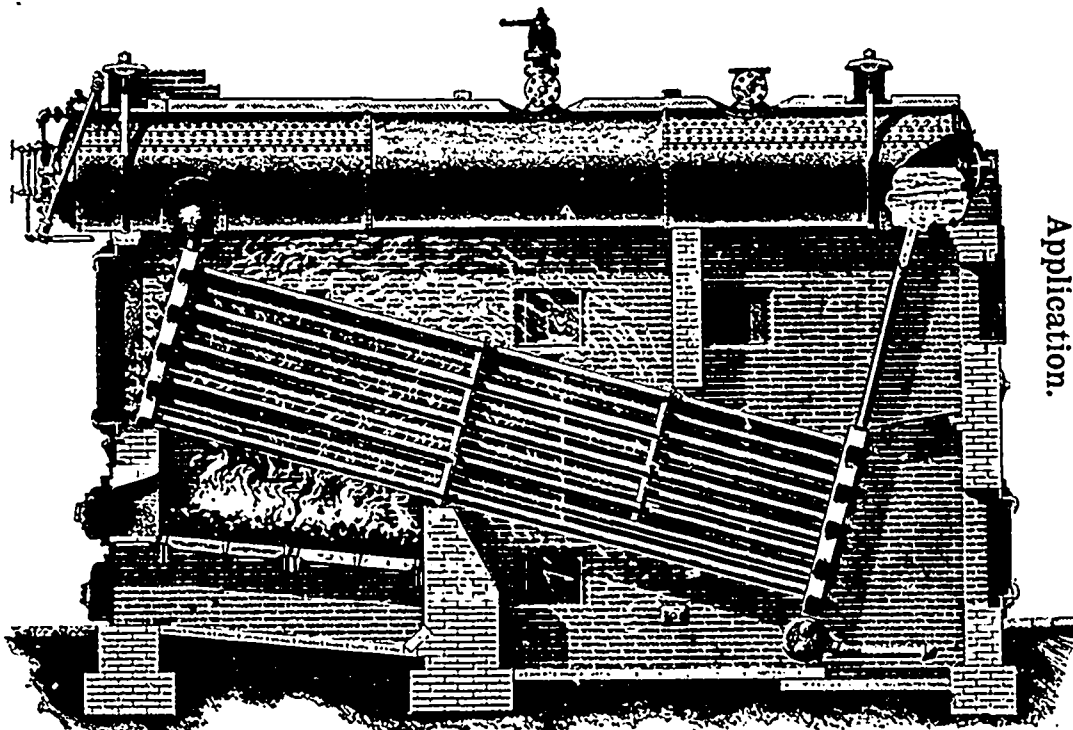
There's another thing in connection with this Massey-Harris business that might be mentioned here. That company starts a factory in the United States to gain access to the market of that country, the 45 per cent. duty closing out all competition from Canada. The same company at its Canadian factories, is enabled, by means of a drawback which amounts to about \$3 in a machine selling for \$125, to compete with the United States makers in South America and elsewhere. The Grits insist in abolishing that drawback. The result of such abolition would be to throw a lot of Canadian workmen out of employment and force the Massey people to build their machines for the South American and other markets in their American factory.

It is not the Grits who insist upon abolishing the Order in Council giving a rebate of 99 per cent. of the duty collected upon materials going into the construction of agricultural implements exported. Those who insist upon the abolition are the manufacturers themselves, not of agricultural implements, but of almost every article and material that enters into their construction. The Order in Council has had a most damaging and disastrous effect upon the manufacture of malleable irons, paints, varnishes, wood screws, carriage bolts, etc., and it is a matter of surprise that the Spectator does not comprehend the situation. Our contemporary is equally at fault, too, in supposing that the abolition of the order would throw any Canadian workmen out of employment. On the contrary the workmen are affected the same as their employers are, and unless the order is rescinded some establishments that we have knowledge of will have to be either run on reduced time, or reduced wages to workmen, or close up and quit. The order should be cancelled.

The Babcock & Wilcox Water Tube Boiler

Over 1,500,000 Horse Power

Of these Boilers now in use



Large Book "STEAM," Sent Free on Application.

Sales During 1892 were 162,300 Horse Power.
Sales for Month of June 1895,
Exceeded 25,000 Horse Power.

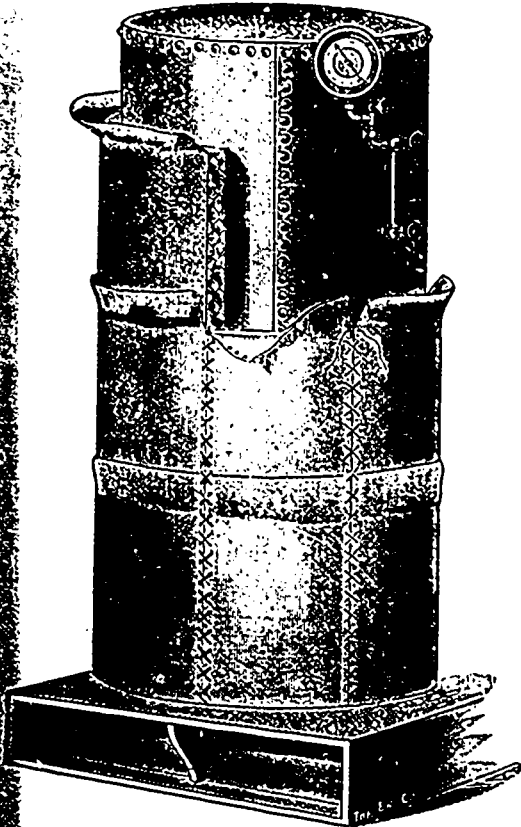
W.M. T. BONNER, HEAD OFFICE—415 Board of Trade Building, MONTREAL.
General Agent for Canada. Shops at BELLEVILLE, CANADA.

The Toronto Globe denounces and ridicules the efforts of the Government to build up and expand our foreign trade in farm products, declaring it to be a paternalism which can never be beneficial or successful. Alluding to the matter the Mail and Empire says: "Let us see what 'paternalism' has done. Millions of pounds of beef from the United States were once thrown into this country. Last year there was none. Our farmers had their own market. In 1889 we imported 27,155,000 pounds of hog products, bacon, pork, lard, and so forth. The duty was imposed in 1890, and this year (1895) the importations were but 4,220,000 pounds. 'Paternalism' has given the Canadian producer a better position in his own market. But having our own market as a sure basis, the farmer has been able in these particular lines to branch out and become an exporter. In 1890 he exported four million pounds of bacon and hams. This year (1895) he exported 40,134,000 pounds. In 1890 he exported 238,000 pounds of pork. This year he exported 1,057,036 pounds. In 1890 he exported 82,000 pounds of lard. This year he exported 1,283,497 pounds. The total exports of hog products in 1890 was 7,813,000 pounds; the total in 1895 was 42,474,588 pounds. What is the net result of 'paternalism' so far as this one item is concerned? We reduced our imports from 26,368,000 pounds in 1890 to 4,220,000 pounds in 1895. We increased our exports from 7,813,000 pounds in 1890 to 42,474,588 pounds in 1895. There has thus been a net market gain to the farmer of 56,800,000 pounds of hog products. Less comes in and more goes out than formerly, and the balance in favor of our own producers is 56,800,000 pounds. The free traders opposed the action which produced this im-

portant result. They are consistently foolish in their opposition to the further action which is to give our beef producers a fair share of the British market.

At a recent meeting of the Canadian Institute in this city, Mr. T. Doherty, of Sarnia, Ont., read an interesting paper on applied science in metal founding. He dealt mostly on the element of carbon in iron, because, as he stated, it was the most important factor in the metal. His object was to show that it was a chemical fixture in the iron, and he based his reasons on the principle that all matter is made up of atoms; that the atom of iron is joined to the molecule of carbon by chemical force and chemical affinity, and that it can only be removed by chemical action. Among other things he said:—

"That the foundry practice of the world has not been kept up to the times, must be admitted by all. We read in the fourth chapter of Genesis: Tubal Cain was an instructor of every artificer in brass and iron, and some historians claim he was the inventor of the foundry. Since his day, down through the rolling ages, cast-iron has not much improved, if we can rely on historical descriptions of what it was in Asia Minor thousands of years ago. This may seem somewhat remarkable, from the fact that there is a mere chalk mark between steel and iron; merely the eliminating of less than 1 per cent. of carbon, in many cases, from the metal. And yet science and invention in all their splendor have devised no means whereby this small percentage could be removed in such a way as would enable the world to substitute cast-iron for malleable at as low a price, and have stood toeing that chalk mark ever since the seventh generation from Adam. True, in the various pneumatic processes of decarbonising cast-iron, steel has been made and utilized to great advantage,



1895.

The Latest Invention in Coal Saving Appliance

“MICA”

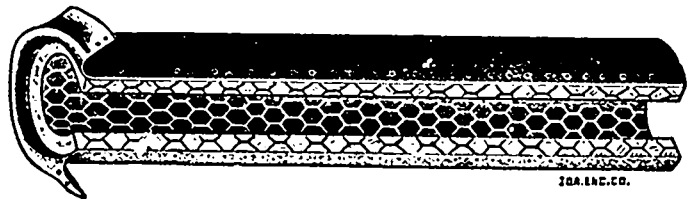
The well-known **Electrical Insulator** successfully adapted as an insulator of **Steam heat. Enormous Saving of Fuel Guaranteed** by the use of **Mica** boiler and steam pipe covering.

Patented

1894

and

1895



Now being used with great success by the Toronto Street Railway Co., Niagara Navigation Co., Toronto Ferry Co., etc., etc. Has been tested and thoroughly examined by the highest authorities and pronounced the most effective in the market. Impervious to the extremes of heat or cold, damp or vibration. Made in any size mats in any shape. Can be applied and removed as often as desired without injury.

SOLE MANUFACTURERS

The Mica Boiler Covering Company (Ltd.)

9 JORDAN STREET, TORONTO.

and is now fast taking the place of iron, and will very likely at no distant day almost entirely take its place, but have not all these processes been the invention of men now living, whose heads are yet scarcely hoary with the passing years?"

He said that he anticipated still further advances along this line at no distant day, when the nature of cast-iron and its combinations is better understood. "Canada," he said, "is rich in iron ore of the finest quality awaiting capital and labor, the pick and shovel, to mine it, and the blast furnace to smelt it. Owing to our geographical position freight rates militate against the product of the far east, while cheap labor and cheap fuel enable the southern furnaces to enter our market even with a high tariff. This state of affairs is not likely to cease to exist for some time to come, and the only hope iron smelters can have in Canada is in producing a fine quality of iron."

THE NEW UNITED STATES TARIFF.

The following is the Tariff Bill introduced in the United States House of Representatives last week, which will probably become law. It reads:—

BILL No. 2—"A bill to temporarily increase revenue to meet the expenses of the Government and provide against a deficiency."

Be it enacted, etc., that from and after the passage of this Act, and until August 1st, 1898, there shall be levied, collected and paid on all imported wools of classes 1 and 2, as defined in the Act hereinafter cited, approved October 1, 1890, and subject to all the conditions and limitations thereof, of all hair of the camel, goat, alpaca and other animals, except as hereinafter provided, and on all shoddy, garnetted waste, top waste, slubbing waste, roving waste, ring waste, yarns waste and all other wastes composed wholly or in part of wool, and on all woollen rags, mungo and flocks, the duty equivalent to sixty per centum of the duty imposed on each of such articles by an Act entitled "An Act to reduce the revenue and equalize duties on imports, and for other purposes," approved October 1, 1890, and subject to all the conditions and limitations of said Act; and on all wools and Russian camel's hair of class 3, as defined in said Act, approved October 1, 1890, and

subject to all the conditions and limitations thereof, there shall be levied, collected and paid the several duties provided by the said Act, approved October 1, 1890. And paragraph 279 of schedule K, and also paragraph 685 in the free list in an Act entitled, "An Act to reduce taxation, to provide revenues for the Government and for other purposes," which became a law August 27, 1894, are hereby suspended until August 1, 1898.

SECTION 2—That from and after the passage of this Act, and until August 1, 1898, there shall be levied, collected and paid on all imported articles made in whole or in part of wool, worsted or other material described in section 1 of this Act, except as hereinafter provided, sixty per centum of the specific pound or square yard duty imposed to each of said articles by an Act entitled "An Act to reduce the revenue and equalize duties on imports, and for other purposes," approved October 1, 1890, and subject to all the conditions of and limitations thereof. In addition to the ad valorem duty now imposed on each of said articles by an Act entitled "An Act to reduce taxation, to provide revenue for the Government and for other purposes," which became a law August 27, 1894; and on carpets, drugs, etc., bookings, mats, rugs, screens, covers, hassocks, bedsides, art squares, and other portions of carpetings made in whole or in part of wool, the specific square yard duty imposed on each said articles by said Act, approved October 1, 1890, and subject to all the conditions and limitations thereof, in addition to ad valorem duty imposed on such articles by said Act, which became a law August 27, 1894.

SECTION 3—That from and after the passage of this Act, and until August 1, 1898, there shall be levied, collected and paid on all imported lumber and other articles designated in paragraphs 674 to 683, inclusive, of an Act entitled "An Act to reduce taxation, to provide revenue for the Government, and for other purposes," which became a law August 27, 1894, a duty equivalent to sixty per cent. of the duties imposed on each of such articles by an Act entitled "An Act to reduce the revenue and equalize duties on imports, and for other purposes, approved October 1, 1890, and subject to all conditions and limitations of said last named Act, but pulp wood shall be classified as round unmanufactured timber, exempt from duty, "provided that in case any foreign country shall impose an export duty upon pine, spruce, elm or other logs or upon stave bolts, shingle wood, pulp wood or heading blocks exported to the United States from such country, then the duty upon

PACKARD

Lamps

...and...

Transformers

PACKARD

.....PRICES ARE RIGHT AND QUALITY GUARANTEED.....



...Get Our Quotations on Supplies...

We carry a Full Stock of

SOCKETS, CUT-OUTS, INSULATORS, WIRE,
ETC., ETC.

The Packard Electric Co., Ltd.

ST. CATHARINES, ONTARIO

the lumber and other articles mentioned in said paragraphs 674 to 683, inclusive, when imported from such country, shall be the same as fixed by the law enforced prior to 1890."

Section 4—That on and after the passage of this Act, and until August 1, 1898, there shall be levied, collected and paid on all imported articles mentioned in schedules B, C, D, F, G, H, I, J, L, M and N, of an Act entitled "An Act to reduce taxation, to provide revenue for the Government and for other purposes," which became a law August 27, 1894, a duty equivalent to fifteen per cent. of the duty imposed on each of said articles by the existing law, in addition to the duty of August 27, 1894, provided that the additional duties imposed by this section shall not in any case increase the rate of duty on any article beyond the rate imposed thereon by the said Act of October 1, 1890, but in such cases the duties shall be the same as were imposed by said Act, and provided further that where the present rate of duty on any article is higher than was fixed by said last-named Act, the rate of duty thereon shall not be further increased by this section, but shall remain as provided by the existing laws.

Messrs. Wm. Doherty & Co., Clinton, Ont., have sent us their new illustrated catalogue and price list having reference to the Doherty organ manufactured by them. They inform us that they commenced the manufacture of organs, and it is with pardonable pride that they review the growth, development and present magnitude of their business, having a demand at the present time, they say, for some 400 organs per month.

Outing for January wears the richest garb among the holiday publications. The stately elk, amid his golden bravery, seems to know that there are good things behind him. The quality of text and illustration makes this holiday number the best that has left Outing's presses. Notable features are, "Sweet Marjory," by Sara Beaumont Kennedy, "Winter Fishing," by Ed. W. Sandys; "The Horse of Society," by E. B. Abercrombie; "An Arctic Castaway," by R. G. Taber, and "A Moose Hunt on the Yukon," by the late V. Wilson.

The New Year's Ladies' Home Journal brings with it abundant assurance that it has inaugurated the red letter day of its existence—that it will be better in 1896 than ever. The best known

writers and artists are represented in their best achievements. On the cover page is reproduced Albert Lynch's famous painting, "The God mother," in half-tone. Mary Anderson de Navarro continues the interesting reminiscence of her "Early Days on the Stage." Ex-President Harrison's paper "This Country of Ours," explains the Federal Constitution, and defines its scope and limitations. Other contributions cover the field of fashions, discuss matters of etiquette, and various topics of home interests. The departments are bright, attractive and complete. The Curtis Publishing Company, Philadelphia; one dollar per year.

The following item from the "Iron and Coal Trades Review" will be of interest to Nova Scotian iron manufacturers.—"Under the lee of a big demand which keeps up the United States, the manufacturers of Canadian iron are doing a good business. Beyond question the present season is the best one the Nova Scotia furnace men have ever had. In their early days they were kept back by the competition of British irons which was often carried as ballast across the Atlantic. When at last the British irons began to give ground in the interior, especially in Ontario, it was not before the Nova Scotia brands they retreated. A new competitor of the latter, United States iron, was capturing the Ontario market. With American irons in Ontario and British irons to struggle against in Quebec and the Maritime Provinces, the Nova Scotian iron industry found the problem of existence hard enough. Finally British iron practically withdrew. Then a more spirited contest was made with American iron by that of New Glasgow, Londonderry and Ferrona furnaces, which, having captured the Montreal trade from the British, was in a better position to dispute that of Ontario with the United States. But the extraordinary depression in America iron prices told against the Nova Scotians; at last prices went up in the United States. All iron made there was wanted at good prices at home. The American iron withdrew, and though stocks in Ontario were full when the advance came there had been time since for them to run down and make room for the absorption of several thousands of tons of the home article."

The Cottingham Varnish Co., Montreal, have been incorporated with a capital stock of \$20,000 to manufacture varnish, Japans, oils, etc.

The Royal Electric Comp'y

MONTREAL, QUE.



Western Office.... TORONTO, ONT.

Are now prepared to receive orders for the justly celebrated

STANLEY TRANSFORMERS

—A MONEY MAKER FOR THE CENTRAL STATION—

None equal them. They increase station capacity. They diminish operating expenses.

Economy Efficiency Regulation

ALSO A FULL LINE OF ELECTRICAL APPARATUS

ARC DYNAMOS ARC LAMPS RAILWAY GENERATORS RAILWAY MOTORS

S. K. C. TWO PHASE ALTERNATING GENERATORS AND MOTORS

Direct Current Generators and Motors, Switchboards, Instruments, Wire, Electrical Supplies.

CORRESPONDENCE SOLICITED For ELECTRIC LIGHTING, RAILWAY, MANUFACTURING AND MINING WORK ISOLATED PLANTS, CENTRAL STATIONS, LONG-DISTANCE TRANSMISSION FOR LIGHT AND POWER.



CAPTAINS OF INDUSTRY.

This department of the "Canadian Manufacturer" is considered of special value to our readers because of the information contained therein. With a view to sustaining its interesting features, friends are invited to contribute any items of information coming to their knowledge regarding any Canadian manufacturing enterprises. Be concise and explicit. State facts clearly, giving correct name and address of person or firm alluded to, and nature of business.

Chas. G. Griffin is establishing a dynamite factory near Kirkfield, Ont.

James Lockart, McKillop, Ont., will build a saw mill at that place.

O. & W. McVean's wheel factory at Dresden, Ont., was recently destroyed by fire.

The proposed system of electric light at Levis, Que., will cost about \$180,000.

Hampton, N.B., will soon have electric light. Electric cars between Hampton and St. John, N.B., are also talked of.

Perron, Desbiens & Cie, St. Jerome, Que., have been incorporated with a capital stock of \$10,000 to manufacture lumber.

An effort is being made to induce the Record Manufacturing Company, of Conneaut, Ohio, to establish a branch factory in Simcoe, Ont., for the manufacture of tin and wooden ware, under their Canadian patents.

The British Columbia Pottery Co., Victoria, B.C., have been incorporated with a capital stock of \$150,000 to acquire the business of the British Columbia Pottery Co., and to manufacture sewer pipe, drain tile, terra cotta, etc.

The Non Magnetic Asbestos Co., Montreal, are applying for incorporation with a capital stock of \$15,000, to carry on asbestos and other mining works, etc.

The Witham Shoe Company, Montreal, are applying for incorporation with a capital stock of \$100,000, to take over the business of Jas. Witham & Co., and to manufacture boots, shoes, etc.

E. G. Thompson will start a sash and door factory at Trail, B.C.

The Richmond Creamery Co., Toronto, have been incorporated with a capital stock of \$50,000 to manufacture butter, etc.

The New Richmond Lumber Co., Richmond, Que., have been incorporated with a capital stock of \$10,000 to manufacture lumber.

The Mooretown Salt Co., Courtwright, Ont., have been incorporated with a capital stock of \$10,000, to manufacture salt, with head office at Wallaceburg, Ont.

The Gartshore-Thomson Pipe & Foundry Co., Hamilton, Ont., are applying for incorporation with a capital stock of \$50,000, to carry on the business of iron foundries, etc.

The Board of Trade of Waterloo, Ont., has recommended a bonus of \$30,000 to the International Radical Railway.

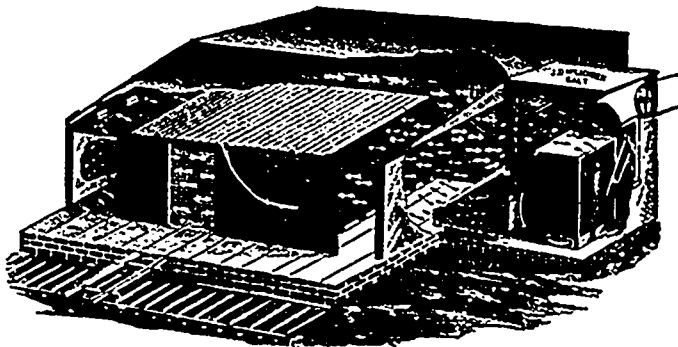
Messrs. McDougall and Gillies, M.P.'s, and Messrs. Gregg and Hyell, of the Colheath copper mines, have interviewed the ministers and urged that a bounty be granted on the higher grades of copper produced in Canada, it being the intention of this company to erect smelting works. They have already expended \$400,000 in mining.

The Metallic Roofing Co., Toronto, inform us that they have supplied their embossed metallic ceiling for the entire requirements of the new factory in Toronto of the Gendron Mfg. Co., and that the ceilings of Messrs. D. S. Perrin & Co.'s extensive offices in London, Ont., have just been covered with their embossed ceiling.

On account of the high duty exacted by the Canadian government on all alcoholic extracts, Messrs. McKey & Co., of Boston, Mass., have prepared "Blue Seal" ginger ale paste, which they put up in twenty oz. bottles, each bottle of which makes about ninety-five dozen half pint bottles of most delicious aromatic ginger ale. As it only costs \$1 a bottle, our readers will see that it is cheap in price, and as it is excellent in quality we would advise every bottler to send for a sample before purchasing any ginger ale extracts or pastes. We understand that Messrs. McKey & Co. will send a sample free of charge to any Canadian bottler who will mention THE CANADIAN MANUFACTURER in asking for it.

McEachren's System of Drying, Heating and Ventilating

Under Recent Patents.



CHEAP AND EFFECTIVE.
HIGHLY APPROVED OF BY PRACTICAL MEN.

The following is a specimen of letters received from customers:

J. D. McEachren, Esq., Galt, Ont.

OTTAWA, April 1, 1895.

DEAR SIR,—Replying to your enquiry regarding Dry-Kiln purchased from you last summer, we beg to state that our lumber is stained hardwood, principally birch, which is put through a chemical process thereby rendering seasoning a very difficult operation. We tried to have it dried in the several styles of kilns used by factories in this district, all of which failed to take the moisture out of the core of the wood. In August last we put in one of your kilns with a capacity of 10 cars, or 3,000 feet, and since that time have seasoned most satisfactorily about 200,000 feet. The boards come out free from checks and warps, and we are now thoroughly convinced that it is the only dry-kiln in the market which fills the bill both as to efficiency and economy.

Yours truly,

McRAE BROS. & CO.

For particulars address—

McEACHREN HEATING AND VENTILATING CO.
GALT, - - - ONTARIO

Buffalo Lumber Dry Kilns



THE LARGEST DRIER IN AMERICA IS EQUIPPED WITH A
"BUFFALO" HOT BLAST APPARATUS.
THE OWNERS ARE ENTHUSIASTIC.

All users of Buffalo Kilns write letters similar to this one:
"The Kiln answers every purpose to perfection: the Dry Rooms are run with exhaust steam at mere nothing in the way of cost, compared with the old way. Your arrangement is very simple and easily managed, besides being a money saver in operation. We are able, with the Kiln you sent us, to dry soft woods in three days, and hardwoods in five days. That's good enough for anyone." SMITH Bros., Sayre, Penn.

Send for Catalogue.

Buffalo Forge Co., Buffalo, N.Y., U.S.A.

SOLD IN

Toronto, Ont., by H. W. Petrie.

Brantford, Ont., by Canadian Machinery and Supply Co.

Montreal, Que., by Canada Machinery Agency.

Chicago Store, 22 and 24 West Randolph Street

W. Lee, Barkerville, B.C., will erect a sawmill in the spring.
 The Blue Sawmill Co., Rossland, B.C., will erect a new mill.
 Blue & Fisher, sawmill owners, Rossland, B.C., intend opening a branch at Midway, B.C.

The McDonald Nut Lock Company of Canuda, St. John, N.B., are applying for incorporation with a capital stock of \$60,000, to manufacture nut locks, etc.

A scheme is being considered with a view to extending the Bear River electric light to Digby, N.S. The power would be generated by the Bear River waterfalls, and would be sent over ten miles of wire.

The Napierville Junction Railway, a new line between St. Remi, Que., and Stottsville, Que., is preparing for active work. It runs through the parishes of St. Michel, St. Edward, Douglassburg and St. Phillippe, a distance of about twenty-two miles. The Dominion Government has subsidized the road with \$3,500 per mile, and the towns of Napierville and St. Edward have given bonuses of \$10,000 and \$2,500 respectively. The town council of St. Remi will grant a subsidy of \$3,000. Hon. Mr. Lavolette is president of the road.

The Bréithaupt Leather Co., Listowel, Ont., have been making great improvements in their tannery. A second eighty horse power boiler and a new smoke stack are amongst the additions.

The Dominion Woollen Manufacturing Co., Montreal, are applying for incorporation with a capital stock of \$300,000, to manufacture blankets, woollens, etc.

Messrs. Hill & French's lumber mill at Ship Harbor, N.S., was burned recently. Loss about \$70,000.

The Sherbrooke Telephone Association, Sherbrooke, Que., will apply to the legislature for authority to increase its capital stock and to change its name to the Eastern Townships Telephone Co.

The Reid & Tate Fish Co., Selkirk, Man., are applying for incorporation with a capital stock of \$60,000, to carry on the business of packing fish, etc.

The Bristol Company, Waterbury, Conn., have sent us what they call a partial list of the Bristol recording instruments for pressure, temperature and electricity, manufactured by them. Alluding to these instruments we are told that there are thousands

of them in daily operation, that their ranges are adapted to any requirement, and that every instrument is guaranteed to give satisfaction. This "list" seems to cover about everything that could possibly be required in the lines to which it alludes, but the company offer to send illustrated descriptive catalogue of any instrument made by them to whoever may apply.

The township of East Flamboro, Ont., has offered to submit a bonus by-law for \$30,000 and the village of Watertown one for \$6,000 in favor of the proposed International Radial Electric Railway Company.

A new foundry is being built at Gibson, N.B. The main building will be 50x40 feet. The addition or ell will be 40x30, making the entire length of the structure 100 feet. Mr. McAfee of St. John, N.B., is manager.

The B. Greening Wire Co., Hamilton, Ont., have favored us with a copy of their 1896 illustrated calendar, such as they send to their friends every year. While the company aim at getting up something useful enough to be kept, so that they may obtain the full advantage of the calendar as an advertising medium, they have produced an exceedingly attractive and unique affair in which the figures are large enough to be seen all over an ordinary sized office, the blank spaces being used for advertising the different lines the concern manufactures, namely, wire rope, perforated metals, chain, door mats, window screens, netting, wire cloth, fencing, upholsterers' springs, etc. They issue an illustrated catalogue for each of the lines of goods they produce, which they will send to our readers on application. The last page of the calendar is filled with very useful tables.

MEETING OF THE SHAREHOLDERS OF THE CANADIAN MANUFACTURER PUBLISHING COMPANY.

The Shareholders of the Canadian Manufacturer Publishing Co. are hereby notified that a General Meeting of the Company will be held on Monday, the 27th day of January, 1896, at the hour of 11 o'clock in the forenoon, at the Head Office of the Company, 11 King St. West, in Toronto for the purpose of receiving and considering a report from the Directors upon the affairs of the Company, and of taking into consideration and if approved to adopt by laws of the Company, to elect a Board of Directors for the ensuing year, and generally to consider other business of importance to the Company.

Dated this 2nd day of January, A.D., 1896.

J. C. GARDNER, Secretary.

...INCANDESCENT LAMPS...

Manufactured by....

THE EDISON AND SWAN UNITED ELECTRIC LIGHT CO.

STAND HIGHEST IN THE MARKETS OF THE WORLD FOR GENERAL ELECTRICAL AND MECHANICAL PERFECTION, AND ARE MADE FROM 1 TO 2,000 C.P. IN ALL VOLTAGES, COLORS AND SHAPES . . .

Electrical Supplies of Every Description

JOHN FORMAN, 650 CRAIG STREET
 MONTREAL

MOST BOTTLERS KNOW

The extraordinary merits of



Ginger Ale

(DISTILLED.)

and are now placing large orders with us for the coming season's use. This concentrated and very soluble extract makes a bright, sparkling, smooth-flavored Ginger Ale, which is as brilliant as a diamond, clear as crystal, and pure as spring water. We fully warrant its superior quality, its uniform excellence, and remarkable strength.





4 ounces to the gallon. \$5.00 a gallon.

Don't Take Our Word

but send to-day for *free sample* and determine for yourself the supreme quality of these superlative goods. If you prefer to send trial order, which is often most satisfactory,

We Will Return Money

if the goods do not prove satisfactory to you in every respect.

 No charge for Packages. 
 Send for Bottler's Price-List. 

McKey & Co.,



Boston, Mass.

L. Seebach, Fullarton, Ont., will build a flax mill in the spring. The hosiery mill at Kingston, Ont., is being enlarged, Mr. J. Hewton is manager.

The Pine & Hardwood Co., Toronto, have been incorporated with a capital stock of \$40,000, to manufacture lumber, etc.

The Raymond Manufacturing Co., Gueph, Ont., have been incorporated with a capital stock of \$130,000, to manufacture sewing machines, bicycles, bicycle supplies, cash registers, etc.

The West Coast Packing Co., Vancouver, B.C., are applying for incorporation with a capital stock of \$30,000, to preserve meat, fish, fruits, vegetables, etc.

The Fraser River Fish Curing Co., Vancouver, B.C., are applying for incorporation with a capital stock of £100,000, to engage in the business of packing fish, etc.

The Queen Charlotte Oil Co., Victoria, B.C., are applying for incorporation with a capital stock of \$14,000, to manufacture, fish oil, etc.

The King-Jones Company, Toronto, have been incorporated with a capital stock of \$50,000, to acquire the businesses now carried on at that place under the firm-names respectively of The King Manufacturing Co. and Jones & Co., and to manufacture specialties, etc.

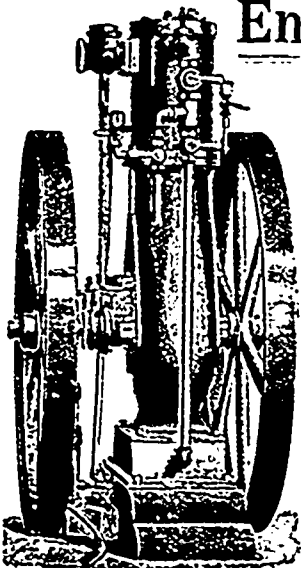
Messrs. Parke, Davis & Co., who are proprietors of one of the largest laboratories in the United States for the manufacture of pharmaceutical preparations, at Detroit, and who have a branch laboratory at Walkerville, Ont., have sent us a copy of Pharmaceutical Notes published by them, and which contains some interesting information regarding important additions recently made to their Canadian works. They say: Thanks to the favor and patronage of the Dominion Trade, our facilities for manufacture have for some time past proved unequal to the steady, gratifying increase in the demands upon our Walkerville laboratory. Under the pleasant constraint of enlarging our premises, we have accordingly, purchased from the Walkerville Building and Land Co. two and a quarter acres of land adjoining our present site, and shall forthwith erect thereon a large annex, comprising four floors, each 60x100 feet. Of this floor space 5,000 square feet will be reserved for the

manufacture of the wonderful digestive agent, Taka-Diastase. Our shipping facilities will be improved by the construction of a spur from the Grand Trunk tracks to our doors. We seize the opportunity to invite most cordially the pharmacists of the Dominion to visit us and inspect our various departments. Every operation is open to the pharmaceutical and medical public; we have no closed doors, and we promise a warm welcome to any friend in the trade desirous of beholding the complete equipment of a modern laboratory. The history of the Walkerville establishment dates back only to 1887, when we first began to manufacture in a modest building, with a mere handful of employes. Rapid growth of trade soon rendered indispensable increased facilities, and these were provided by the new structure which we occupied in 1890. Since then our business has grown apace; at present nine representatives patrol the Dominion in our interests; and the completion of the proposed annex will see our manufacturing staff enlarged to 25 employes.

A correspondent of The Paper Mill who was present at the event of which he writes, says: At 5 o'clock on the evening of November 21st, water was turned upon the wheels of the first set of four grinders in the mill of the Sault Ste. Marie Pulp and Paper Co. I had the pleasure of watching the operation with Mr. Clergue. As the great gearing began to turn, first slowly and then with quickening speed, the prevailing suspense disappeared, and we turned to one another with congratulations. Remark was made that the machinery ran with the smoothness of a watch. Before the present week has expired, the entire set of twenty-four grinders will be in operation, turning out one hundred tons per day of dry pulp. In every direction there is evidence of some great undertaking approaching completion. What the winter will bring forth can be readily realized, but what the coming years will show for the Soo, as a great paper-making centre, can only be imagined. The fact remains in my judgment, that both for the export and domestic trade, the right parties have found the right place to produce both pulp and paper.

The employees of the Waterous Engine Works Company, Brantford, Ont., will erect a memorial window in the offices of the new works in that city in the memory of the late Mr. C. H. Waterous, the founder of the firm. The contract has been let to Messrs. Lyons & Co. of Toronto.

THE ELECTRICAL GAS OR GASOLINE...
Engine



WRITE FOR PRICES AND TESTIMONIALS

J. R. BAIRD

WOODSTOCK, - - - - - ONTARIO

Firstbrook Bros.

Dovetail and Packing Boxes

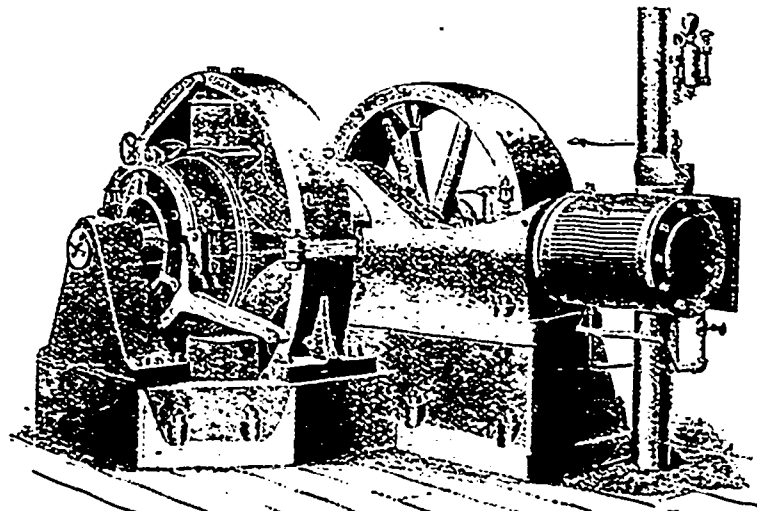
Top-Pins, Side Blocks and Cross Arms. Wood Printers, Etc. Cigar Boxes. Shipping Cases.

TORONTO, Write for Prices. ONTARIO.

ROBB-ARMSTRONG ENGINES.

Simple, Tandem and Cross Compound.

Correct Design



Superior Workmanship

We highly recommend the Robb-Armstrong Engine for direct connection to Dynamo.

Robb Engineering Company (Ltd.)

AMHERST, N.S.

AGENTS-- Canada Machinery Agency, 321 St. James Street, Montreal
William McKay, Seaforth, Ont., Traveller.

A concern in which Messrs. C. B. Powell and J. A. Soybold are interested propose starting a metal button factory in Ottawa.

Fire in the car factory of Messrs. Patterson & Corbin, St. Catharines, Ont., on December 20th did damage to the extent of about \$12,000.

The Niagara Falls Metal Co., Niagara Falls, Ont., recently organized, will erect a factory 120x40, with two wings, 40x40 and 120x40 respectively.

The Laurentine Paper Co, will erect a large mill on the St. Maurice River, Que.

G. McKenzie, Wingham, Ont., offers a free site to anyone who will erect a flax mill in that place, to be equal in capacity to the mills in Brussels, Ont.

The Manitoba Plumbing Co.'s premises at Winnipeg, Man., were recently destroyed by fire. Loss about \$3,000.

The premises of Williams & Hilton, spice mills, Winnipeg, Man., were damaged by fire Dec. 19th to the extent of about \$1,000.

Muir & Co., Gladstone, Man., will build an elevator at Neepawa, Man.

The Wanderer Cycle Co., Toronto, have been incorporated with a capital stock of \$45,000 to manufacture bicycles, bicycle supplies, etc.

The Peterboro Light & Power Co., Peterboro, Ont., have ordered a 180 S.K C. generator from the Royal Electric Light Co., Montreal, to take the place of a Canada General Electric Co. machine, which was installed last October. Pending the delivery of the above machine the Peterboro Light & Power Co. have installed a 1,500 light machine of the Royal Electric Co.'s make.

A big mining deal has recently been concluded by a number of prominent mining men of Toronto. Messrs. J. W. McRae, Hector McRae, Geo. P. Brophy, John Brophy and S. H. Fleming have purchased what is claimed to be a valuable plumbago property, paying therefor the sum of about \$30,000. The property is located about eight miles from Calabogie, and about thirteen miles from Renfrew. It is on the farm of Thomas Moore, on the south shore of Norway lake, about two miles distant from the

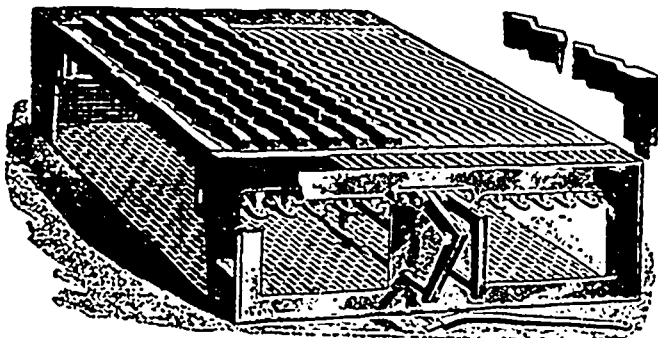
Kingston and Pembroke Railway. It was formerly owned by Senator McKindsey. The new owners believe they have a valuable deposit of plumbago, and are making arrangements to begin operations early next spring. They intend shipping direct to the English markets.

Mr. James Hastie, jr., writing from Dromore, N.W.T., of the Rainy River District, says. The district is being settled by a hardy and industrious class of people, who are generally enthusiastic in their praise of its capabilities, but they, one and all, unite in saying the great pressing present want of the settlers is a flour mill. They say they have to get their supplies of flour from Rat Portage, 160 miles distant. The steamboats, which run almost daily in summer, will deliver flour and other supplies at any farmer's dock, but this flour has to be paid for in hard cash, a commodity not always plentiful with settlers in a new country. They can grow wheat equal to No. 1 hard, and would do so extensively if it could be manufactured in the district. The flour imported into that portion of the district which could be supplied by a flour mill, as to distance, I was told, was from 10,000 to 15,000 sacks per year. Here is an opening for some enterprising miller.

It is said that Messrs. McGregor, Gourlay & Co., manufacturers of wood-working machinery, etc., Galt, Ont., contemplate removing their works to Hamilton, Ont. The Spectator says: The firm is an old-established concern doing a large trade, and employs 250 hands, and if the Wanzer factory can be secured on terms suitable to them it is proposed to move the business to Hamilton. "We are not bonus-hunters," Mr. Gourlay explained, "but the premises occupied in Galt are unsuitable, and we will have to build or remove to some suitable premises in this or some other place. It does not matter to us where we are located as long as there are railway facilities, as our trade extends over the whole Dominion and is not sufficient in any one locality to make it an object for us to be located there. We recognize that the cost of living is greater here and we will have to pay our men more, which will mean more, which will mean an increase of about \$5,000 a year in our expenditure, but we use the output of the rolling mills here and will also use the iron to be manufactured by the smelting works, and the saving of freight will, we think, offset the extra expenditure in wages."

THE VOLCANIC PATENT SHAKING GRATE

MANUFACTURED BY THE GURNEY FOUNDRY CO., Ltd., Toronto.



TORONTO, June 17th, 1895.

THE GURNEY FOUNDRY CO., Ltd., Toronto.

GENTLEMEN.—With reference to the Volcanic Patent Shaking Grates—I am glad to say that I am well satisfied with the working of the grates and am convinced there is a very considerable saving of fuel by their use.

Since putting in the "Volcanic" we have no clinkers at all, and use common uncleaned slack coal. We only clean out the fire once a week. When shutting down at night, the dampers are closed to shut off the fire and the next morning a few shavings thrown on top with a little fresh coal, is all that is needed to start the fire. This alone adds materially to economy in coal consumption.

My first impression that it was a first-class device and the best I had ever seen has been fully confirmed by the work the bars have done. I have no hesitation in recommending them as the best grate bars I have seen or used since I first entered the engine business eight years since.

F. W. BARRITT.

Late of the Polson Iron Works Co.

THE GURNEY FOUNDRY CO., Ltd., TORONTO.

DOMINION BRIDGE CO.

(LIMITED).

MONTREAL AND LACHINE LOCKS, P.Q.

Steel Bridges for Railways and Highways,
Steel Piers and Frestles, Steel
Water Towers and Tanks, Steel
Roofs, Girders, Beams, Columns,
for Buildings.

A Large Stock of....

ROLLED STEEL BEAMS, JOISTS, GIRDERS
CHANNELS, ANGLES, TIES, Z BARS
AND PLATES ALWAYS ON HAND

IN LENGTHS TO THIRTY-FIVE FEET

Tables, giving Sizes and Strength of Rolled Beams
on application.

Post Office Address, - - MONTREAL

J. H. MCGREGOR, Agent, Canada Life Building
TORONTO, ONT.

H. E. Faurdeau & Co's factory at Quebec, Quo, was recently destroyed by fire. Loss about \$10,000.

The Walkerton Chair Mfg. Co., Walkerton, Ont., are applying for incorporation with a capital stock of \$10,000 to manufacture chairs, furniture, etc.

The Empress Gold Mining Company of Ontario, Fort Williams, Ont., are applying for incorporation with a capital stock of \$100,000 to carry on the business of mining, smelting, etc.

Adelard McNeill has just put into operation a water power saw mill at Murray Bay, Que.

Messrs. Cimon & Co., of Murray Bay, Que., are filling a large order of white birch spoolwood for a thread manufacturing firm in Paisley, Scotland.

The new France Milling Company will build an electric railway at Digby, N.S.

William Lee, Pavillion, B.C., will start a saw mill.

The ratepayers of Meaford, Ont., will vote on the 6th proximo on a proposition to pay \$6,000 on waterworks extensions.

Alex. Bouchard, St. Julie, Que., will erect a saw mill at that place.

The City Council of St. Catharines, Ont., are considering the advisability of establishing an electric light plant of their own for city lighting.

Messrs. F. & F. Chadbourn have just erected and put in operation a saw mill, principally for the manufacture of birch lumber, at North Bay, Ont.

A company is about being organized to take over the patents covering the Hatch Storage Battery for the Dominion of Canada, and to erect works for manufacturing the same at some point in Canada not yet decided upon.

Mr. Crandall Prescott, New Mills, N.B., will erect a saw mill with a 30,000 ft. capacity at that place.

The Canada and Michigan Bridge & Tunnel Company will apply to Parliament at its next session for authority to erect a high level bridge over the Detroit River at Windsor, Ont.

R. Duffus, Thamesville, Ont., is building an addition to his mill.

D. Allsport & Co. will start a large knitting mill at Joliette, Que., to employ not less than fifty hands. They will put in cards and spinning machinery.

The Paul Frind Woollen Machinery Co., Toronto, have secured the entire control of the Canadian market for the wool business of Messrs. Frances Willey & Co., Bradford, Eng. They have just imported \$10,000 worth of foreign wools for January delivery.

The Algoma Copper Mining Co., Thessalon, Ont., are applying for incorporation with a capital stock of \$1,000,000 to engage in the business of mining, etc.

Mr. Geo. A. Rudd is removing his harness and carriage top factory from Brockville, Ont., to Toronto.

Messrs. Livingston Bros., Baden, Ont., manufacturers of linseed oil, are building an oil tank capable of containing 80,000 gallons.

FOR SALE

The Parkhill Veneer Co.

Manufacturers of

ROTARY CUT CHEESE BOX HOOPS

CHEESE BOX HEADING. SCALE BOARDS

THE BEST EQUIPPED MILL IN CANADA

The present proprietor wishes to sell this fine property, as he has other business which demands his whole attention.

A FULL STOCK OF VENEERS ON HAND

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Kay Electric Manufacturing Co.

255 James St. N., Hamilton, Ont.

Makers of.....

ELECTRIC MOTORS

Transformers

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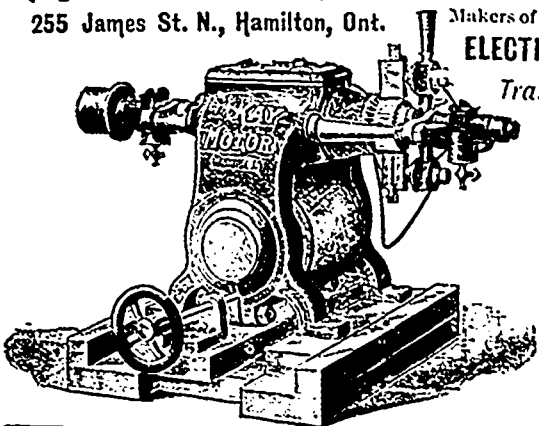
PLATING

MACHINES

ETC.



Please let us know your requirements. Write for latest prices and testimonials.



F. LEADBEATER

Manufacturer of the

LEADBEATER

IMPROVED

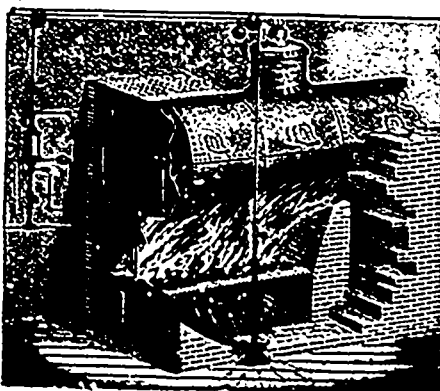
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OR AIR FEEDING DEVICE

For burning hard coal and coke, screenings, soft lark, sawdust, tan bark,inders, etc.

141 24th Street
Detroit, Mich.

In ordering this device be sure to give diameter and length of boiler.



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List of the Manufacturers of Canada.

The Buyers' and Sellers' Guide of Canada

1895-96, CONTAINS:

1st A list of such articles as are manufactured in Canada under 4,000 sub-headings, under which are 3,000 manufacturers of over 10,000 different articles.

2nd—A list of Grain Merchants of the Province of Ontario and Manitoba who are classified as in the article list under sub-headings of the kind of grain that is shipped from their locality.

3rd—A list of Flour and Feed Merchants of the Province of Quebec and the Maritime Provinces who handle in car lots or larger quantities.

4th A list of the Hardware Merchants throughout the Dominion who handle hardware goods only.

5th A GENERAL LIST, alphabetically arranged for addressing purposes, comprising Saw, Lath and Shingle Mills, Heading and Stave Factories which cut from the log.

A list of Planing Mills, Sash, Door and Blind Factories, Furniture, Piano and Organ Factories, etc., which manufacture from lumber.

A list of Grist Flour, Chop, Corn Meal and Oat Meal Mills, etc., which grind grain.

A list of manufacturing Machinists, which includes all metal workers using steam power. A total of over 7,000 addresses.

Address ..

PRICE \$5.00 PREPAID DELIVERY.

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LAURIE ENGINE CO.,

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ENGINEERS AND CONTRACTORS

COMPLETE MOTIVE PLANTS, ETC.

IMPROVED Corliss Engines

High Pressure, Condensing and Compound
FEED-WATER HEATERS and PURIFIERS

Heavy Fly Wheels a Specialty.

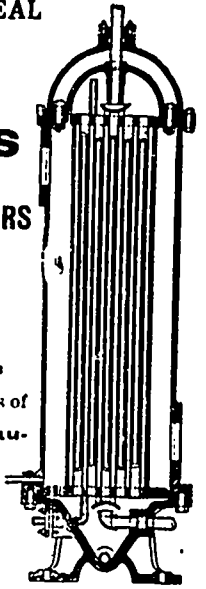
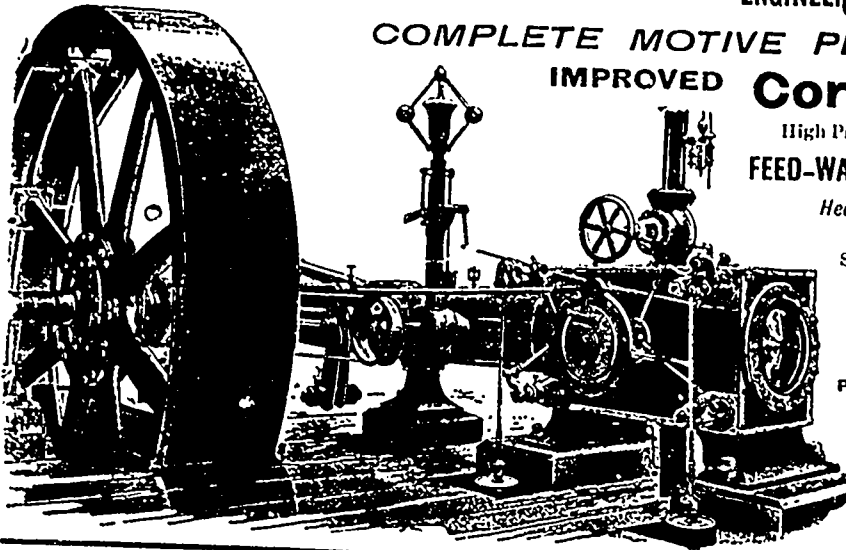
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HOLLY GRAVITY RETURN SYSTEM



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FOR ANY KIND
OF MACHINERY?

We call Special Attention to the following:

- Upright Engine 6 h.p. and Boiler 8 h.p.
- 1 Horizontal Engine 8 1/2 x 16.
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- 1 National Heater, No. 4.
- 1 Rope Drive, Transmits 20 h.p.
- Iron and Wood Pulleys, New and Old.
- Shafting, Hangers and Belting, All Sizes

Full assortment of Iron and Wood Working Machinery always on hand.

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Suitable for light manufacturing, ground floor and story above, 50x90 feet each, with high ceilings, in solid brick building; good cellars, city water and sewer connection; access to building from both front and rear.

Electric power can be bought very cheaply, and exemption from taxes obtained. Building on Ontario St., St. Catharines, Ont.

For further particulars apply to
JOHN G. MOORE,
St. Catharines, Ont.

Welland Vale Manufacturing Co.

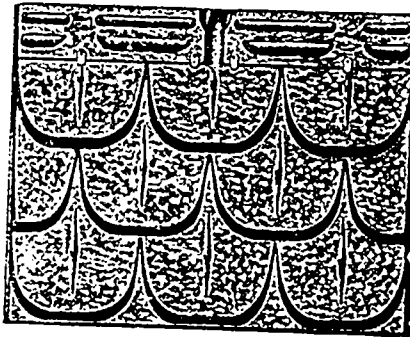
LOCK No. 2, ST. CATHARINES, ONT.

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AXES, SCYTHES, FORKS, HOES
RAKES and EDGED TOOLS

METAL ROOFING

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Guaranteed to be Water, Wind, Storm, Fire and Lightning Proof.

THE PEDLAR METAL ROOFING CO.

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In answering please mention this paper.

Steam Traps

Pipe Machines

Buffing and Polishing Lathes
Strapping Machines
Shafting Hangers

G. T. Pendrith

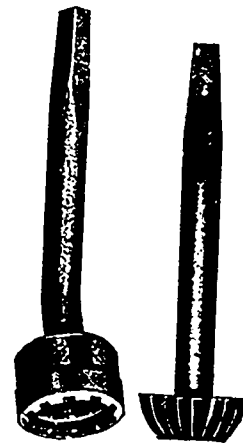
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BALL CHECK VALVES.
BALL GLOBE VALVES.
BLOW-OFF VALVES FOR
BOILERS A SPECIALTY
OIL AND SALT WELL SUPPLIES.

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Manufacturer of
Refacers for Globe Valves



Jenkins'
Valves
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Water
Taps

Valve Refacer. Seat Refacer.
Perfectly True Brass Balls

For all purposes—Hollow or Solid.

PETROLEA, ONT.

FOSTER MACHINE CO.

Foster 1894

Eighteen Ninety Four.

18-90-4

Cone Winder.

WESTFIELD, MASS.

Geo. Cassidy & Co.'s lumber mills and Spicer's mill at Vancouver, B.C., were destroyed by fire Dec. 24th. Loss about \$50,000.

M. Durham, Grimsby, Ont., is building a box and basket factory.

The Westinghouse Brake Company has been offered a free site, with water power, to induce it to locate the proposed factory in Ottawa.

The flour mill at Perth, Ont., belonging to Hon. J. G. Haggart, is to be improved and its capacity increased to seventy-five barrels a day.

Mr. F. H. Crowells, Dunkin, Que., is erecting a bobbin factory at that place.

John Newton's saw mill at Lachute, Que., was recently destroyed by fire. Loss about \$2,500.

The Goderich Knitting Co., Goderich, Ont., have been incorporated with a capital stock of \$20,000 to manufacture knitted goods, etc.

The Millbrook Electric Light Co., Millbrook, Ont., have been incorporated with a capital stock of \$6,500, to acquire the plant and business of the Millbrook Electric Light Co., and to supply light, heat and power to that town.

The John Ritchie Plumbing and Heating Co., Toronto, have been incorporated with a capital stock of \$75,000 to acquire the business now carried on by John Ritchie, and to manufacture gas fixtures, etc.

W. Hunter, Belleville, Ont., has located a fine vein of mica near Lake Michinog.

The vinegar works operated by S. Allen at Norwich, Ont., were destroyed by fire Dec. 21st. Loss about \$30,000.

The works of the Dominion Blanket and Fibre Co., Beauharnois, Que., have been purchased by Messrs. E. A. Small & Co. Mr. Small is forming a joint stock company to run the mills under the name of Dominion Woollen Mfg. Co. The Paul Frind Woollen Machinery Co., Toronto, have shipped them a quantity of machinery and have orders for more to be shipped at an early day.

Geo. F. Evans, of the Westinghouse Brake Company, has written C. R. Smith that the company is well pleased with the liberal offer of the city. He will be here on Jan. 11th or 12th, when he will be able to speak more definitely regarding the intentions of the company.

Mr. Wm. Stuckey, proprietor of the Grand Valley, Ont., planing mills, informs us that he is about building a saw mill at Keldon, near Grand Valley, which he expects to have ready for work early in the spring. He will make a specialty of cutting soft elm, maple and birch lumber.

The Metallic Roofing Company's new factory at the intersection of King and Dufferin streets, Toronto, is rapidly approaching completion, and will be one of the finest and best arranged for the purpose in the city.

Are You Interested . . .

In an Invention of exceptional Merit! If so investigate this advertisement. I want responsible parties to manufacture in Canada my

Hydraulic Washboard . .

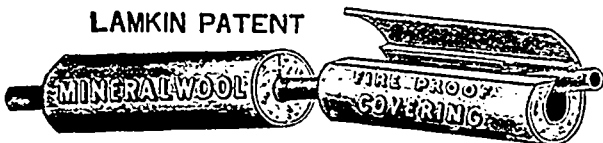
Which keeps a constant stream of suds-water on the garment while being rubbed on the washboard. This invention has proven to be

A Success of Successes

Parties wishing to manufacture on royalty, or wishing to buy my Canadian patent, should write for particulars and terms. Address

LEWIS PETERSON, Madrid, Iowa, U.S.A.

LAMKIN PATENT



BY THE USE OF - - Mineral Wool Covering

For Steam Pipes, Boilers, etc.,

A Large Saving in Fuel is made.

Radiation and Condensation Prevented.

Steam Carried Long Distances Without Loss of Power.

We manufacture our own Mineral Wool and can put you on the ground floor in regard to prices. Beware of imitations and infringements.

CANADIAN MINERAL WOOL CO.,

Telephone 2376. 24 SCOTT ST., TORONTO.

Ferroline - -

The best material for coating structural iron work or iron machinery.

The only sure preventive of rust.

Has the highest recommendations.

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31 COMMON STREET, - MONTREAL.

Canadian Rubber Co., ^{OF} MONTREAL.

A. ALLAN, President. F. SCHOLLES, Managing Director. J. O. GRAVEL, Secretary-Treasurer.

CAPITAL, \$2,000,000.

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Manufacturers of Superior Quality

Rubber Belting

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"Extra Star," "Fine Para"

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"Forsyth Patent" Seamless

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All kinds of **Rubber Hose**

Made with our Patent Process Seamless Tube, including

Engine Hose, Hydrant Hose, Conducting Hose, Steam Hose, Suction Hose Galvanized Wire, Suction Hose Galvanized Smooth Bored Suction Hose Hard Rubber, Rubber Valves, Gaskets, Packings, etc.

WESTERN BRANCH:

Cor. Front and Yonge Sts., TORONTO

:-: **J. H. WALKER, Manager.**

The Toronto Radiator Manufacturing Co., will introduce a new system of foundry practise in their works, which will entail an outlay of about \$75,000 for new buildings and plant. They expect it to be in operation in the spring. Whilst talking to Mr. John M. Taylor, the manager, we saw a foreign order opened which represented three carloads of Salford radiators, for the European market. The correspondent said in this letter that he thought these might last him about two months. Evidently they are doing a large business in Europe.

The Dodge Wood Split Pulley Co., Toronto, have the following to say regarding the friction clutch pulleys manufactured by them: Most of our well-arranged factories and mills are fast recognizing the advantages of the friction clutch pulley. We quite often read accounts of fatal or serious accidents to employes while throwing on belts. The friction clutch pulley at once and for all time does away with any such possibility. It saves your belting, saves wear and tear of machinery; it economises space, and is in many respects a great convenience, where stopping and starting machinery is a necessity. Heretofore the cost of a good friction clutch has stood in the way of its coming more into general use, but now

the Dodge Wood Split Pulley Company of Toronto, who are leaders in the power transmission line, have placed their patent split friction clutch pulley and cut off coupling on the market at prices which seem to be somewhere near right, judging from the sales. The principal feature of the Dodge clutch is that it is split or separable like the Dodge pulley, so that little or no expense is attached to putting it on the shafting. Great economy of space on shafting is secured; all parts are interchangeable; they are easily adjusted, perfect balance, positive friction, simplicity, detachable sleeve, and low first cost, all of which go to make our clutch worth looking into. Furthermore, we are in a position to deliver any size friction clutch pulley or clutch coupling in from two to four days after receipt of order. Our references are such reliable firms as E. B. Eddy Co., Hull; Rathbun Co., Deseronto; Massey-Harris Co., Toronto; John Taylor & Co., Toronto, and hundreds of others. Look around your factory and see if you cannot prevent accident and obtain greater convenience, and at the same time save some money by adopting a friction clutch, then communicate with us. We will wait on you promptly. Dodge Wood Split Pulley Co., 63 King Street West, Toronto.

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Half Tones Made Direct from Photos

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Electric Railways and Electric Light Construction Superintended.

18 IMPERIAL LOAN BUILDING TORONTO



HAMILTON, CAN.

Catalogue on Application.

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A Dynamo or Motor

Which will not burn out, anyone can operate, occupy but little space, is exceedingly economical, has superior mechanical features, has the highest commercial efficiency, will cost you nothing for repairs for one year

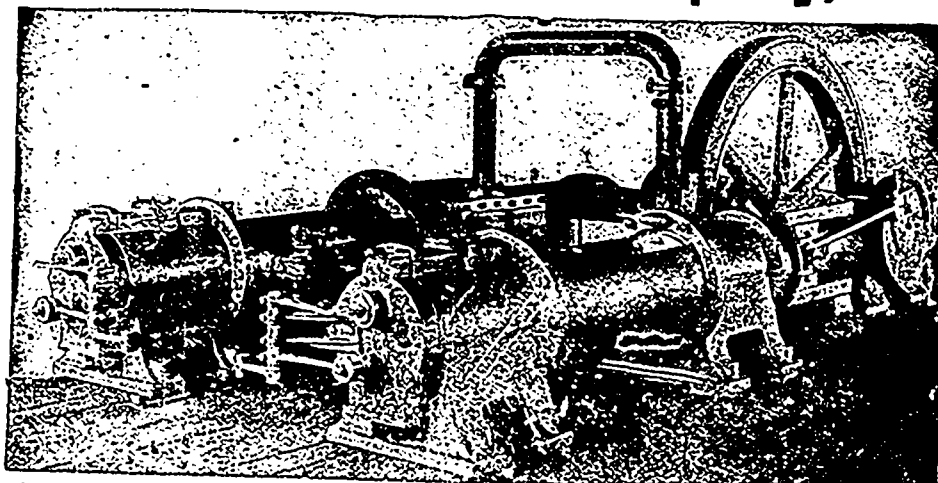
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If you want a LAMP, at once simple, reliable, insulated, noiseless and pleasing, and which gives a steady, sure, white light, which, moreover, is cheap both to buy and to operate, Buy "THE EASTON" Lamp

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Straight-Line and Duplex Air Compressors.



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Duplex 12" x 18" Compound Condensing Steam Air Compressor, WITH HALSEY'S PATENT POSITIVE MOTION AIR VALVES

We furnish a line of Belt and Steam-actuated Compressors for mechanical purposes in connection with manufacturing plants for compressing gases and for use in chemical works, breweries, and other establishments where large bodies of liquids are to be moved.

Branches—16 Victoria Sq., MONTREAL, 129 Hollis St., HALIFAX, N.S., 632 Cordovia St., VICTORIA, B.C

CANADIAN PATENTS.

The following patents have been issued from the Canadian Patent Office, from October 14 to October 14, 1895.

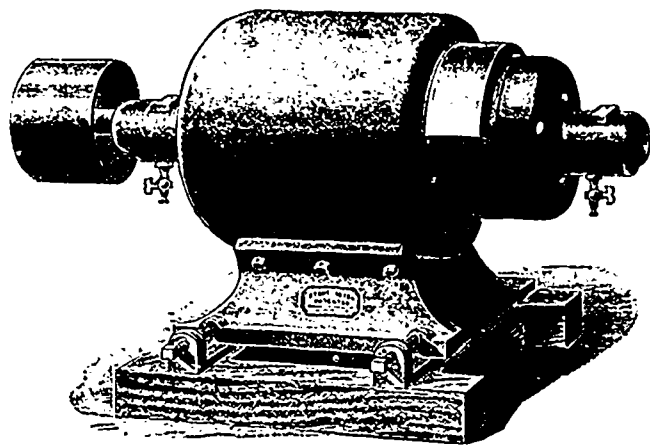
Information regarding any of these patents made be had on application as follows:—

Fetherstonhaugh & Co., Bank of Commerce Building, Toronto.
 Ridout & Maybee, 103 Bay Street, Toronto.
 C. H. Riches, Canada Life Building Toronto.
 A. Harvey, Central Chambers, Ottawa.

Copies of American patents can be procured from either of these attorneys for the sum of twenty-five cents each.

- 50,264 Candle holder, Richard Koss, Sasnitz, Prussia.
- 50,265 Fruit huller, Freeman A. Walker, Boston, Mass., assignee of John A. Murray, Winchester, Mass.

- 50,266 Rotary engine, August W. R. Berr and Thomas Laidlaw, San Jose, Cal.
- 50,267 Grain cleaner and separator, Edgar L. Fixler, Anson H. Williams, both of Delta, O., and Horace Tredway, Metamora, O.
- 50,268 Barrel valve, Herman Strater, Boston, Mass.
- 50,269 Machine for forging spikes and other metal products, John S. Pessenger, Brooklyn, N.Y.
- 50,270 Faucet, Frank H. Burrill, Concord, Mass.
- 50,271 Dress chart or rule, William J. Marshall, Toronto.
- 50,272 Device for conducting air to the flames of gas, petroleum, etc., August H. J. Schulke, Berlin, Germany.
- 50,273 Vessel steering apparatus, John Bonner, Tilburon, Cal.
- 50,274 Cigarette machine, Bernhard Baron, New York, N.Y.
- 50,275 Cigarette machine, Bernhard Baron, New York, N.Y.
- 50,276 Submarine signalling system, Lucien I. Blake, Lawrence, Kan.



The STOREY STEEL MOTOR and DYNAMO

Manufactured by

The Storey Motor and Tool Co.

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The Storey, while it rivals every other direct current motor made anywhere, has no competitor for direct driving and special purposes where the joined in features, efficiency, sparklessness, speed, size and weight, are taken into consideration.

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GUARANTEED 53 DEGREES

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This is not a mixture, but a new product for which patents have been granted in U.S.A., Great Britain, Canada, Germany, France and Austria, and use in these countries has increased constantly since its introduction.

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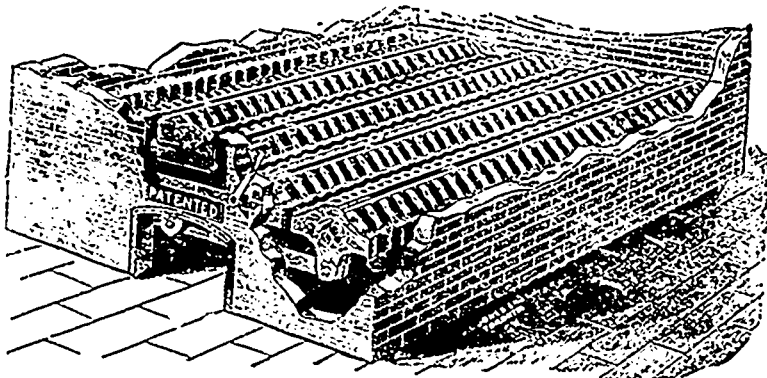
BRANCH HOUSES—BOSTON, PROVIDENCE, PHILADELPHIA, MONTREAL.

- 50,277 Fruit knife, William S. Cooper, Newport, R.I.
 50,278 Trunk strap, Louis Phelan, San Francisco, Cal.
 50,279 Furnace grate, James L. White, West Superior, Wis.
 50,280 Cleaning device for kid gloves, Charles J. Bailey, Boston, Mass.
 50,281 Machine for stamping letters, etc., Winfield L. Dinsmoor, Portland, Oregon.
 50,282 Photographic apparatus, Gustav Franke, M.D., Berlin, Prussia.
 50,283 Water tank, Cornelius Theobald, Plainwell, Mich.
 50,284 Railroad lifting jack, James A. Holman, Salida, Col.
 50,285 Railway car, Gustav C. Kuhlman, Cleveland, O.
 50,286 Axle setting machine, Alexander N. Cameron, Perth, Ont., and William C. Buck, Peterboro, Ont.
 50,287 Drawing table for detail work, The Laughlin-Hough Drawing Table Co., assignee of Samuel J. Laughlin and James Hough, Guelph, Ont.
 50,288 Top roll for textile machines, Robert G. Campbell, Salisbury, North Carolina.
 50,289 Post hole auger, Jacob A. Smith, assignee of Franklin W. Mosure, both of Vera Cruz, Ind., and Isaac Warner, Linn Grove, Ind.
 50,290 Safety plate for railway ties, Elmer D. Garner and William H. Garner, America City, Kan.
 50,291 Apparatus for utilizing the waste heat of furnace gases, James Patterson, Gourock, Scotland, and James Ramsay Sandilands, Glasgow, Scotland.
 50,292 System of transmitting rotary motion, Arthur Duffek and Adolph Merrel, Prague, Bohemia.
 50,293 Ice creeper, Adchard E. Charron, Montreal, and Louis Charron, Ottawa.
 50,294 Hot air flue, William H. Brinker, Pittsburg, Pa.
 50,295 Snap hook, William H. Smith, Dresden, Ont.
 50,296 Cleaner for steam boiler furnaces, Isaac C. Gray, Hion, Ind.
 50,297 Sash cord catch, John Wheatley, Hamilton, Ont.
 50,298 Gate, Ralph E. Alfred, Weston, W. Va.
 50,299 Process of and apparatus for the treatment of milk, bouillon, etc., Emil Hilberg, Essen, Prussia.
 50,300 Carriage top, Daniel Conboy, Toronto.
 50,301 Heating drum, Thomas H. Wilson and Robert Humphrey, Logansport, Ind.
 50,302 Doubling acting force pump, Vincent Mesmer, Walkerton, Ont.
 50,303 Indicator door bolt, William S. Burgess, Three Rivers, Que.
 50,304 Driving mechanism for bicycles, Arthur Dubreuil, Montreal.
 50,305 Invalid bed attachment, George H. Gove, Medina, O.
 50,306 Heating and ventilation system, William Bruce, Leeds, York, Eng.
 50,307 Corn harvester and binder, Rinhard Prochl, Mapleton, Minn.
 50,308 Wagon running gear, Thos. Grimmit, Rockford, Ill.
 50,309 Spring bed bottom, Thos. A. Stoll, Trenton, N.J.
 50,310 Skid, Theodore W. Sessinghams, St. Louis, Mo.
 50,311 Apparatus for giving motion to station indicators on railway carriages, William E. Hubbard London, Eng., and Charles E. Vernon, Essex, Eng.
 50,312 Art of and means for reproducing the working edges of agricultural or other implements, Chas. La Dow, Albany, N.Y.
 50,313 Art of and machinery for dressing stone, Jas. S. MacCoy, New York, assignee of Geo. H. Williams of the same place, and Frank H. Marsh, Newark, N.J.
 50,314 Electric railway switch, Isaac N. Saddler and Eugene D. Winfield, Perrysburg.

The representative of a British house would like manufacturers of the following lines in Canada to communicate with him at once.

HAY FORKS, ETC.
ALL KINDS OF HAYING IMPLEMENTS
WHEELBARROWS,
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 Address "ALPHA," Canadian Manufacturer.

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From the Sincennes-McNaughten Line, Montreal.

We are thoroughly satisfied with the Heeson Grates, having two of our steamers, viz., *Hudson* and *Silver Spray*, fitted with same, and think they are the best we ever had.

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Will be placed on trial under any boiler in the Dominion for thirty days, at the end of which time, if they are not satisfactory, we will remove them and return the old bars to their place free of expense.

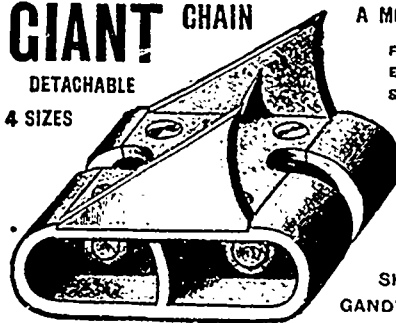
—(c)—

OFFICE : Mail Building, Cor. King and Bay Sts.

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GIANT CHAIN

DETACHABLE
4 SIZES



LOG TOOTH,
ON 600, 1200 AND 1075.

A MOST SATISFACTORY AND DURABLE CHAIN

FOR LOG JACKS, REFUSE CONVEYERS, ETC.,
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POWER TRANSMISSION MACHINERY
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NEW LINK-BELT CATALOGUE

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HAMILTON, ONTARIO.

**Yarn Manufacturers
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Warp Yarns of all descriptions, in Skein, Chain, or on Beams.

Hosiery Yarns in Single or Double; in Cop, Skein or Cone.

Yarns of all kinds for Manufacturers' use.

Twines, Lampwicks, Webbing, Etc.

Dyeing of all colors, including **GENUINE FAST BLACK.**

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Were awarded Gold Medals at the World's Columbian Exhibition, Chicago, for their

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IMPERATRIX" AXMINSTER

CARPETS.

SEVEN QUALITIES OF INGRAINS.

Kensington Art Squares, Axminster Mats, Rugs,
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ESTABLISHED 20 YEARS.

A. KLIPSTIEN & CO.

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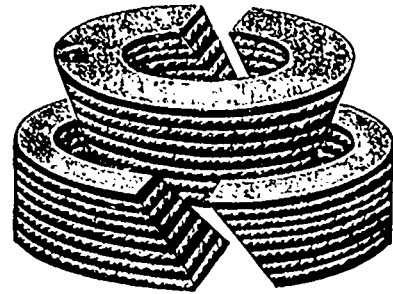
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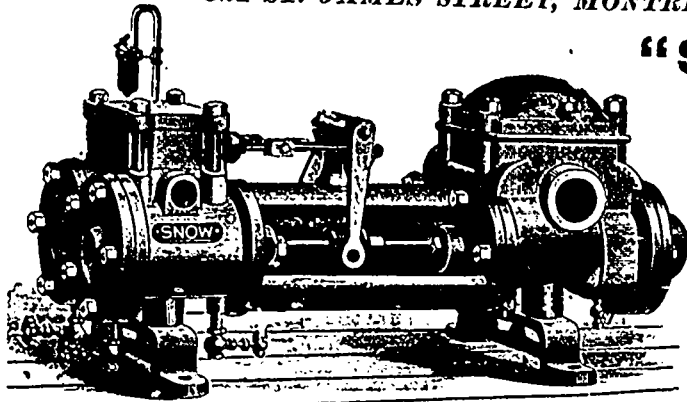
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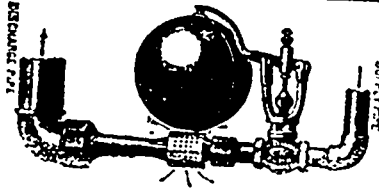
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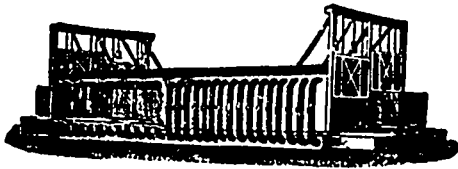
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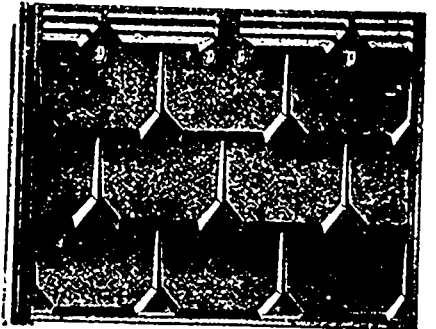
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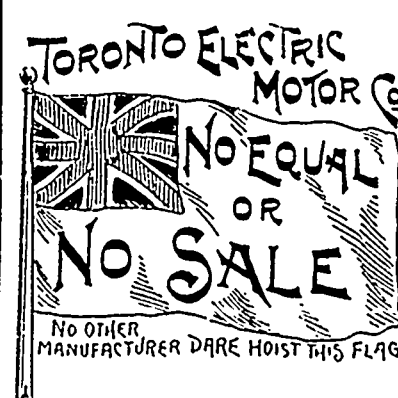
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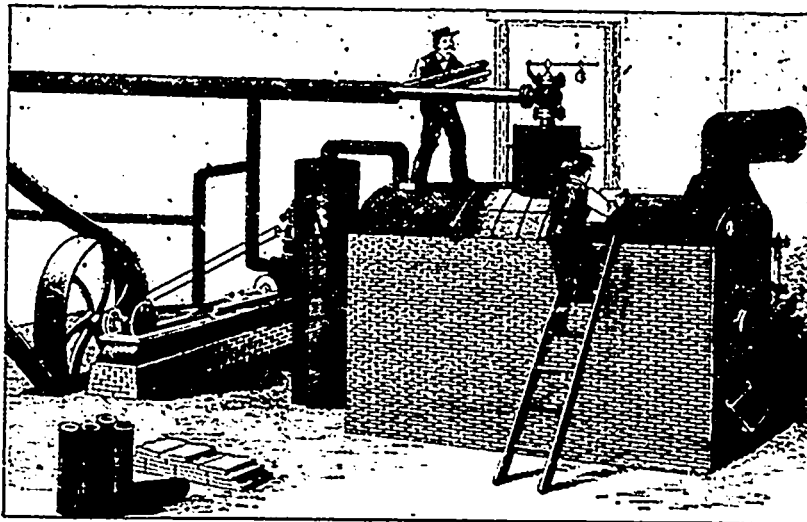
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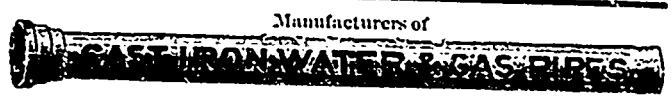


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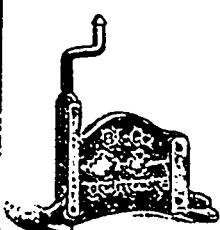
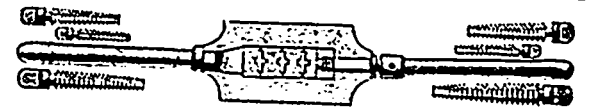
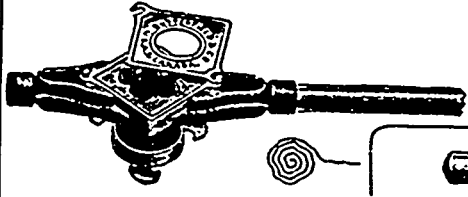
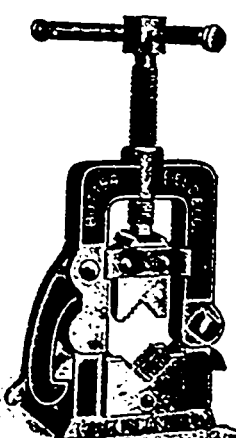
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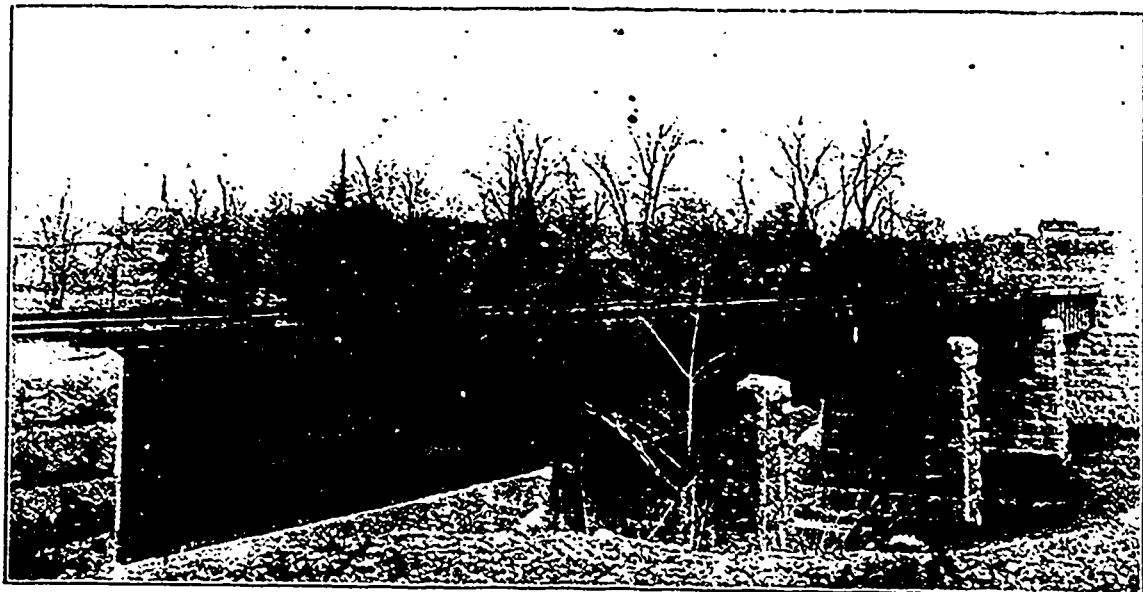
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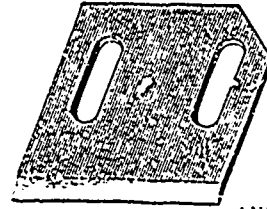
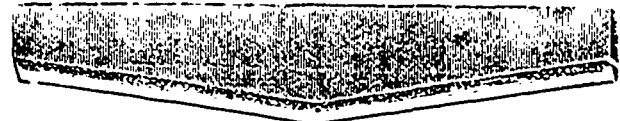


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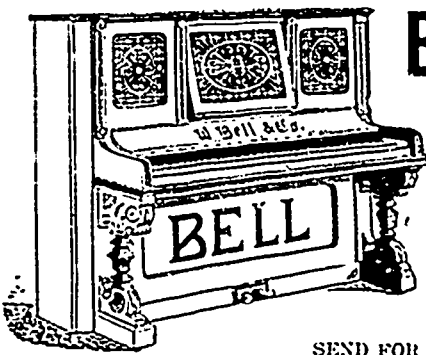
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- To secure by all legitimate means the aid of both Public Opinion and Governmental Policy in favor of the development of home industry and the promotion of Canadian manufacturing enterprises.
- To enable those in all branches of manufacturing enterprises to act in concert, as a united body, whenever action in behalf of any particular industry, or of the whole body, is necessary.
- To maintain Canada for Canadians.
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