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DEVOTED TO HOME INDUSTRIES, COMMERCE, FINANCE, INSURANCE, RAILROADS AND MINING.

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### A WORD TO THOSE INTERESTED

The present is the first number of the Industrial WORLD AND NATIONAL ECONOMIST, a journal the object of which is indicated by its 'ttle, and by this motto "Home Manufactures and a National Policy for Canada" Its great atm II be the development of all the country's resource and the material advancement of the Dominion as nole. With party politics it will have nothing to . ; it will not be an organ either of the Goranme ? or of fin Coposition, but will be thoroughly in sendent .. sat 1. Leaving purely political question to other hards, it will acdress itself to the far more pussing banes connected with the country's progress, commercial and industrial. The endeavor will be made to fill a void now unoccupied, and to direct public attention to the country's national interests, regarding which there should be patriotic unity. It is believed that the question as to the best system for Canada, in the matters of public works and commercial policy, ought to be capable of settlement on a common sense basis, and in such a way as to command general assent. The possibility, nay, the perioct feasibility of bringing the whole people of Canada to agreement on questions of production, transportation and exchange, will be kept in view, and the ground taken that such questions should be as readily settled as the four simple rules of arithmetic. It is not to our credit that we are still disputing whether it would not be a wise plan to withdraw our custom from our own producers and to give it to foreigners. A quarter or half a century hence those who come after us will perhaps wonder how it happened that rational men could ever have thought to make this a great country by sending its wealth abroad to enrich foreign producers, its own producers being meanwhile left without a market. How there could ever have been two opinions on this point will be a standing marvel to the people of the twentieth century; it will be difficult for them to believe that men could be found in Canada the friends of every country but their own. It is not a mark of sdvancing civilization, but-of still remaining barbarism amongst us, for instance, that Canadian iron ore in immense direct to a thousand miles farther off than Ontario, the being that kind which keeps us poor and in debt, quantities is shipped off to feed American furnaces, we being unable ourselves to utilize the mineral treasures which Providence has bestowed upon us. We are unworthy of the gift if we are incapable of be somewhat more of an even case when Manitoba using it, and our incapacity is the more remarkable and the Northwest send flour to compete with Minnefrom the fact that our neighbors can and do use what was given, not to them, but to us. With those ,who are to succeed to our heritage, the wonder will be how such dense stupidity as that of sending millions of money abroad every year for foreign fron, while havfing mountains of iron one at home, could ever have prevailed with practical men. The time is coming when such questions will not be matter of debate, any more than the rules of addition and subtraction, but meanwhile they are in debate amongst us, and the mission of this journal will be to hasten the country towards an agreement on this vital point that production at home is what makes wearth and employment for a people. On religion and politics men will continue to differ, but there should really be no room for them to differ at all as to the duty of a Government to protect the interests of its own people It should not require proving that by protecting home industry we give employment to both capital and labor at home, whereas by buying abroad and letting home industry go to wreck we give both work and wages away to foreigners. The time is drawing near when this reckless surrendering of work and wages to foreigners, instead of keeping them to ourselves, will be looked upon by all sonsible men as what it really that any community laying claim to civilization Pennsylvania, up the Hudron and thence to Oswego. The yarns mentioned free; also on manufactures of week. England, which has been for a year availing

Free Trade, falsely so called. The new journal will at Boston, it has really been emited a long distance. manufactures of lead and copper. In Russia the muster facts to expose the delusion so carefully pro- The Ixpustrial World will endeavor to expose the pagated by Free Traders that their system is gaining false idea that we can deal with a reigners more profitin the world. It will be shown, on the contrary, that, lably than with one another outside of the British Isles, the advance made by Free Trade has been but trifling, that it was the accident of a day, so to speak, while the causes that are compelling civilized nations to adopt Protection are of extensive range, deep scated and permanent in their operation. The ground will be taken that as a country advances in material civilization, it necessarily becomes more Protectionist. It will be maintained not only that as a matter of fact Protection is now every year gaining a firmer hold upon all progressive nations outside of England, but also that this must be so-that no other result is possible. It will be insisted upon that Free Trade is, to young countries especially, an arrester of progress, while through Protection their resources are developed and their progress hastened.

The production of Canada is from the farm, the forest, the sea and the mine, with further employment for many of her people in the business of shipping and transportation. All these different producing interests require protection, and to secure it for them

a first duty of the Covernment. The new journal take its stand on this principle that Ministers e not placed in their high positions to be mere figureheads, but should do everything that can fairly be done to protect home interests. Foreigners may be left to take care of themselves, we may safely trust them to do that. The mischievous doctrine that Government can and should do nothing for trade will be opposed from the start as a delusion and a snare. The due protection of all home interests is National Policy; any policy which neglects one or more of them is not national, but sectional only. Bearing this in mind the Industrial World will strive to be really and truly an exponent of Dominion interests—the advocate of every interest which can possibly be developed in any corner of Canada, from Cape Breton to Vancouver Island. National Policy is for the good of the whole Dominion. For trade with the States we want to substitute trade between the Provinces. It is not a reality, but an illusion, to say, for instance, that the Maritime Provinces can buy American flour cheaper than Canadian. American flour stored in Portland, Boston or New York, is at the time nearer hand to Halifax or St. John than Canadian flour at Toronto or Montreal. But look at the real truth. The American flour, or say nine barrels out of ten of it has actually been carried all the way from Wisconsin. Iowa, Minnesota or Illinois-five hundred or a thousand miles farther off than the Ontario grain fields. If the flour offered in Portland and Boston were the produce of Maine and Massachusetts the argument of nearness might have some force. with Minneapolis-far, very far, to the west. It will sots. But, as both Canada at d the States have flour to export, and as prices are mainly determined across the Atlantic, the idea that American dealers can give Kastern Provinces people cheaper flour than Western Canadian dealers can, is utter nonsense. Coming to another branch of trade, we may ask, for instance, whether boots and shoes are actually retailed any cheaper in Boston than in Montreal. The real truth of the matter is that, except in European goods, prices on both sides of the border, to retail buyers, are very much the same And the idea of any of our people buying anything cheaper from the States than from Canada is an utter delusion, except when it may be a reality for a very brief time through the efforts of our neighbors to kill off our trade by selling at or under

The new journal will take this ground-that the Provinces should trade with each other, rather than with the States. Admitting that there are or ought to be profits in both buying and selling, the policy advocated will be that of both buying and selling to the greatest extent possible in our own country. The coal of Nova Scotia seems placed there by Providence for a return freight westward, to balance in some degree the heavy amount of produce going east. Tak- and common copper and load

A large foreign trade is d simble, and will be advocated by the Industrial World. But this will be maintained throughout, that home production well established is the best basis for foreign trade. It will further be maintained that our largest trade should be with southern countries, with those that differ most from our own. The most profitable trade is that with countries whose productions are most unlike those of our own. The natural course of things is not for the Maritime Provinces to trade with Maine and Massachusetts, but with t'uba and Jamaica. Ontario's trade should not be with the States of Michigan and New York, but with Brazil and Demarars. To the extent that another country's productions resemble those of our own, the profit of trade with that country disappears. Canada being a northern country, tiade with the tropics is what she should strive for We want the raw cotton of Georgia and Alakama, but we do not want the cotton cloths of Massachusetta; we can make just as good and as cheap as these latter for ourselves. We want the cheapest and crudest form of raw sugar that Havana can send us, but we do not want refined sugar from either New York or threenock In a word, it is "trade with the tropics that we want, and everything that will fault promote such trade the World will advocate. Flist and foremost comes our own local trade, amongst curselves, and next comes trade with countries and climates the most different from our own

The need of a special journal to advocate the cause of home production will scarcely be denied by anyone. In the United States almost every important trade has its own special journal, and it is largely through the able and continuous service rendered by these journals that American manufacturing interests have grown strong and able to resist attack. The duties of a special advocate cannot well be performed by the regular political press, for such duties a paper of another class is required. All new and important inventions bearing on the progress of manufacturing will be duly chronicled in the columns of the Works and care will be taken to present accurate reports of tariff and custom house changes in commercial countries; more especially in the British Colonies and the United States of America. For such information, frequently of great value to individuals and firms, the World will be a mine of ready reference. The most accurate information available will be given respecting new and desirable toreign markets and generally speaking, it will be the aim of the conductors to supply in its columns everything that manufecturers may wish to know, or might reasonably expect to find there. The Works will, in brief, be a Canadian manufacturers' paper, wholly devoted to home interests, while seeking also to promote the kind of foreign trade which is profitable, or may be made so. The distinction will be carefully main-But as it is the produce of States from five hun- tained between the two kinds of foreign trade-one argument of nearness is gone. The Halifax buyer of while the other is that by which we make and save American flour is not really trading with Boston, but money. It is believed that such a journal, to fulfil the duties above indicated, is really a pressing want of the time in Canada, and that the undertaking will truly deserve a large, liberal and carnest support

#### THE PRESENT ASPECT OF THE TRADE QUESTION.

While the question of Protection or Free Trade is still debated in our own country, it may be interesting to take a glance at what foreign countries are doing with regard to it. At this very time thece comes fortunately to hand an authoritative statement on the subject, in the form of an Imperial House of Commons return, bearing the recent date of March last, and giving the rates of import duty levied in European countries and the United States, upon the produce and manufactures of the United Kingdom The last return of the kind was made in October, 1876, and therefore the changes of a little more than three years come under review Considerable alterations are noted, and it is stated in the introduction that "the general tendency has been to increase the rates of duty," a notable admission, coming from investigators who must have been anxious to find all the indications that could be found of any progress made by Free Trade in foreign countries. The one exception remarked upon is Holland, which has raised 80 per cent, pure silk goods 28 to 90 per cent, abolished all duties on yarus of dotton, linen, and silk, on leather, and on copper, lead, The ing it to Toronto, it would not really be carried much Dutch are still, however, thrifty enough to retain the small duty of 5 per cent on cloths, while admitting but a recent despatch says that the commercial treaty

could ever have been deluded with the ignis tations of Coal at Oswego looks near, but, like Minnesota flour leather, and all but the cheapest and best-finished duties are now levied in gold instead of paper, an alteration which at the present rates of exchange. would give an increase of about 30 per cent, in the rates. There has been an increase of the duties on locomotives, planos, spirits and leaf tolacco. Otherwise the Russian tariff has been but little disturbed during the resiod under review, but the ominous fact is noted that a proposal for increasing the duties on certain iron manufactures is under consideration, Sweden has raised the duties on sugar, spirits and unmanufactured tobacco; while Norway has, along with other minor alterations, increased the duties on spirits by about 35 per cent., and on tobacco about 59 per cent., and has put a duty on plate glass formerly admitted free.

> The changes in Germany are the most important of all, for they arount to nothing less than the deliberate adoption, by that great Empire, of a thorough system of Protection, instead of the old system of modified Free Trade, which has until lately prevailed. The import duties have been very largely increased, and in the case of yarns a more complicated system of adjusting the rates has also been adopted. On the finer descriptions of cotton yarn the increase has been as much as 100 to 200 per cent., according to kind: on linen yarns, from 50 to 300 per cent. On cotton manufactures the increase in the rate of duties varies from about 25 to 50 per cent; on linen piece goods of the finer qualities, from about 50 to 100 per cent. , while on lace and on pure silk goods the increase is as much at 150 per cent, and on mixed silk goods about 70 per cent. (In all these examples, and others taken from the Return, the sucress invutioned relates to the amount of the duty, and does not mean per centege of the value of the goods. When a 10 per cent duty is raised to 20, ora 20 per cent, duty to 40, it is said to have been raised by 100 per cent, having been exactly doubled.) Raw fron and steel, common fron and steel wairs, and machinery, which were formerly admitted free, are now subjected to more or less onerous duties. Fresh duties have been imposed on certain lead or tin wares, and the duties on the finer manufactures of copper here been considerably increased. Coarse shoemakers' wares are now charged twice as much as formerly, while the rates on articles of fine leather have been increased about 60 per cent. The import duties on earthenware and percelain have only been slightly augmented, but those on glass wares have been raised about 50 to 60 per cent. Duties on oils, candles, cheese, spirits, and tobacco have been increased in about the same proportion. In brief, Germany has decisively rejected even modifled Free Trade, and has deliberately adopted a Protectionist system throughout. The important example of Germany cannot fail to tell with other countries.

Italy is the European country that has made the next most decided advance towards Protection as a system. The new tariff establishes considerably augmented rates on a large number of articles. The duty on cotton yarn has been raised about 20 per cent. on the coarser kinds, and over 100 per cent. on the finer. On the heavier manufactures of linea and cotton the increase Is slight, but it is about 50 per cent, on the finer qualities of cotton, and on linen thread lace about 220 per cent. About 160 per cent. theen added to the duties on aron and steel rails. and about 20 per cent, to the rates on all but the commonest description of cutlery. In other respects the duties on iron and steel have been not been materially altered. Other augmentations of duty are:—On rollod lead, 100 per cent. lead wares, 60 per cent. ; sheet tin, 150 per cent.; tin wares, 15 per cent., flue carthenware, 60 per cent.; colored or gilt porcelain, 40 per cent, and glass and glasswares about 50 per cent There is also an increase of duties on many other articles, among them fine soap, stearine candles, petroleum, butter, cheese, cocos. cho ciate, sugar and spirits. Manufactured tobacco. formerly prohibited, is now admitted but only at a very high rate of duty-£40 12s, 10d. sterling, per cwt, which is equivalent to 7s 5d, or \$1 78 per pound, while in cigars the duty is half as much more. Unmanufactured tobacco is prohibited altogether. Evidently, Italy is not taking her steps in the direction of Free-Trade, and her example, together with that of Germany, will strongly influence the rest of

Austria has reduced the duties on coarse cotton yarns, but has increased them 30 to 50 per cent on the finer numbers Bloached and dyed silk yarns are and mixed silks from 25 to 60 per cent. With many other instances of increase in the list, only a very few reductions are to be observed.

In Portugal the only increase has been on tobacco

duct, the increase is 200 per cent. A system of differential duties has been adopted, which is highly unfavorable to Pritish trade, as computed with that of most European countries Products of the Spanish colonial possessions are admitted at duties considerably respecting and respected, it only they would seriously lower than those which the products of toreign coun- take to head and heart lessons that were printed in there is not much to remark Switzerland has made tobacco. Greece has put on a special war tax of 10 per cent in addition to schedule rates

The tariff figures now in force in France are given in the return, but no remark is made upon them Remarks would in fact have been out of place, the French Chambers being this year, as they were also last year, engaged in the work of revising the saring in that class has been grent. Now, if it was here as it ticular concessions Franco will make in return for Mr. duties on French wines. Some concessions will have to come from the French side, or the pretence of making a treaty at all will have to be abandoned. But it is not for a moment to be expected that these concessions will change the strongly protective character of the French tariff as a whole, which is already fixed and determined.

We need no Imperial Parliamentary Return to tell us how the trade question progresses with our near neighbors, the people of the United States. Last book-the abolition of the duties on quinine and saits of quinine. This year, so far, all attempts to reduce duties have failed in Congress; and even the heat and commotion of the Presidential election contest does not bring to the surface any indication whatever of any popular demand for a move in the direction of free trade. The truth is that the American protective system, having grown by what it has fed on for the last nineteen years, is now so strong, and has its roots so deep spread throughout the country that no attempt to destroy it has any chance of succeeding. Some time, possibly before long, it may be revised and made more systematic than at present, but we may rest assured that its essential characteristic-the protection of home production against foreign-will not be given up.

Besides Canada, only one other colony-Victoria, in Australia, has as yet adopted a protective policy It was said a short time ago that a recent general election there amounted to a vote against Protection, but this turns out to be a mistake. The simple truth about our fellow colonists in Australia is that as yet they have not advanced enough in industrial progress to be Protectionists But that they will advance admits of no doubt; and that industrial progress will with them as with ourselves develop a popular demand for Protection, is as sure as next year's summer. In all this review of tariff changes in the principal commercial countries, what indication can Free Traders point to, to show that their cause is gaining in the world? Absolutely none of any account, while in all the great nations, England alone excepted, Protection either firmly holds its own or is making important advances It cannot be that all this means nothing it means that Capada, in adopting a National Policy. is simply following the example of the civilized world generally. And for the policy of the thing this would appear to be sufficient justification.

#### "GETTING AND SPENDING."

"Getting and spending we lay waste our powers, says the wise poet Wordsworth, who was himself a model of economy, and who had experienced the diffiilty of getting the wherewithal to spend. It is not only our "powers" that are wasted by extravagance, but our fortunes, our time, our happiness and our comfort, the security of age and the future of children. In the Life of Burke, recently published, that wise philosopher is represented as insisting on the necessity of economy for just that class of persons whom this article is intended to reach-persons with fixed incomes. The tendency of things, as he points out, is for the purchasing power of money to decrease-for a great variety of reasons not necessary to be recapitu lated here. This being the case, the necessity of economy is great. But it is greater still when we consider that as life advances expenses increase, by means of the education of children and the preparing of them for what is only too faithfully called the battle of life. Now, we may set out with the allegation that the practice of "economy," which means here saving, is least common among the very class in which it is most necessary. Experience of life and business has taught most thoughtful persons that a painfully large proportion of persons with fixed incomes are living at least a year shoul of these incomes That is: they are engaged this year in paying off the debts contracted last year; and by consequence, running into debts this year which next year is mortgas ed to pay. This is particularly true of the working classes, in which we may include clerks and all who have incomes fixed with sufficient certainty to enable them to tell within a reasonable margin how antch they ought honestly to expend. For the very of acres of land, which though unfit for grain or want such a reciprocity as would place our weaker of Dominion notes; the Government turned to its which they may reasonably expect to receive and how

ratification, is at last rejected. The new Spanish poor of course it is useless to provide measures or tariff raises the duties on several important articles i naxims; there is always that large and melanche ty of British trade-cost 100 per cent , ships and boats residuum who, being controlled by vices and but pas-200 per cent , leather 60 to 100 per cent , seed oils and by idleness and helplessness, are doomed by a 250 per cent, raw sugar 40 per cent., and writing very telentless law of nature to utter poverty all the paper 20 per cent. On petroleum, an American pro- days of then lives. But above these there is still a large class who might be happier and more comfortable if they would, who could be more useful t society, more belied to their tamilies and more wifetries have to pay With regard to other European States | their school hooks, and which have been impressed on their memories by the suissitudes of life. Exno considerable alteration, except in the duties on travagance among this class is too common, and the living a your ahead of income is the wretched result The cause of this state of things is perfectly plain and not unnatural. Extravagance has been, and still is, the note of modern society. Luxury amongst the wealthy begins the evil, and on this continent luxury from top to bottom. It remains to be seen what par- is in England, or in any continental country, where the dividing lines of society are so sharp, this would Gladatone's proposed reduction by one-half of the not be so much of an evil. But on this continent the dividing lines are indistinct, and people in the same rank of life have such varied fortunes, mix so much together, and act so freely on each other, that the inevitable result is-that those who are wealthy to a certain extent demoralize those who are not, give them an incitement to provide as far as possible the same enjoyments and the same display on means which will not permit it. The very greatest fortunes disappear in a generation on this continent. The year one change in the tariff was placed on the statute smaller ones are, of course, more early dissipated And nothing is so easy as to encumber an income. And at this point comes in the strongest inducement to avoid such a result. It is this: that once an income is burthened with debt, it is like a body afflicted with an incurable disease, it is impossible to redeem it. No matter what exertions are made, it is often quite impossible to repay debts. there are no savings possible to be made, and a very little accident, perhaps, cuts off the income altogether, The fact and the causes of it being thus generally outlined, let us look at the results of it. We think it will be admitted by most experienced men that the worst effect of a disturbed condition of society and trade is felt among the smaller tradespeople. And the indebtedness of people who might pay if they would, in nine cases in ten, is the cause of an immense amount of distress among this class. Grocers' books are often scandatous revelations of unthrift, extravagance, and almost criminal negligence of honorable engagements on the part of people with fixed incomes, and often on the part of people to whom payment in advance would be as easy as payment after the bankruptcy of the unfortunate man who has waited a year for his money Grocers, shoemakers, tailors, furniture dealers, not to speak of physicians, suffer enormously from delays, disappointments and losses by means of people who, as a rule, have quite enough money to save, if they would, instead of wasting. Snobbery, pure and simple causes more distress and annoyance among its devoteus and more suffering among its victims, than vices Bishop Fraser rather startled English society by saying he would sooner see the people free than sober; of course his actual meaning was misrepresented. We shall, however. perhaps, be better understood when we say that we would rather see the people saving than sober-for sobriety would follow a wise economy much more surely than economy follows sobriety. Snobbery, extravagance, the desire to appear better than we are, causes more misery to the of protection and 30 of free trade she has twenty-two valuable class of people (considered as citizens) who are cursed with it To rich people we would say pay your small debts—the payment is absolutely necessary to the circulation and trade of the country. To people with smaller and fixed incomes we would say do not go into debt at all; if you do, the chances are that you will never get out of it and will be miserable all your life. To all classes we have one closing observation to make in this country for nine people in ton money must be sered and cannot be made; and those who make money will confess that they began by saving it We have said but little that might be said on this question , but we have said enough for sensible people we imagine The story we have outlined, the philosophy we have incul-

#### CATTLE SHIPMENTS FROM P. E. ISLAND.

cated is not new It is as o'd as the Prodigal Son; it

will be true in the days of those who will call us "the

ancients." Something on many heads remains un-

said; and we shall from time to time, to the best

of our ability, endeavor to say it.

We are pleased to note that the farmers of Prince Edward Island are turning their attention to the raising and fattening of cattle instead of devoting, as heretofore, the greater part of their energies to the production of grain and vogetables. Several shipments of cattle have lately been made from Charlottstown to England, the shippers being the Messrs. Carvell and Blake Bros. The Island offers a good

winters in that province are long and server but one protection pure and rimple to such manufactures as season is generally sufficient to fatien cattle sufn- may be adapted to the condition of the country, clently for market. There is every prospect that the present experiment of shipping beef cattle to England will prove problable and much ciedit is due to il in Senator Carract, who is we learn the pioneer in the business. It will be remembered also, that it was be who took the first car to of frozen radinon from the Restiganche to London, last fall, thereby opening up a trade which promises to grow catensively

#### MANUFACTURES IN A YOUNG COUNTRY, AND HOW TO ESTABLISH THEM.

A young country like Canada has to do with economic questions under circumstances yery different from those which exist in England, England has markets for her agricultural products at her own doors, a deficiency of food, surplus capital, and unemployed labor; Canada has a surplus of food products for which there is no market, unless in foreign countries, and agricultural products are heavy and costly of transit we have, too, a deficiency of capital and of labor. Protection encourages the investment of foreign capital in local industries, and brings in the skilled labor necessary for these Local markets, the great want of a new country, are rapidly created; and good markets mean good profits and good wages. They stimulate production and lead to wealth. Where most of the population, as in Canada, are farmers, the products of the field find few purchasers except for export. Prices are poor, and the cost of transport to markets three or four thousand miles away, lowers to a minimum the profit of the producer. Alderman Mechi, in his work (1864), " How to farm profitably," says:

"It is precisely because British farmers have their customers—the British manufacturers—almost at their deors, and that other corn producing countries have not manufacturers, that British agriculture is rich and thriving."

Adam Smith, in his "Wealth of Nations," says :

"The increase and riches of commercial and manufacturing towns contribute to the improvement and cultivation of the countries to which they belong in three ways. I By affording a great and ready market for the rude products of the country "

Even in the most recent works written in Eugland solely in the interest of Free Trade, we have, inadvertently perhaps, a similar advocacy of the influence of manufactures in increasing the value of land through local markets. Badev-Powers, in a work published this year on Free Trade, says, p 78.

"Soils acquire a secondary value by the rise of mar-

ket towns or manufacturing districts." Manufactures add another population to the agricultural, these again give rise to commerce, with their kindred industries, and thus superadd another population. England, purely agricultural, could not support more than four millions of people; but England, agricultural, manufacturing and commercial, swarms with twenty-two millions. Canada has but four millions, but Canada, with all those industries. might now easily support ten times that number. At the beginning of the 18th century, MACAULAY MAYS. the value of the products of the farm in England, with only half the land cultivated, far exceeded all other fruits of industry, yet now, with the vast improvement in agriculture, and the additional one-half of the land brought under tillage, the soil is the least of the three great sources of wealth, so marvellous, under the most rigid protection, had been the development of manufactures and commerce One hundred and fifty years ago England had a population not more than Canada has to-day. Now, after 150 years millions, three-fourths of whom are engaged in maunfactures, commerce, and other pursuits unconnected burdens of State, and adding to its prosperity in peace and strength in war. With manufactures we get that illimitable power-steam-which in England alone is capable of doing more work than the entire human family. With this vast cressive power we can give employment to our own people, develop our country, and multiply a thousand fold the wealthproducing agencies. What then are the means by which we can obtain capital, population and skilled labor, manufactures and commerce, by which we can keep amongst us our young men and women; call to our shores a greater tide of immigration, accure that power more prolific than all others in the creation of wealth, give our farmers local markets, better and steadler prices; swell our commerce to such dimensions as to make easy the completion of our magnificent internal navigation and inter-oceanic communication, with all that is necessary for a complete and independent nation, and for the full development of the country? Amongst these means we believe none more potent than protection to native industry. Our manufactures must be protected in their infancy. stronger manufactures of old communities sacrifleing large sums to crush out the weaker industries of young countries. We find in reports of committees of the English House of Commons statements that sums as high as two millions of dollars have been sacrificed by rich manufacturers to destroy rivals in other countries. We do not want,

ragetables makes adminable pasture. It is tin- the industries at the mercy of strong rivals. We want and these once established, we are satisfied the na tional mind will be prepared to discuss, in detail, all questions connected with a Zollverein or a liberally constructed Becipiocity Treaty

#### THE RECENT BANK MEETINGS.

The proceedings at the annual meetings of share holders of our joint stock banks, which occur, as to the great majority of them, during June and July. furnish as with the evulence of business men unbiassed by party feeling, upon the condition of the trade of the country. By no medium is the actual state of business so accurately indicated as by the bank statements, and to them we may turn with confidence for the premise or refusal of a revival from the depression which has so long weighed down our commerco. The Bank of Montreal meeting derived some additional interest from the fact that the new general manager, Mr. SMITHERS, was brought for the first time face to face with the shareholders, and auxiety naturally prevailed to ascertain his opinion as to the prosnects of the bank for the tuture, and the actual condition of its business. As a new man, assuming the responsible position of general manager of the largest banking institution on this continent, Mr. SEITHERS natural and not improper inclination was, not to exaggerate, but, rather to reduce the assets as to which there could be any possibility of doubt, to the lowest estimate, in order that, when revived business gave to them a new value, he might claim the honor arising from the improvement in the condition of the bank's affairs. And yet, with all his inclinations running in the direction of large deductions, Mr. Smithers has found it necessary to write off less than was done by his predecessor in 1879. Thus, in the year which closed on May 31st, 1880, the gross profits were \$1,735,000 and the net profits \$1,049,000, the bank writing off about \$700,000 for bad dobts, while in the previous year the gross profits had been \$1,758,000 and the net profits only \$611,000, the disference of \$1,147,000 being absorbed by losses written off. It is thus seen that the management of the late general manager cannot be charged with a want of boldness in facing the situation from year to year and providing for losses as they arose. Of the losses provided for last year, not more than one-fourth arose out of the business of the year, the remainder arising from further depreciation in securities of insolvent estates carried over from the earlier years of the depression, and in this fact we have one of the most significant evidences of the improvement in business which has been going on for some months past. The condition of business, as revealed by the report of the directors and the speeches of the president and general manager, is still extremely quiet, and compels the banks to seek employment in the United States for a large amount of capital which cannot be used in this country, but, on the other hand, the period of failures has gone by. There is a substantial improvement in the lumber trade, from which important results are expected, and, in the words of the president, "the improvement in the general trade of the country was very decided, the manufacturing industry had benefitted by the revision of the tariff, and, being free from the unfair competition to which it had litherto been exposed, showed good prospect of doing well from this out."

There are some special features in connection with the proceedings which deserve attention, and among these is the disapproval which the directors of the Bank of Montreal, as well as those of the Merchants Bank, have expressed of the extension of the Dominion note issue, authorized isst session. The language employed in the report of the Bank of Montreal is as follows: "The legislation authorizing an increase of Dominion notes from twelve millions to twenty mililons on a very stender coin basis is a matter of grave with the soil, giving good home markets, bearing the importance, not only to the barks, but to the country at large, and your directors take this opportunity of recording an opinion unfavorable to Government issues of notes payable on demand, as fraught with danger to the best interests of the country." With the premises of this paragraph we are disposed to agree, but the conclusion is illogical, because of the clumsy wording of the paragraph, which fails to express the idea the Board intended to convey. Government issues of notes payable on demand are dangerous only when an inadequate reserve is maintained; with the condition of a strong specie reserve strictly observed, Government issues are preferable to those of joint stock companies, because of the better security they offer. But the question arises whether the reserve established by the Government can be considered a safe one, and to that we reply. "yes," so long as business is prosperous and conducted upon a sound basis; but whon a financial crisis threatens the country, such as overtook us in 1875, the reduced specie reserve will unquestionably intensify the crisis, unless the vigilance of the Government exercised before the event prepares them for the drain on the reserve when it Many instances are given in the history of trade of comes. When the depression came upon the country in .875, it first made itself apparent in the inability of importers to discharge their indebtedness to foreign creditors. The banks were suddenly called upon to provide sterling exchange in settlement of the adverse balance of trade, and found their resources inadequate to meet the demand; In a word there was not gold enough at their command to purchase the necessary therefore, either a Zollverein with American States to exchange. In this dilemma the Government was shut out English and loreign competition, nor do we looked to to bridge the difficulty by the redemption

the hanks were calling upon the Goternment for the very gold they were expected to provide. The expection and of the Linited States as a polar come NP appears to be helping but shitted in tent of notice as helping as the large as helping but shitted in tent of notice as helping but shitted in the notice as helping but that the Government deposit higher lanks cannot be taken into account in estimating the ability of the Treasury to redeem Dominion motes where a sudden misor whose wider xperionic in the money order system heavy depand is made for that purpose. The design and ruch value in the negotiations. As there was mand will be made only when the banks to june gold but little difference between the proposal of citaes for the purposes of exchange, and when therefore, Love amenia, the amended Convention was speedily they are not in a position to provide the kirasuity completed, and the Postmaster General of Consideration with the means of redemation. The legislation of the satisfie ion of signing the formal columnation last session, by reducing the specie icality held by the 25th May By this amended Convention, which the tievernment, imposes additional responsibility upon the banks, and practically compels them to order payable in the timied States has been made as maintain the specie teserve for both the Dominion symple as if it was payable in the Dominion of tananot sand their own issues, in times of crisis, when da-the purchaser of the order being handed the andden large demands for gold are made so that the protest made by the directors of the Bank of Montreal and Merchants Bink against the extension of the Dominion note issu, and reduction of the specie reserve against such, is not to be wondered at, and is, a basis of the international money order account under the circumstances, easily justifiable. But, doubtless, the Finance Munster whose mind has receipt of the advice at the paying office twelve or been fully occupied with this question, has calculated that no such sudden demand is 'tkely to be made in the future. The cause of the demand was excessive importation, and as the present policy tends to lessen terial. The charge for sending money orders is the bulk of our importations, by increasing production at home, the demand for exchange will not be likely July as follows:to arise in any force sufficient to cause a financial crisis. If this view of the matter is correct and is accepted, the danger which under ordinary circumstances we might admit to be present, is largely eliminated from the calculation. The banks are, upon the whole, satisfied with the new Banking Act They have reason to be so; it was framed in their interest, or, more correctly speaking, the expiring act | money order, but probably within a short time this was continued with few amendments and those of a nature universally demanded.

The testimony at the Merchants Bank meeting as to the condition of trade was, also, of a most encouraging nature. The general manager, Mr Hague, using those words -- "If, as is my hope (and I must confess that there is reason for the hope, the times have taken that turn for the better, which is the commencement of a series of years of soundness and reasonable prosperity, this bank can scarcely fail to participate in the better state of things that will then be prevalent." We have, therefore, the testimony of TRANSALTANTIC TRADE AND THE those who may fairly be considered the most cautious, and therefore the most reliable authorities, the tank managers, that the ondition of business has already undergone an improvement and promises to continue in the same direction, and the discussions at the bank meetings encourage us to look for a more prosperous trade in the year we are entering upon, than has been experienced since 1875.

#### MONEY ORDER EXCHANGE BE-TWEEN CANADA AND THE U.S.

In 1875, a convention was arranged under the direction of the Postmasters General of the United States and Dominion of Canada, for the carrying on of a system of exchange of money order between this country and the States American currency at that time being not of a gold value interposed, however, serious difficulties in the way of being able to devise a system of exchange, which would be at once safe to both Governments, and at the same time reasonably simple and speedy to the public, and as a consequence the issuing of a money order in Canada payable in the United States involved nearly as much labor to the Postmaster as a county attorney would have in drawing up a will of reasonable length, the unfortunate purchasor of the order boing delased for some fifteen minutes when the formidable locking document was being written.

The charge or commission, owing to all this elaborate preparation, had to be made in proportion to the labor, and the smallest fee levied in Canada for sending any sum under \$25 by money order to the States was 25 cents; the United States postal authorities charging exactly double this amount. Notwithstanding the art and cumbrousness of the system, the exchange supplied a great public convenience, and the business which, for the first year of its operation, only amounted to \$366,468.90, reached last year the sum of **3**643,456 83.

1876	Canadian orders payable in the U.S. \$210,727 51 276,817 21	U.S. orderspayabl in Canada. \$188,741 39 207,888 38
1575.	828,264 45	246,696 65
1879.	335,200 18	308,256 65

It will be observed that this increase has gone on steadily, and what is most striking, that during the last year, while the amount of orders opened in the United States and parable in the Dominion, has increase in each and every item mentioned, but of increased as compared with the previous year \$62,000, | most interest in the present case, is the tonnage of or 25 per cent, the orders opened in the Dominion, payable in the States, only show an increase of 2 per cent. The equalization of the value of the currency of the States with gold, suggested to the postal authorities that the time had come when it would be possible to amend the convention of 1875, and adopt a means of transmission which would not only be a great improvement departmentally, but which at the same time would afford much greater facilities to the public at less cost. With this view, an exchange of ideas diminish our imports from Britain, and therefore it | well informed as it is on matters financial, should took place between the administrations early last year, asserts that such a diminution has actually taken even contemplate so unlikely a contingency as that more.

regarding the terms of an amended convencion. Dr. happy in its reference to facts of this nature MACLIONALD was a companied by Special Agent Habs came into force on 1st July, the procuring of a money same, forwarding it to the person tor whom it is intended. It is absolutely necessary however, that the letter of a let e of each money order should pass through some recognised central office, so as to secure between the two countries. This may delay the twenty-four hours after the corresponding money order may have reached the person for whom the money was intended, but a delay so short is this is immagreatly reduced, and will be, on and after the 1st

	and the tonous :—		
			Cent«
l	On money orders payable in the I nited States		
	not exceeding	\$10	10
•	From \$10, and not exceeding	20	20
	Krom \$20, and not exceeding	20 30	20 30
١	From \$20, and not exceeding From \$30, and not exceeding	40	40
ď	From Sau, and not exceeding	50	50
ч	From \$10, and not exceeding		30
	Fifty collars is, in the meantime, the lim	nt e	dlowed
•	by the postal law of the United States f	or s	single

limit will be increased to \$100

We think the Postmaster General may be congrat. ulated on the satisfactory arrangement which has been concluded under his auspices, and have little doubt that the public will in this, as in all other matters, welcome and be thankful for changes which will save much time and touble to all who may have occasion to use the admirable system of transmitting money by means of money orders.

# NATIONAL POLICY.

Some days ago the Toronto Globe published a state ment of receipts and shipments of grain and flour a Montreal, covering the period from January 1st to June 4th, 1880, and for the same period in 1879, show. ing a decrease in the trade this year so far It contrasted this with the increased receipts and shipments at American ports, and asserted that a principal cause of the decrease at Montreal is " the deficiency and dearness of ocean freights, cause? by the dim ution of our imports." Here is a distinct statement made by our contemporary, which fortunately admits of being

VALUES.

Y ALL ES.	A MANIERS	A PROPERTY.
Cotton manufactures	£256,945 339,010	£231.945 321.760
	89,556	56,483
Linen manufactures	37,393	27,380
Silk "	168,830	152,468
Wanted at men	155,101	149,141
Worsted stuffs	61.714	5034
Carpets	47.504	37,117
Hardware and cuttery	81.52	8,675
Iron, Pig	29.172	3,0,2
Railway and steel	20.11	14,057
Concertant notice	39.533	18,511
I MAIL ASSESSMENT	102,33	86,265
Tin plates	63,752	21,492
Totel	1,458,028	1,115,199
Quantities 4 mos., 1550	). 4 m	5., 1579.
Cotton manufactures 14,983,100 ye		3.400 rds
Lanen " 3,811,700 "	2,657	300
Silk " 109,966 '	+ 101	393
Woollen " 5,596,900 "	4,316	200
	4 76	700 "
	.1. 74	291 gals
	4.5	.241 tons
Salt		2.878 gals
Seed oil		
Pig iron 22,601 to	)23.S	,275 tons

1890. 1879. 4 months.

Railway iron and steel All other fron Tin plates The increase in value is £339,829 sterling, or about four months only. Continued at the same rate to Dec. 31st, and we see no reason why it should not be. the increase for the whole year would be nearly five million dollars, an addition to Britain's trade worthy of mention, as coming from the Protectionist Dominion. But it is with quantities that we are chiefly concerned here. The table of quantities shows an exports of iron and steel, with tin plates added. In the four months of 1879 the total number of tons of these heavy experts was 17,127, against 57,743 tons in 1880; increase, 40,616 tons! What now becomes of the reckless statement that " one of the most potent factors in the work of freights, caused by the diminution of our imports?" The organ thought that the National Policy ought to

#### OUR NEXT ISSUE.

As important improvements will the attrise the second number of the Industrate World and National Economist, and as our air ingements are not yet complet for entiting out this destin the next number will not be published until the 7th of July, when 10,000 copies will be issued and all regular subscription, will commence from that date. Our correspondents and representatives will, in the meanwhile, wait upon leading manufacturers, financial houses, insurance companies, &c., to solicit their pationage, and we ask condial co-operation and generous support

#### INDICATIONS OF THE WEATHER AND THE CROPS.

The industions of this year, so far are remarkably lavorable for the northern portion of the temperate odd post offices in the United Kingdom zone in this and also in the eastern hemisphere, but rather unfavorable for the southern zone. The indications are favorable for both hemispheres, on the whole, because this year's measure of heat and The dusty lanes of Surrey and Kent, in which we had occasion the other day to refer, mean the best people will have their reflections upon it. harvest that Ireland, Scotland the greater part of England has seen for many years. This side of the Atlantic there is moisture enough, to the north, but of May 15th a deficiency to the south, and the results will shortly appear. North America will have a large production of wheat, but not of the best quality, while the Indian corn zones to the south, will fall under the average. This is not to be spoken of as a certainty, but it is by all odds the present probabilty. To put present harvest prospects in a general way, we should say that they are, on the whole, better now for Europe than for America. Heat and dust in the South of England betoken splendid summer weather and good ditional circulating medium, and within the last three crops the British Islands over, and the same for all years several banks have withdrawn from business, in-Northern and Central Europe. At the same time, we hear of severe drought in the Middle and Southern States, while here, to the North, we have moisture enough, but not too much. It shows well for the wheat zone, but for the corn zone, to the southward, the indications are bad. Of course the month of July may upset some of these foreshadowings, but this is how things lock at present. An extra good crop in Europe is now to be looked for, and people on this side the Atlantic can scarcely too soon make their calculations accordingly.

## SCARCELY CORRECT.

our contemporary, which fortunately admits of being compared with official figures, which tell a very different story. The following figures, copied from British Trade Returns, show values of exports to "British North America," for the four months ending with April last, also for the corresponding period in 1879, and the quantities:—

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1 mentioned. It is safe to infer that an exposure of the fallacies of the present tariff will not be in the line of the new

The above is from the Ottawa Free Press, of a recent date. We shall not enter into business particulars as these scarcely concern the public; but the inference that the Industrial World is in the most remote; unequivocally and distinctly deny. That many of the ablest writers in Canada have consented to become of these bonds, or the equivalent certainly of \$3,000,000. regular contributors to our ed terral columns, we have announced in the prospectus, but the names no ntioned above form neither a complete nor yet a correct list. In due course we shall be in a position to announce a staff of contributors that, doubtless, will be a sufficient guarantee of the legitimacy of this journal's claim to a generous and respectable support from every class interested in the future of the Dominion, and the inauguration of a policy that knows neither party nor personal considerations. The gentlemen whose £1,631,140, which is something remarkable, being for attainments and public prominence entitle what they say to mature consideration, we feel satisfied will write in the interests of the country as a whole, and not simply to please either a Government or a class interest, where such advocacy threatens to prove detrimental to the general prosperity of the common-

#### DOMINION NOTE CURRENCY.

(From the Ottawa Citizen.)

We print in another column a letter from Sir A. T. Galt, on the Dominion note currency, which appears in the Economist of May 15th. In the same issue our London contemporary refuses to be satisfied with our Commissioners' explanation, and still restorates that the Dominion is taking a step towards inconvertible destruction" is "the deficiency and dearness of ocean paper money, the same bugbear which Opposition financiers in Canada have held up to frighton timid people. We are really astonished that the Economist,

deposit in the banks for this purpose and it is as then but as the American Government had their hands full place, though official figures show a large and reason four per cent, bonds, grounded by the discovered that the dissertament deport in the banks inegotiating a money order post 1 convention in most remarkable in reaso. We do not forget that in Imperial Coverement, could not be convented into did not meet the emergency again t which it was held | Europe, the matter was ty mutual consent postponed, the above statements the figures for Newt made and at any time at the shortest notice. In these because, at the time the tievermient is unred gold until a f w weeks on when the t Michonaun, the are included, they being to all "British North days, when indifferent and worth one se unities so from the banks to redeem the D min on note issue Superintendent of the Mont Cont System at View - America 'But we can afford to deduct a for allow- much abound, and when good securities are comparamaten, a sent to dition by the Postmaster, and for the foliand, and still elements the Canadian fively renice, and eagerly rought after, the latter do rience of the zear 1875 seems to establish this fut missioner to treat with the Circulture authorities harring it. On Pice Trade contemporary is not contemporary stollaction is, in substance, thisilar the security provided is not sufficient to make it certain that vold to redeem the increased issue will always be torthcoming when winted. Two our siderations of prime importance it appears to leave out of 1 tht, or scarcely at all to notice As Sn Argy. AND REAL POINTS OUT. THIS IS A YOUNG and growing country and as the volume of business expands the note enculation mut safely be increased in proportion Not to increase the circulation is to strangle the country's business and arrest progress. Another consideration is, that the Dominion Government should be credited with at least ordinary produce and knowledge of business Ministers are not managers of with cat banks, but men who will sufficiently feel their responsibility to take care that no demand which cannot be met shall occur. Though the subject is a serious one enough, it is a little amusing to find in the Fronomist's own columns (May 22nd) proof that the policy of issuing Government notes for circulation is tavoured by the mesent Imperial Government, which itself so aidently supnorts Mr. FAWCETT, now a member of the GLADroxs Government, but best known to the English reading public as a Professor of Radicalism, Hard Money, and Free Trade, has a tually given notice of a bill to authorize the issue of notes for 2s. Cd., 5s. lus, s. d 20s, payable at any one of the five thousand Economist considers this a dangerous scheme, and in effect condemns Mr. FAWCETTS financing as much as it does Sir Leonard Tilley's That Mr. FAWCETT should at this very time be seeking to establish an Imperial note currency may not prove that the Canadian Finance Minister is right in seeking to noisture together appears to be the best for both, extend the circulation of Dominion not is But the coincidence is remarkable, to say 'he least, and

#### SIR A. T GALT S LETTER.

The following letter appears in the London Economist

Siz,- In the Economist of the 8th instant I observe an article on "The Canadian Currence," in which the terms of the proposed issue of notes by the Government are correctly stated, but from insufficient information an

erroneous view of the subject seems to be taken.
Under the previous law which, with some modifications of detail, has been in operation for fourteen years, the Government were empowered to i-sue \$12,000,000, including the entire supply of small notes of \$1 and \$2, with a specie reserve of 25 per cent. For all issues over \$12,000,000 the excess was required to be held in specie. The business of the country has develored considerably within the period named—the Provinces of Bruish Col-umbia. Prince Edward I-land and the Northwest have cluding one at least with a large note circulation.

There is now every prospect of an active and increasing demand for circulation, arising out of the recovery of the country from its late depressed condition. I do not, therefore think that exception can be fairly taken to the action of the Government in taking authority to in-crease their note issue. Indeed, as proof of the public demand for these notes, the Finance Minister stated that the limit of twelve millions had already been exceeded by half a million, which he had to hold entirely in gold.

In evidence that the Government do not prop force an excessive issue of currency, it may be sufficient to point out that the additional issue is not to exceed four millions for the first year, and a similar amount for the year following, and that the only aid to their issue is by precluding the banks from the use of notes under four dollars, which is a very slight change, as the notes in common use are ones, twos and fives, the two former having been for years exclusively issued by the Govern-

I may add, with reference to your remark as to the possible intended displacement of the silver currency by notes, that the silver currency is for change only, and is confined to quarter and half dellars. The circulation of silver dollars is anknown in Canada, as none have been coined, and the United States dollar being a depreciated coin, is necessarily at a large discount.

With reference to the reduction in the specie reserves from 25 per cent to 15 per cent, it is, under the condi-tions imposed, more nominal than real, as the 10 per cent. is to be held in 4 per cent debentures guaranteed by the Imperial Government. These debentures being held in London, and bearing a large premium, can at any moment be drawn against in New York, and the specie provided. The object of the Finance Minister is evidently to secure the means of providing within twentydegree controlled by the Dominion or any other Government, or any member thereof, we must clearly, unequivocally and distinctly deny

That many of

St. 600,000 when the entire 25 per cent. specie, while saving 4 four hours the entire 25 per cent. species and species are species at the saving 4 four hours the entire 25 per cent. species are species at the saving 4 four hours the entire 25 per cent. species are species at the saving 4 four hours the entire 25 per cent. species are species at the saving 4 four hours the entire 25 per cent. Species at the saving 4 four hours the

May I be permitted to correct your statement that the May I be permitted to correct your statement that the Canadian banks have been in the habit of keeping a reserve equal to 30 per cent of their listues. They have never been obliged by law to keep any reserve against their issues, as distinguished against their deposits or their lisbilities, and no special protection has ever been given to the noteholders, distinct from other creditors, until the present Government bill, under which they will have a prior lien on all the assets of the bank. Your obedient servant. Your obedient servant,

A. T. GALT.

10 Victoria Chambers, S.W., May 12th, 1880.

-Angus Whean, a Nova Scotia tarnier, has patented a churn which makes butter in 21 minutes.

-It is interesting, and to many persons it may be profitable, to know the comparative value of different kinds of wood for fuel. Shelbark hickory is regarded as the highest standard of our forest trees, and, call-ing that '90, other trees will compare with it for real raine as fuel for house purposes as follows: Shelbark hickors, 100, pignut hickors, 92 white oak, 84; white ash, 77, dogwood, 75; scrub oak, 73; white hazel, 72; apple tree, 70, red oak, 67, white beech, 65. black birch, 62; yellow oak, 60; hard maple, 59; white elm, 58; red cedar, 56, wild cherry, 55; yellow pine, 54; chestaut, 52; yellow poplar, 51; butternut and white birch, 43; white pine, 30. It is worth bearing in mind that in wood of the same species there is a great difference, according to the soil in which they grow A tree that grows on a wet, low, rich ground will be less solid and less durable for fuel, and therefore of less value, than a tree of the same kind that grows in a dry and poor soil. ordinary purchaser oak is oak and pine is pine; but for house use the tree grown on dry upland and standing apart from all others is worth a great deal

#### ALONG THE ST. LAWRENCE.

HIVES OF INDUSTRY

Corneyali and its Martifactures and trade. Moreistory, fragagis, West Witteliester. Edwardsburg and Prescot .

(Fi\_m unr Tracelling Porrespondent)

scat of the Court of Sessions of the United Counties of Struction These works, together with the factories hest wood market in Central Canada. Large ships Stormont. Dundas and Glengarry, is first becoming and canal improvements give employment to a very marks of grant. It 2 death buy, better, thereof, eggs are improvements. An important manufacturing equire. It is situated on large number of persons, and make cornwall a pretty and general large produce are not a tank by tall and the St. Lawrence River, on the line of the Grand the St. Lawrence River, on the line of the Grand the St. Lawrence Trunk line, is the town Trunk Railway, about eighty-five miles above Mon-101 treal, at the foot of the Cornwall Canal, and was laid out and settled by U.E. Loyalists in 1783, being one of the oldest settlements in Western Canada. Its present population is about five thousand. The town is an exact square, fronting one mile on the river and extending a mile back. The streets, which are wide, cross each other at right at rics, every block being of an equal size. The streets are also well graded, and are lined with substantial plank sidewalks.

#### TOWS COVERSMENT.

Cornwall is governed by a mayor, recte, deputy reeve, police magistrate, and a common council of nine members. The present mayor is A. P. Ross ning members. The present mayor is A. P. Ross Esq., George Kirkpatrick, Esq., is Reeve, John Bergin. Esq., Deputy Reeve, Angus Bethuns, Esq., Police Magistrate, and Geo. Jarvis, Town Clerk.

#### PUBLIC ECILDINGS.

The principal public buildings are the court house, registry office, and town half and market. There are also five churches, viz: two Presbyterian, one Catholic, one Methodist, and one Episcopalian church

#### EDUCATIONAL.

The educational institutions of Cornwall are first class. They consist of a High School, presided over by two teachers; a Separate School, with two teachers, and six Public Schools; the whole being under the management of a Board of Trustees, chosen by the Town and County Council.

#### ELECTORAL DIVISION.

The Electoral District comprises the town and township of Cornwall, and the present member for Cornwall is Dr. Bergin.

#### CORNWALL CANAL WORKS.

The Cornwall Canal is 111 miles long, and is built along the edge of the river in order to overcome the Long Sautt Rapids. It has seven locks 200 feet long by 55 feet wide, with a lockage of 48 feet. The bottom width of the canal is 100 feet, the top width 150 The new works now under way consist of two locks 270 x 40 feet with 14 feet on the sills. These will take the place of the three locks at the lower end of the canal. The locks, which are under charge of Mr Rublidge, are being built of a dark colored stone found in the vicinity in large quantities. The new locks are close together with a reach of 800 feet between them. The walls of the locks, including the raceway, are now completed. The stone courses at the lower chtrance to the canal are laid on crib work, with an outer abutment to guard against ice shoves. It is expected that the improvements on the Cornwall Canal will be finished next year, when increased shipping hollities will be afforded. The Comwall-Canal is part of the great system of Canadian canals, which make the St. Lawrence River the great water highway for the products of the West. Great efforts have been put forth by the Americans to divert the trade through other channels, but, so far, with only slight success. The quantity of grain which passed down the St. Lawrence at Cornwall in 1879 is estimated at 12,000,000 bushels.

#### AT A STANKE RESORT.

To those in search of rest and retirement during the summer holidays, Comwall offers superior inducements. In the rapids is excellent fishing, while the islands in front of the town are admirably suited for pienicing, lacting, lathing etc.

#### MANCPACTUR<u>a</u>s.

The chief manufacturing industries of Cornwall are its cotton and woollen factories, and its flour mills. The Stormont Cotton Manufactory is situated on the narrow strip of land between the river and the canal, at the west end of the town. The Canada Cotton Mills and the Cornwall Woollen Mills are situated Mills and the Cornwan Women Arms and all those ment the foot of the canal at the cast end. All those mills are run by steam and water power, the latter being supplied by alides from the canal. In addition to the above, Mesars, Flack and Vanarsdale have an extensive pottery. Mesars Flack Bros. run a large cotton-batting factory. Mr. Wm. Mack and Mr. Wm. Hodge each own large flour mills. Mr. It. Hodge and Mr. P. R. Adams own saw and planing mills. Mepris. Tobin & Loney have an extensive foundry and machine shop, and Mr. Wm. Atchison has lately started a sash and door factory. All these established a sash and door factory. All these established a sash and door factory. ments appear to be doing a prosperous business. A more extended notice of all these factories will appear in a future number.

#### MARINERS MEN.

Cornwall can bount of some next and substantia looking stores. The buildings are principally of blick Arrapatrick Broz., Edwin Kewin, Samuel Clive, Mo-Intyre & Campbell, and George McDonald, all on litt street. Messes. Donald McDonald, W. H. Dunkin and Duncan McRac, deal in groceries, and Messes. N. Taylor & Son and H. Pitta are the refusal at 1 and 1 and 2 and 2 and 3 and Denosn Messas, deat in groceries, and Messas, N. Taylor & Son and H. Pitts are the principal hardware merchants. Messas, Shaver & McDonald are extensive dealers in furniture, and Messas, James McDonnell, H. Hume and Mr. Banfield are the merchant tailors of the place. Dr. Pringle and Mr. W. B. Thompson are the principal druggists.

#### HOTELS.

The leading hotels are the Commercial House, J D. Melbenald proprietor; The Ottawa, Geo. Ross, American House, Allan Malley; Central Hotel, H. Penno; St. Jawrence Hall, E. Plomidon; Windsor Hotel, S. Crozby, Albion Hotel, W. Grant, and the Maple Leaf Hotel.

#### YEWSPAPERS.

Cornwall has two newspapers, the Reporter and Freeholder. TRADE OF CORNWALL.

of their town. The VanKonghuet estate has just methic a dark released at their town. elected an imposing brick block on Pitt street, con-Cornwall, the county town of Stormont, and the training nine stores, with offices, war result, etc. A sent of the Court of Sessions of the United Counties of thumber of other buildings are size in course of coun-

#### MORRISHUMO.

not so regularly laid out. It is built along the river. at the foot of the Williamsburg Canal, which is constructed in much the came manner as the one at Cornwall, and is four miles long. Thus canal was built to evade the Rayel de Plat, or Flat Rapids. It has a stave factory in operation. There are also a has eleven and a half feet of lockage, with two locks similar to those at Cornwall. The population of cipal manufacturer and design furniture. similar to these at Cornwall. The population of Morrisburg is about two thousand, and includes a number of quite wealthy men. Situated in the midst of a rich farming country, the shipments of grain and other farm products from Morrisburg is very large. and the general trade of the place is rapidly growing PERRY TO WADDINGTON

A steamer plies regularly between Morrisburg and Waddington, in the State of New York, every day in the year, the St. Lawrence at this point running so swiftly as to provent fee forming, even during the severest frosts.

#### PUBLIC AND PRIVATE BUILDINGS

Morrisburg can boast of as fine buildings as any town of its size and population in the Bominion.
There are quite a number of large brick blocks, comprising stores and other business places. Murkley's Music Hall, on Main street, is one which would do credit to a city of 100,000 Inhabitants. The hall is on the second floor of the building known as Murkley's Block, and has two entrances. It is fitted up with large galleries, stage, dressing rooms, open chairs, Weber piano, chandeliers, foot-lights, and indeed everything necessary for a first class music hall. This fine room is the private property of H. G. Murkley, Esq, who has fitted it up at his own expense for the accommodation of the residents of Morrisburg and vicinity. From the roof of the hall a splendid view of the river, islands and surrounding country can be

#### MANUPACTURES.

Mesars, H. G. Murkley & Son carry on an extensive business in the manufacture of sashes and doors. Mr. Gilson, ex-M P., owns a large flour mill, and Measrs. Nash Brothers an extensive machine shop. There are also two foundries, owned respectively by Mr. Miller and Mr. A. Dane.

#### TOWN GOVERNMENT.

The town government of Morrisburg consists of a duce. reeve and four common councillors. The present Reeve is Dr. Chamberlain. The streets and sidewalks are kept in good repair.

#### ROCCATIONAL.

The educational establishments of Morrisburg comprise the County Model School and a High School, employing eight teachers in all.

#### COTALS.

The leading hotels of Morrisburg are the St. Law-rence Hall, AcGannon Bros. proprietors, Windsor House, Walter Ford; Palace Hotel, Mr. Logan; American House, Mr. Stubbs, and the Grank Trunk Hotel, Armstrong Brothers.

#### SCHMER RESORT.

The advantages of Morrisburg as a summer resort are similar to those of Cornwall Good fishing, boating, bathing, etc., are within easy reach.

## CHUICHTS.

Morrisburg has six churches, viz. · 2 Methodist, 1 Catholic, 1 Presbyterian, 1 Episcopalian and 1 Lutheran.

#### XXXXXXXXXX

The newspapers of Morrisburg are the Courser and the Herald, both weeklies.

#### BURENESS MEX.

The principal dry goods dealers are Messra, W & J. Meikic, son, John Halliday, F. Bradfield, J. F. Gibbons and B. Wager. Mesers. John Barry, James Berry and J. M. Watson deal in dry goods and groceries, and Messra. W. A. Plants, J. M. Kingston, E. C. Matthews and Snider Brothers keep general stocks of groceries, liquors and stationery. The leading hardware mentage Messra. Bradfield Brothers, D. McMahon & Co., and G. S. Hickey. Mr. J. C. Chaimers is the chief jeweller. Besides the names given above, there are also five physicians, five lawyers and a number of merchant tailors and traders. The Molsons Bank and the Montreal and Dominion Telegraph Companies

and tivet brings us to

### IROQUOIS,

a town of some 1,000 inhabitants, at the callern end of the Galops-pronounced Galoo-Canal

This canal is seven miles long, and is cut through, or rather around, Point Iroquois, in order to avade the Galone Rapids. The canal follows the course of the river nearly the whole distance, having been built with crib-work. Its locks are 200 feet long, 45 feet wide, and overcome a fall of about 16 feet. The river between Point Iroquois, a short distance above the town, and the American shore is not over 400 yards wide, and the frequely people have lately been agitat-Being surrounded by a fine agricultural district, the ing for the construction of a bridge there. The current produce as well as of manufactured rent, although swift, is not deep, and it is thought from tornwall, both by the Crand Trank and by water, are very large; though, owing to the facilities afforded by other new fowns in the neighbor-ites of railway would be required to contain the vicinity of \$300,000

There is an indication of the amount of trade done in Prescott, the customs duties there for this year will amount to about \$25,000, while the excise duty collected annually is in the vicinity of \$300,000

Town government of Prescott objects is an indication of the first of the customs duties there for this year will amount to about \$25,000, while the excise duty collected annually is in the vicinity of \$300,000

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Town government of Prescott annually is in the vicinity of \$300,000

The

looked with live stock, grain, and every other product the commercial importance of Iroquels. The general of the west, pass Cornwall almost hourly on their plan of the town of Iroquels is similar to that of wast cast.

Morristure having one or two streets running par-From the number of fine new shops and other buildings which are now going up, it is evident that the business men of Conwall have faith in the future dark colors stone which a to VanKonshort sector has been dark colors stone which a to bound in the future of their town. The VanKonshort sector has been dark colors of stone which a bound of the vanKonshort sector has been dark colors of stone which a bound of the vanKonshort sector has been dark colors of stone which a bound of the vanKonshort sector has been dark colors of stone which a bound of the vanKonshort sector has been dark colors of stone which a bound of the vanKonshort sector has been dark colors of stone which a bound of the vanKonshort sector has been dark colors of stone which a bound of the vanKonshort sector has been dark colors of stone which a bound of the vanKonshort sector has been described as the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been described by the colors of the vanKonshort sector has been des

#### APPENDE OR SECULO 173

frequer-chims to be one of the best, if not the very

#### PERIOR MULTURAL

The that public buildings are the town bull and market house, the churches and public schools. There are told churches, owned by the Presbyterian the principal town or Dand's County Being a much Episcop Han, Wesleyan and Episcopal Methodist newer town than cornwall, of course Morrishurg is bodies respectively. The Wesleyan Methodist church

#### MYNCATCHTING INDERLEIF

The Iroquois Milling Company own extendive flour mills, and Messrs. Bailey & Mills have a large cloth factory, as well as one or two great mills. Mr. Patten

#### BUSINESS MEX

The principal merchants of Iroquois are Messra. C. & M Mills, general dealers, D. Abbott, E. McNuity, Ross Brothers and Poran & Son, dry goods. Messrs. James Tindle and J. Coulter are the leading grocery and liquor dealers, and Mears. E. Ault and G Sures are the druggists of the lown.

The principal hotels are the Commercial House, D. Bowen, proprietor, and the Powell House, by J.

#### EDUCATIONAL.

Iroquois possesses a High School, presided over by two teachers, and four public schools.

#### TOWN COYSENSERT.

The town government of Iroquels consists of a reeve and four councillors. The present reeve is J. N. Tuttle, Esq. The town also boasts of a bank, a custom house, a newspaper and a number of other institutions, which will be notloed at length in a future number.

#### WEST WINOHESTER.

This thriving village of 500 inhabitants is situated on the Morrisburg and Ottawa road, seventeen miles north of Morrisburg. It is located in the heart of a rich agricultural district, and is growing fast.

The principal industries of the place, besides farming, are the extensive saw and grist mills, and sash, door and stave factory, owned by Mr M. F. Beach; a carding and shingle mill, owned by Mr. Hugh Christic. and a choose factory, also owned by Mr. Boach. There are also several carriage factories, and five general stores well stocked. Andrew Broder, Esq., M.P.P., deals extensively in grain, butter and general pro-

#### DWARDIBURG.

A village of about 600 inhabitants, is situated on the Williamsburg Canal, and also on the line of the Grand Trunk Ballway, seven miles west of Iroquels. It contains a large

#### STARCH PACTORY,

owned by W. T. Henson, Esq., who is also an extensive farmer. Edwardsburg, also possesses four churches, two schools and two hotels. The starch factory we will notice at length at a future time. Twelve miles west of Edwardsburg is

#### PRESCOTT,

A town of three thousand inhabitants, also on the St. Lawrence, and at the junction of the Ottawa and Grand Trunk Railways. Prescott, like Cornwall, is an old town. It was first surveyed and laid off in town lots in the year 1810, by Edward Jessop, grandfather of Col. H. D. Jessop, ex-M.P. and now Collector of Customs at Prescott. The land was granted to Loyalist families, and settlement was begun about the year 1813. Since the original survey was made, the ordnance property, including Fort Welland, at the It should now be, anothing like paper." Paper is east end, has been added to the town. The town front used for almost everything. Among the things made extends about one and a quarter miles along the river, along touch many buckets. I some uses annulated at and runs back about half a mile. The streets cross each other at right angles, each block being an exact square. The St. Lawrence at Prescott is a mile and a half wide, so that there is very little current. On the opposite side of the river is the city of Ogdensevery hour between that city and Prescott. There is and chimney nots, door barrels, cottage walls, roofing a very large traffic across the river here, and a vigilant; tites, and bricks and dies for stamping, at made of staff of outlones officers has to be maintained in order paper. Attention has frequently hear mall of prevent smuggling. Prescott roof in the latest to be maintained in order paper. to prevent smuggling. Prescott port includes about twelve miles of the river front, so that the Collector and his iew assistants must have their hands full. From the high ground at the west and of Prescott town a fine view of the St. Lawrence can be obtained.

#### PUBLIC BUILDINGS

The principal public buildings are the town ball, registry office and market house. All these are quite in keeping with apparent progressive spirit of the people of Prescott.

#### manweries and distillation.

The chief manufacturing industries of Prescott are the extensive distillery of Mr. Wiser, M P., and the breweries of Meers. Labatt & Co. and J. McCarthy & Son. In connection with his distilling business, Mr. Wiser owns the Redsyk Stock Farm All these institutions we will describe at length in a future issue. SRIPPING PACILITIES.

Few towns on the river or lakes possess better shipping facilities than Prescott. The St. Lawrence & Ottawa Rallway line runs down to the river at the eastern ond, and steamers call at all the numerous wharves on their way up and down. The Grand Trunk Depot is also just in the rear of the town. As

Orand Trank Is something immense. Vast trains Trank trade in a southerly direction and add much to ally. Wm. Dunn. Esq. is the present mayor. Phen ployed

#### BERREIT MER.

The principal merchants are Messes Robinson Greenhil & Co., liteir a Larmer, T. Kavanogh J V Miller, L. O. St. Jean & Co., who deat in dry goods Measrs McAuley & Crificrits, J. Maybury, J. P. Hayden, Keitty & Co., and O. E. Johnson, dealers in greeciles, Measrs, N. Willard, Ross, Cummins & Co. and Sweeney & Co., hardware merchants, and Mr. M. L. Sagmen, dealers in Renters and hardware. J Sweeney, dealer in Houors and hardware. Mesers A Jordan, T Kavanagh and John Notan are the principal desiers in boots and shoes Mr. cyri-Ti-kess on n- a large foundry. The leading merchant tailors are Messes Edward Mundle, Davis & Co., Win Dunn, jr, and Joseph Haynen McIsts Georg Burke, C. E. Hephurn, Thomas Melville Alfred Harding and Angua Fraser are the druggists of the town, and furniture is supplied in Meast. Alfred Hough and Myles Coous.

#### CHUM HES

Prescott beasts of two churches, all sub-tantas structures. There are I Pre-byterian, 1 Catholic 1 Spiscopalum, and 2 Methodist churches.

The Registry office for the County of Grenville :at Presentt. The present Registrar is P McCrae 1-1

#### HOTELS.

The principal hotels are the Daniels House, L it Daniels, Esq., proprietor; the Revert House, J s Huntingdon, the Queen's Hotel, George Brunnin. and the Windsor House,

#### FORT WELLAND.

This military station was built during the war of 1812 to result expected invasion from the American side of the St Lawrence. It is a square earth for, situated at the east end of the town, and communic the channel of the river Kxtensive repairs were made to this fort by the Ordnance Department last year, though the guns were taken to Ottown some time ago. There are, however, four field or carriage guns still at the fort.

Quite an agreeable friendship appears to exist between the people of Prescott and their American neighbors at Ordensburg. On the evening of our visit a first-class inusical hand came over from Ogdensburg and gave a free open air concert for the benefit of their Prescott friends.

## GENERAL INDUSTRIAL NOTES.

-The Bay of Quinte and the Moirs and Trent rivers are to be stocked with salmon fry.

-There is some talk in agricultural circles of a central exhibition being hold atternately at Ottawa and Montreal.

-Twenty-five thousand acres of land in "Belt Di" near Morris, Manitoles, were sold in one day last week by the Dominion Land Agency at Emerson.

-The President of the Calcutta Chamber of Commerce expresson fests that India cannot longer compete with America in the production of wheat. ten trade in that country is also depressed and a commercial crisis is predicted.

-The damage occasioned by the recent tornado and flood in Wisconsin is estimated at a million dol-lars. Bridges, mills, houses, farm buildings, and millions of feet of logs have been swept away, and dozens of families are homeless.

-The United States Department of Agriculture reports an increase in the cotton area planted of seven per cent. The condition is 99 this year, against 96-last year. The condition of the winter wheat is 94, which is four per cent. above the average of last YEAR.

-The Grand Trunk Railway is making steady progress. The intent improvement amounced is the introduction of dining cars. A new car for the purpose has just been completed at the Company's works, Point St. Charles. The time was when it would have been deemed necessary to get cars manufactured in a foreign country; but that day has gone by.

-The Grand Trunk Rallway has 1,300 miles of road, 434 engines, 274 passenger cars, 9.017 freight, box and other cars; the Great Western, 902 miles, 216 engines, 167 passonger cars, 4,549 freight, box and other cars. The average speed of the Grand Trunk other cars. The average speed of the Grand Trunk and Great Western passenger trains is 24 miles an hour. Twelve miles an hour is about the rate at which freight trains cross the country.

....The old adage used to be, \* nothing like leather. ing, water cans, carpels, skitts, whole suits of clothing, jewelry, material for garden walks, window curtains lanterns and pocket handkerchiefs. The most striking of the many objects exhibited in this material was, perhaps, a fire stove, with a cheerful fire burning value of ordinary sheets of paper as a substitute for bedelothes. The idea seems to have suggested the pibrication of blankets from the chesa material, and if all that is said of them is true, they ought to be extensively used -- Lumbermen.

...The Pelham correspondent of the Hamilton Speciator reports that a few years ago a gentleman statted a small nursery there and way not successful, and sold out to three gentlemen named Messrs. Morris, Stone and Wellington, three experienced business men, who went to work with a determination to succeed if possible, and they have succeede-greatly beyond their articipations. They beught sev-eral acros of land adjoining that already in their possession and planted the same. Now they have over 200 acres under cultivation, with three conservatories 100 feet each in longth and 40 feet wide, extensive packing houses, offices, etc. They employ at times over 70 hands and a large number of teams. Last spring they shipped trees to the Northwest to the value of \$25,000. These nurseries are probably the largest and less in the Dominion, and every year will add to their area and the increase of labor. The crops in the township never looked more promising, the fall wheat being very little injured by the frost. On many farms the yield will be fully twenty, if not more, bushels to the acry. There is a very large broadth sown. The spring crops also look very fine, grass especially. Clover will be light, the latter being winter killed, but the wheat and out straw will make up for the de-The town government of Prescott consists of a literally loaded, while small fruit is likely to be more

#### PRACTICAL SCIENCE.

#### SPONTANEOL & COMBLATION

tioms experiments made at High with reference to the spontaneous combustion of various materials wad-ding, naw flag, being, the word said, word, and conton ting, the next usuals are well and, while had collect spining also sounge, as well as the wood last faints as the colour maker's slare a speec to demonstrate the important fact, among others, that small quantities resily take the amoner than large ones. The substances named were saturated with Farmus that souls, turpenings, petrolours, rarious variaties, ar. All the formus materials took the when saturated with a constitute of the colour saturated with a col tipe, personeur, various variousies, ac. All the folious maternals took for when saturated with nov of these offs, or with mixtures of the same sponge and wood dast, or the contrary, proved to be otherly barmiess. Committee them, busing chairs a rapidly with eventuring grains of wadding the contrary manner of the same of the contrary. and sixty-seven grains of a streng of various, namely, and sixty-seven billills, while two hundred grains of washed cotton waste, of which a fortun was entirated with texen hundred and fifth turns of strong of butwith even numeric and any grams or viring on var-nish, and the remainder wrapped about it, required a period if well-nigh fourteen hours. On these materials being placed in a well-stellered spot and subjected to a beat of from is 2 to 40 2 C., six did not flame it, but pear or row is and, as siready theory so is anali quag-titles sectled to take it a somer than large,

#### TREE CULTURE ON WA TE LAND

Hitherto the abundance of natural timber in this Hitherto the abundance of natural timber in this spatery has made it asy to dispense with unber culture, and for the most carr our land owners have taken little garrest in such slow-growing crops. This state of alongs, however, is rapidly baseing away. The demand the special words for manufacturing purposes is standly like a periodic increasing, while the return to continue. and rapidly increasing, while the cateral supply is liminishing, and most ultimately become quite inadeunits. Meantime there are initions of acres of land litable for timber culture and for nothing else, except mitable for timber cutture and for nothing else, except for partnage that our land owners are allowing to lie water and idle for lack of a little forethought, and too figuratly our would-be thrifty farmers will risk their urplus means in wild-cat speculations, promising but were yielding large and specily returns, when the same honey spent in planting timber would soon convert their porthers awarms and those Transaction. worthless swamps and stony places into valuable

properties.

A correspondent, writing from Wisconsin, tells of a filece of land that was planted with walnut twenty-hier sare ago. The land was flooded every spring and summer, and was unfit for any ordinary cultivation The trees are now from sixteen to twenty inches through, and have been sold for \$27,000. No particulars are given as to the cost of planting the gove, or the amount of attention it has had during the years of growth There can be little doubt, however, that the investment was small in comparison with the return, and the land would otherwise have remained entirely unproductive. To the constry the timber crop was so much clear gain. It is clear that our cational resources might be enormously increased by a similar utilization by timber culture of lands which are now left unused and unproductive; and the planters would find their groves a surer investment for the security of their family possessions time any savings hank deposit.—Semmine American. Mobertier American.

#### VENTILATION OF BOOTS AND BHORS

It is a matter of the most common every-day experience that in the wearing of boots and shore, and especi-ally those made of rubber, the feet sweat and lient almost ally those inactor traver; the return was and near amount continually in cold weather, making the feet classmy and cold, and inducing childinis, and in watth wather, with the brat presention, exceedingly nexions. It is doubte test the cause of much of the rotting and breaking of uppers, and is, above all, an exceedingly unbeaking feature of the present method of dressing the feet. Attempts have herelofors tren made to obviate this to a number of water to instance by inner soles of different number of ways, for instance by inner soles of different kinds intended to absorb the most ture; and unsoccessful gind a intended to accord in a meeting, and unaccessing efficies have also been inside to ventilate the buot or about fivery person feels the need of something that will satisfactorily accomplish this object. A recent invention which is said to do this effectually, is an exceedingly aimple device, it consists of a spiral coiled brass wire, a standard in and accord the radar side. simple device. It consists of a spiral coiled brass wire, taid in a groupe extending in and around the under side of the insole of the boot or above, with holes punched at close intervals, immediately over the coil. The coil is extended along to the beel, and carried to the ton, where it stops at an eyelet hole, forming, when walking, a complete automatic air jump, continually drawing in pure air and throwing off the foul and leasted air.

#### MECHANICAL INVENTIONS IN THE U.S.

After a somewhat lengthy litigation before the United States Patent Office, to determine the originator of the invention for producing multiple copies of writing, by what is known as the dry process, two parents have lately assued, which seem to reat in a German subject the authorship of the invention.

Mr. George Lettenmyer, of Little Georgetown, W. Yn., has patented an improved carpenters work benches which are provided with a sliding dog or clamping law.

which are provided with a sliding dog or clamping jaw

operated by a lever.

Mesers, William A. Branch and Edmund Golucke, of Crawfordville, Ga., have patented improvements in grinding mills of that form in which the runner-atone is provided with metal grinding surfaces arranged in the eye of the stone, so as to give a preliminary grinding to the grain near the centre, where the leverage is greater, before being admitted between the stones.

An improved rull for forming billets from sirel railroad ruls has been ratented by Mr. Frank R. Davia, of Johnstows, Ph. The invention consists in constructing the rolls with a peries of grooves, so formed as to gradually

lows, Ph. The invention consists in constructing the rolls with a series of grooves, so formed as to gradually lower and thioses the web and fill out the angles between the web and the flanges and bead, and then bring the rail into the form of two triangular parts connected by a thin web, and separate the two parts, forming two triangular billets.

An improved parters runno has been patented by Mr.

triangular billets.

An improved rotary pump has been patented by Mr. Erwin B Newcomb, of Camberland Mills Me. The object of this invention is to construct a rotary pump in such a manner that the floats shall be balanced and operated by the pressure of the water acting through ports or channels formed in the cylinder bends, and communicating with the exit and entrance ports of the pump and with the radial float slots of the revolving selluder.

gylinder.

An improved rock drill has been patented by Mr. (Ico. P. Schauer, of Nashville, Tenn. The object of this invention is to provide a drill that will cut a perfect obsauci in the rock, and at the same time dress both faces of the said chancel.

An efficient and powerful implement for raining stumps, roots, rocks, and other objects, has been ratented by Mr. Wright, of Helmont, N.H. The invention consists of a vertical U-shaped frame in which moves a ratchet bar, the traine being movided with a lever for fitting the ratchet bar, a latch far retaining the bar at the point to which it in lifted by the lever, and aprints for introving the latch in and out of engagement with the ratchet bar. michet bar.

### USKFUL FACTS.

Much trouble one often be saved by marking tools with their owner's names, which can be easily and inexpensively done in the following manner:—Coat over oil on the winerves the tools with a thu layer of wax or hard taken, by trade at that port.

first warming the steel, and rubbing on the wax until it flows, and let it cool. When hard mark the name through the wax with a graver, or any sharp-nonnted instrument, and apply nitric acid. After a few moments wash off the acid, and wipe it with a sett rag, when the letiess will be etched into the steel.

A good plan for attaching emery to wood in to cover the wooden wheel with thick leather, and then to make a pasts with very then give and emery, and buy at so, with a knile. The give must be about as then as make These wheels, if make right, whi cut a great deal better than most, if not any, solid emery wheel and will not glaze. To y cut best when mounted on a long, this

The absolute strongth of a well glood junt is given as follows -

Pounds per square Inch.

•		Across the tiraus. end to said.	With the Ural
Doeëh		2.12A	$f_{i}(-x)$
Min -	1 +	1,4.2,	1,124
Oak White Woul		1,7,25	# T 5
White Wand		1,4-∃	~ 11
Maple		1,1,2	le Tag
It is austanas.	A	from man stuck	As

the spoke explusive or expense of the Legistudes maples in the constant of the surfaces, justed with glue, can permanently sustain with miety

For attence lately dissolve 11 ox common plus which has been a day in cold water, with some causily sugar and I v grom arable, in the low water, straing constantly oil the whote is homogenous. If this pasta is applied to labels with a brush, and allowed to dry, they will then be ready for use on merely mois entage with a trucker. with the tongue.

To preserve out flowers, let a spoonful of char-coal powder be added to the water, and the flowers will last as long as they would on the plant, without any need of changing the water, or taking any trouble at

The following ingredients are said to form an indelible black ink for writing on zine —Take 30 parts of verdigris. of sel-ammoniac, 8 of iamp-black, 8 of gum-arabir, and 300 of water; dissolve the gum in the water, and pour it over the other ingredients, well mixed and reduced to powder. A quill pen should be used for

An excellent rement for attaching metal to glass or porcelain consists in a mixture of a solution of eight ounces of strong glue, and one ounce of varieth of lineseed oil, or three-quarters of an ounce of Ven ce turpenties, which should be boiled together and shried till be borrough the province of the property of the province of the control of the the mixture is thoroughly incorporated

#### TOM PAINES BRIDGE.

The following extract from a paper read by Mr. Picton before the Buttish Iron and Steel fushitute, was published in the Railway Gazete —
Une of the first employments of iron on a large scale

was in the construction of bridges. In the sixteenth century a proposition was made by Italian engineers to century a proposition was made by italian engineers to constitute a bridge in cast-iron, but the scheme proved abortire. In 1755 an iron bridge was projected at Lyons, to consist of three archers of 82 feet span. Part of the work was actually prepared and put together in the builder's yard, but from some cause not recorded this at-tempt was also abandoned and a timber bridge substituted In 1777 the first from bridge in England was designed by Mr. Thomas Pritchard, an erablicat of Shrewsbury, was constructed by Mr Abraham Darby, of Cosbook Dale, and erected over the Severn at Brosely in brook Dale, and erected over the Severn at Brosely in 1779. The span is 100 feet; the arch nearly semi-circular. Soon after this date the idea of coestructing bridges in wronght-iron occurred to several French engineers, and several designs were prepared for works at Paris and elsewhere, but they were not carried out. In 1795 another cast-Iron bridge was constructed over the Severa at Buildwas, by Thomas Telford, 130 feet span. The boldest conception, however, was the cast-iron bridge over the Wear, connecting Monkwearmenth with Sunderland, which was designed by the celebrated Thomas Paina, and was opened in 1796. It consists of a single arch, 236 feet span, with a versed since of 34 feet. Par

Pains, and was opened in 1796. It consists of a single arch, 250 feet span, with a versed sine of 34 feet. For grandeur of idea, lightness of effect and economy of material, it has never been surpassed.

Commenting on this, Mr. Jeremiah Head said that among the early fron bridges referred to in the paper was the one crossing the Wear of Sunderland. He happened the one crossing the Wear of Sunderland. He happened to have been sugged on the staff when that bridge was rebuilt a great many years ago. He confirmed all that had been said about it. That bridge, originally designed by the celebrated. Tom Panin, and afterwards on a by it little, constated of six girders made of a number of small casts put together and to the and then the two bars extending the whole it light wore joined or the sides and boiled through so that the costs were really arrang together like a section. In server, then were the together like a me gives. In servery them were tles, creat and diagonal, from end to end. The bridge was cross and diagonal. Irom end to end. The bridge was so light in on truction that he thought no modern eargineer would have nated to put up such a thing, and it would only have been done, one would think, by some person who was unaware of the immense risk he was coming. Nevertheless this bridge stood and carried all the traffic between the two sides of the river for a great matter was a result of the river for a great traffic between the two sides of the river for a great traffic between the two sides of the river for a great of the side of the river for a great traffic between the two sides of the river for a great of the side of the river for a great traffic between the two sides of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great of the side of the river for a great under years. Eventually these girders seemed to get out of line; some of the casts were broken, and they became wave, so that they were not in a direct line. Still came wavy, so that they were not in a direct line. Sill the townspeople of Sanderland were proud of their structure, and when it was decided to rebuild it they The late Robert Stephenson attengthened it by putting is three large box girders, one between each pair of these original ones, and they are now what constitute the bridge. Two of the old girders were preserved. They belonged to the outside ones, so that they were the bridge. Two of the old girders were preserved. They belonged to the outside ones, so that they were still to be seen: but they have no portion of the weight, and they were there as part of the original structure designed by Tom Pance. The iron was made of cold-blast from, and he believed there was no other to be laid in the allow to make those latter works equal to all the other to make those latter works equal to all the other to make those latter works equal to all the other to make those latter works equal to all the other to make those latter works equal to all the other to make those latter works equal to all the other to make those latter works equal to all the other to make those latter works equal to all the other to make those latter works equal to all the other to make the part of the machinery from this and all the other to make the part of the machinery from this and all the other to make the part of the machinery from this and all the other to make the part of the machinery from this and the part of the machinery from the mach

#### SHIPBUILDING IN NOVA SCOTIA.

At Kingeport, Mr. P. R. Crichton has two ships of 1,403 tons each on the stocks, one nearing completion, the other in an advanced state.

At Avondale, two ships of 1,200 and 1,400 tons respectively are being built, one scarly ready for launch-

At Cauning, Messrs. E. Bigelow & Sous have just launched a fine vessel of 1,200 tons. She is to join at West Bay, Parraboro', with deals.

At Eatonville, Messrs. D. R. & C. F. Eaton have a

atroke each. Having extraordinary facilities for carrying on this branch of business, the firm is anxious to secure contracts for a class of small fast-sailing steam-

Mr. J. R. North, of Hantsport, is baying a large quantity of timber, and expects to put on a ship of large ton-nage during the present month.

At Speacer's Island, a ship of about 1,200 tons is in course of construction for Messex. Bigelow & Sons, of

-Additional freight sheds have had to be constructed on the wharves at Montreal to meet the increasing

#### ONTARIO INDUSTRIRS.

-Muskoka is grining favor as a wool growing district.

Brockville merchants want a butter and checae Tchange

-The demand for wool is a ported brisk in Westett Onfario.

-An extensive bed of shell mail has been discorred near thillm. Ont.

-The "St. Catharines Pulp and Paper Company

uro serking incorporation.

One thousand head of cattle were shipped from Toronto for England last week

-It is proposed to establish a bending and patent wheel factory in Bothwell, Ont

-Orders have been given for the machinery for a in a sugar refinery, to be erected at Trisonlogia, Ont. -Joldi Robinson of the Bidhwell Agricultural

Works, is going lengtly into the manufacture of Iron feth the -Taylor's Woollen Mills at Supance are doing a

brisk business. Twelve tooms are kept at work didagane A survey is being made proparatory to the con-

struction of an inducase wheat elevator at Prince Atthur's Landing. -An effort is being made to establish a silk and

cotton factory at Picton, Onto to employ from lifty to seventy-five hands -Wark on the new cotton factory at Brantford is being pushed rapidly forward. The brick work is

now live feet high all around If it said that the Hamilton Felt Hat Factory which has been languishing for some years past, is to

resume operations at an early date. -The Orand Trunk Bailway are creeting huge docks to receive coal at Port Huron and Point Edward, Ont. At Black Book 90,000 tons are already stored.

-The price of potatoes has taken a sudden jump upwards, as the supply in the country is becoming limited. Some speculators are engaged in importing until the new ones come in.

—It is proposed to commonee, in Peterborough, Ont., the manufacture of woodenware, such as pails, wash tube, matches, etc., of a finer quality than any now manufactured in Canada.

-The Strathallan Cheese Factory, of East Zorm Oxford County, is now in full working order. The May cheeze has all been sold at good rates, the quality of the cheese made at this establishment standing At.

The Samia Wollen Mills have been rented again, and will shortly be in full operation. Mr. W J Totten, of Paris, Ont., a thoroughly practical man, is the lesser, and it is understood he has taken the mills for a term of years.

"The Oakville, Ont., Standard says: "Seldom has the fruit c.op in this district looked so promising as it does this season. The strawberry crop will be exceedingly large, and there will be an abundant yield of apples, pears, etc. -It is said that an effort will be made in the

British House of Commons to have the present restrictions upon the importation of cattle into Great Britain removed. The reliability of the veterinary examina-tions will be questioned.

-James Britton, of Toronto, intends offering a gold medal, valued at \$100, at the next Industrial Exhibi-tion, for the best four head of Durham Grade cattle. suitable for exportation. The animals must be bred and fed by the exhibitors.

-Five thousand tons of hoy, from the Ottawa Valley, passed over the Occidental Railway last week, as rests to the American merket. The railway authorities are putting on extra tolling stock in order to accommodate the increasing traffic.

-Mr Sution, who proposes to erect a cotton factory in London, Ont., asks the city for a bonus of \$50,000, and says that he intends to form a joint stock company with a capital of \$300,000. It is likely that the City Council will submit the proposal to the citizens.

-According to instructions from the Postoffice Department, handbills enclosed in newspapers hereafter will subject the newspapers to 2 cents extra postage. This is as it should be. Numbers of newspapers have heretofore defied the law, but under this regulation the offenders against it will be placed on a fair footing.

-The salt bed at Petrolia lately announced has proved so great that a wealthy company has been formed, and a shaft twelve feet aquare is sink-ing, designed to reach the bed. Several hundred feet of selid rock must be gone through before reaching mis

to make those latter works equal to all the others combined. A large paraline factory will also be built on the Victor grounds, and the works of Waterman Bros. closed down.

-The Kingston Collector of Customs list issued instructions regarding the disposal of damaged grain.
There are these alternatives—to pay duty on the grain, return it to the port whence it came in bond, or destroy it by emptying it into the lake in the presence of the landing waiter. A vessel will not be allowed to depart from the harbor with damaged grain unless a bond be given that it will be returned to the place from which it was shipped.

-A large immigration of Scandinavians to the Cana-At Eatonville, Mesers. D. R. & C. F. Balon bave a —A large immigration of Scandinavians to the Canaliarge ship nearly completed, and have a contract for another, which they will commence as soon as the present one is lausched.

At Hantsport, Mesers Churchil & Co. have a ship of transportation overland from Thunder Bay of such of about 1,800 tons in an advanced stage. This firm have also a small steamer nearly ready to launch. She is a very fine model, and bids fair to be a fast boat. She is a very fine model, and bids fair to be a fast boat. She is thus hoped to evade the wiles of Minnesota and Dakota land agents, who, according to one section of to have a pair of engines, cylinders 8 is. diameter, 10 is. divert a large number of the immigrants expected to reach that province.

-Massra. Haggart & Cochrane, manufacturers of agricultural implements at St. Thomas, are shipping largely to Manitole, where they have this year established several branch warehouses. The firm expect to work up a large trade in the Praine Province, in which section the tariff is, they say, of great advan-tage to them. Of course they require to manufacture specially for that market. The trade promises to become a large and lucrative one for Ontario manu- London, Eng. -Alliance Bank (Limited), Bank of Montreal facturers of agricultural machinery and implements. if preperly packed.

#### THE BANK OF

## BRITISH NORTH AMERICA

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#### FULRI OF DIRPCTORS.

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### AGENTS.

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#### IRON MINING.

Tie Operations of the Forsytheand Buildwin Mires, fromsides,

Hall to Old Chelse. The Lorst the man which bears? The manner of the gen feman by who not was promisely worked, is quite close to the tot! The readown to the femants for lapter work is a very intended for the pit is continuously so id income rock. It a distance of several hunared feet. The pit is about they feet square at the month, is axty feet deep, and widena as you go down. The walls being of solid took no finance-work is acceled to present them from falling in Steam power is used for housting and drilling impossis, and grapowder and dynamine for blasting. When the one is housted out of the particular brown it contrain cut, which copyrist it to the bluff at the end of the roadway. which convers it to the bluif at the end of the toadway Rere it is dumped into a "sh provided with openings at bottom from which the waggons are losted. The currenter for handing the are is Mr. J. H. Kerr, of Huli bottom from the Foreythe mine about half the one is shipped by water and half by rail. That shipped by water is placed on barges at Ironsides what, and thence taken craft he Rideau and Welland canals and the lakes, to Cleveland. Ohio, thence by rail is taken to Prescott via the St. Lawrence and Ottawa Railway, and thence across the river to Ordenshurz, and from there by rail or boat to its destinaand Uttawa Railway, and thence across the river to Ogdensburg, and from there by rail or boat to its destination at Niles. Thirty-two trams are employed every day in hauling ore from the Forsythe mine, to the wharf and railway station, and these teams caro, on an average, three dollars each per day. Three tons of coal is an average load for a pair of borses.

Fifty-four miners are employed at the Baldwin mine, who are paid at the rate of \$1 per day. A new pit is being opened on the same property, about three hundred yards further up the mountain, where the vine of ore is larger and of a ticker quality than that below. A shaft, eighty feet steep, has been sink, and a quantity of

shaft, eights fees steep, has been sink, and a quantity of trout taken out. Fourteen near cottages have been built as homes for the miners, who have families, and heard-ing houses are provided for the single men. These, together with the roadways and the works at the wharf, were all built by Mr. A. H. Baldwin, the former proprietor o. the mines

#### THE BALDWIN MISE

The Baldwin Mine is situated near the top of Baldwin Mountain, about a mile above the Forzythe Mine, and is mached by a circuitous road, which winds around the hill in every direction. From the top, near the mines, a grand unrestricted view of the whole Ottawa Valley can be obtained. The Baldwin Mines consist of three upenings; none penetrating far below the surface Iron crops out all around, and there is no calculating the amount of ore to be found in these hills. The present Iron crops out all around, and there is no calculating the amount of ore to be found in these hills. The present proprietors of the Eaidwin Mine are Mr. McLaren of Buckingham, Mr. Pew of Welland, Ontario, and Messre. McLennan and Downey of Toronto These gentlemen also own the Forsythe Mine, which is held under lease from them by Colonel Robius, acting for an American company Mr. J. W. Milay, of Ottawa, has the contract for getting out the ore from the Baidwin mine. He could use twenty men and thirty terms. has the contract for getting out the ore from the Baidwin mins. He employs twenty men and thirty trans. All the ore taken from the mines is shipped by water, but as soon as the Chaudiere Railway Bridge is completed, an effort will be made to have a branch railway built from Hull to the mines. The St. Lawrence and Ottawa Railway Company have intimated their willingness to construct the work, provided the proprietors of the mines will guarantee a certain amount of freight, and secure a free right of way. The latter, it is thought, ean be easily obtained from the owners of the land through which the line would pass. The grade, of course, would have to be pretty steep, but as no loaded ears would require to be taken up, the grade would be no obstatle in the way of the construction of a cheap road. zond.
It is understood that an effort will be made to have

the smelting of the ore taken from these mines done on the premises at an early date. Colonel Roberts has the premises at an early date. Colonci Roberts has purchased the smelting apparatus formerly used by Mr. Baldwin, at Ironsides, and purposes fitting up the furnaces, &c., in time to have the work of smelting under way by the close of navigation. The general yield of pure iron from the Forsythe Mine is 82 per cent. That the Iron is of a superior quality is evidenced by the fact that American manufacturers of iron ware prefer it to Penusylvania iron.

#### THE SOURIS COAL FIELDS.

Nunnipeg Times. Souris country, being the first instalment of the dark mineral wealth owned by Mr. Hugh Sutherland in that future Pennsylvania of the Dominion. The coal was brought here by John Sutherland, brother of the proprietor, who to forty-three days coming down The barges were constructed at the coal fields, out of timber made from trees felled on the spot. Much difficulty was experienced on the journey, as timber jams and other obstructions to navigation were met. Two large loads of coal arrived yesterday from the isms and other obstructions to navigation were met with, but all were overcome, and the feasibility of Malone gold mines have been most salisfactory. We Souris navigation determined. It is anticipated that have been informed that as high as \$115 per ton there will be sufficient water in the river until August there will be sufficient water in the river until August in each year to float barges down. At present there is twenty feet of water in the river. Mr. Sutherland has expended some \$15,000 on the experiment, and now that he is satisfied of its success, will go on with the work on a much larger scale. He calculates to make one trip z year, building sufficient barges to bring down all the coal needed for a year's supply. The coal is said to be of a very serviceable quality, and was a source of admiration to all who saw it—the first specimen of what is destined to be one of our great industries in the future. Mr. Sutherland intends sending haif a ton to Toronto for further examina-tion. Should this project be successful, it will be the means of materially reducing the price of fuel another year in Winnipeg.

#### GENERAL MINING NOTES.

-A New York firm have paid \$50,000 for a few

acres of gold-mining land in Marmora,

-Antimony mining is becoming an important Industry at Lake George, N. B. The supply seems to be inexhaustable.

-The Chicago Industrial World says that the most extensive copper and iron mines in the world are those around Lake Superior.

The Hall Bros., operating at Fifteen Mile Creek, Picton County, N.S., recently realized 300 ounces of gold as the result of 90 days work —Atkins Brothers are developing several promising weins of hematice ore in Ruscomb, Manor Township, Birks County. They have already suck a well, and

will erect machinery.

The British Columbia coal mines yielded 84,000 —The British Columbia coal mines yielded 34,000 promotion of the wast undertaking which, it is be-tess in 1877, 171,000 tons in 1878, and 241,000 tons lieved, will require more than \$8,000,000."

of 1870. The export to force is posts for 1879, amount of to a 3-3 tons, which as \$500 costs of one concerns of county discover the fit symmetrial

we be der eral his fien thente be better The from mines of this was county are smalled in the addition to sterm patrioses than the south sailt had monthly about the miles north at Hull and two miles. A on his to co. Months if the concernment is have

-The miners in the rect one man fact miles from

thum at lance. Here is the same parent present in the color at lance of the Sam I man color of Manage Press, a good nugger of the same of solor to the same time a number of larrax d process of gold wise found in the stances. He has been nugaged three years in prening his claim.

-Work on the lift his phosphare mine. Bucking-ham, is to be beginn at once. Men and provisions were shipped up recently by the new firm controlling. HEAD OFFICE: 28 Toronto Street, TORONTO

in the bed of the river, mixed with quicksilver. The color shows clearly to the naked'eve and can be washed out to pay from \$2 to \$5 per day

-A Cape Breton paper says the silver mines at Cape Mation have been sold to the Cape Biston Oil and Mining Company, of Boston, and operations will be at once commenced thereon. Several new wells are also to be sunk by the same company at Lake Annalie, where they will probably soon "atrike oil"

—It is proposed in St. Stephen, N.B., to form another company for the purpose of opening up stall further the apparently large deposits of ore at Massa. rene. Several gentlemen left here on Saturday night, and, arriving at that place, inspected the ground where lies the expected bonanza. The presencts appear more layorable than was anticipated large percentages of copper, silver and lead ores large found in the lodes examined Several specimens were brought home by the party. The company, when organized, will, we understand, be called "The Passamaqueddy Mining Carles," Section County. Mining Co "-St Stephen Courter.

Mining Co "—Si Stephen Courter.

—The San Francisco Mining Prem of the 5th inst. says:—"An association known as the "Focene Tunnel and Mining Co." has filed its claim to all that part of the North Fork of Feather River, from bank to bank, for a distance of 11 miles, designated on the map and known as the "Big Bend of the North Fork of Feather River" It also claims the right of way for tunnels, flumes, ditches or pipes necessary to successfully work the same. The objects of the company are set forth to be the diverting of the water from its inclural channel and the mining or digging of the river bed, and all bars located in it, within the confines above described, for precious metals. It is also stated that the company does not propose or miend to interfere with vested or accrued rights already acquired by other parties. That the company is pose or intend to interfere with rested or accused rights already acquired by other parties. That the company is a powerful monesed institution is fully demonstrated by the following names of the members:—Wm. If Vanderbilt, Anthony J. Drezel, Chas. H. Lewis, Jos. H. Banker, Thos. A. Edison. R. L. Cutting, Jr. Geo. C. Perkins, Charles Batchelor, William H. Cox, F. McLaughlin, E. W. McKinstry, J. C. Logan, John Hoey, G. W. Cummings, P. O. Hundley. This is, beyond question, the greatest mining enterprise ever undertaken on this continent, and possesses a capital unequalted by any financial institution in the world except, possibly, the Rothschilds. Operations will be entered upon before the close of the present season. The fabulous wealth of Feather River bed mineral deposits is so well known, and bas been so strikingly demonstrated by the few developments hitherto enacted on a small scale, that the feasibility of this undertaking and the profitable character of the investment are questions admitting of no discussion. discussion.

discussion.

With reference to the gold and from mining operations at Madoc, the North Hastings Review says:

"The depression in the fron trade still continues, but parties interested here are of opinion that prices will soon be up again, and business resumed. At the Seymour mine Mr. Puscy intends keeping the men at work getting out ore ready for shipment as soon as prices are high enough to make is profitable. We understand a force are steadily employed at the Dufferin mine getting it in good condition for extensive work Mr. Munson continues to ship ore from the his way back here again. Recent operations at the Malone gold mines have been most satisfactory. We was realized from the concentrated ore lately put through the Severn mi'l A number of the men employed here have suffered from poisoning, caused by escaped arzenic, but no serious results are apprehended. We understand crushing is going on regularly now Several car loads of gold ore were shipped this week from the Richardson mine to Mr T O. Hall, of Buffalo. From all accounts his process of treating these ores has been highly successful.

-The Czar of all the Russias has determined to develop the coal and iron resources of that great country over which he and the Nihilists preside, and has engaged a Philadelphia man for the purpose of managing the business for him. A despatch from Philadelphia save. "Wharton Baker, of this city, is to start for Russia to-morrow, at the solicitation of the Case, to develop the great coal and fron fields of Southern Russia, bordering on the Sea of Axof. Mr. Baker acted as agent for the Russian Government two years ago while the cruisers were being titted out in years ago white the crinsers were being into out in this country. The Czer has tendered to Mr. liaker personally the sole right of opening up the Denetz coal fields, north of the Sea of Azof, the fron deposits of Krivol Rog, north of the Crimea, the construction of a railway system, from the Sea of Azof, a distance of two hundred miles in a northern direction; the establishment of a great shipping port on the sea; the tablishment of a great shipping port on the sea; the arection of works for the manufacture of Bessemer steel rails, and the building of grain clevators. This offer was made to Mr Baker while in Russia about a year ago, and he was informed that the concession would be extended for eighty years. He at once employed a corps of engineers, under lieury A. Vesir, of this city, to make a geological survey of the country, and charts were prepared showing the immense veins of iron and coal extending across the greater portion of Southern Russia. The reports of the experts were \* —We gather from our large list of mountain exchanges, says a San Francisco paper, that there is a
vertiable "boom" in the gold-quartz regions, and that
prospectors have rarely been more numerous or busy.

York agreed to subscribe the necessary funds for the

### UNION

# west of the Galacian later in the road leading from mines are equal to a finite of the fact of the finite and type in the road leading from mines are equal to a finite of the finite of

CAPITAL - - - \$1,000,000.

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MONTREAL, 24th June' 1880.

#### CLOSING PRICES IN THE LONDON METAL MARKET.

The following were the (1-) ug neless in the Lordon metal mutket yest idny (Vers v), May 2840-1880 --

Bare, Welsh (in London) 5 10 0 to 0 0 0 9 0 0 0 10 0 0 Sars, Surdish (in London) Bat, Staffordshire (in London 7 00 to 7 15 0 7 10 0 to 8 5 0 2 5 3 to 2 5 3 6 5 0 to 5 10 0 Wait rod in London; ... Pig, ti M le, fe b. Clyde la, Welsh (at work - ) Rulls North of England (at works) | 0 | 0 | 0 | to | 0 | 15 | 0 BIKAL

Begaenier racis (at works) ... ... . Rughish spring Swedish (in kegs) .... id unto noo Sweuish (in laygots) COPPER

eathing and sheets .... ...... 65 0 0 to 66 0 0 Burra or P C C ..... 70 0 0 to 71 0 0 ERAB (per ton )

English pig, WB ..... ...... ... 16 0 0 to 0 0 0 English sheet . ... ...... ... 18 10 0 to 15 15 0 rin (per ton).

anca ... nominal ... nominal ... raits .... 72 5 0 to 0 0 0 TIM PLATAM (par box) G. coke ...... 1 50 to 1 60

spatrum (per ton) aglith (Swansea) ...... ..... 19 50 to 0 00

From the Annual Report of the U.S. Iron and Steel Association )

RICES OF IRON AND STEEL BEFORE AND SINCE THE REVIVAL.

The following table will show the lowest prices suched by various iron and steel products since the anic of 1873, the highest prices reached since the sylval in 1879, and the prices prevailing at the middle (May, 1880) Detailed tables of vices for a long series transaction. years will be found elsewhere in this report :-

Articles.	Lowest Price.	Price Price Peb., 1880	Price. Nay 15, 1880
of authracite foun- dry pig tron at Philadelphia Penging Rock car-	Nov 1878 \$10 50	\$43.00	\$25 60
wheel pig 17011 at Cincinnati lefined bar fron at	Feb. 1870 \$28 00 Jan. 1870	63 00	60 00
Philadelphia ron rails at Phila- delphia	Oct , 1877 \$31.50	89.60 68.00	56 00 50.00
iteel rails at works in Pennsylvania Ildiron rails at Phil-	\$40.00 June, 1878	85 00	C\$ 00
adelphia	July, 1878 \$20.00	42 00	26 00 25 00
Cut nails at Pitts-		5 23	3 25

The fluctuations in the price of Connellsville coke ave been greater than in any of the articles above men-ioned. At the close of 1878 and, the beginning of 1879 be price at the cross was as low as 90 certs a too borney is 70 it advanced by successive stages to \$1. and a February and March last it rose still higher to \$3. a law sales being made at even \$3.50. It has since failen to \$2.50. Iron ore advanced in all about 100 per cent lifter the revival, but it has since receded about 25 per last from the present questions. ent. from the aighest quotations

-Excellent iron ore from the Swandon mines is eing received at Port Hope

-Another oil refining company, with their headuarters at Petrolia, is apoken of.

of 1879.

20

Ž,

-Business appears to be looking up at the Spring Hill, N.S., coal mines. The miners wages have been increased from 90 cents to \$1 per day, and no nereased number of men have been engaged. The output of coal from 1st January to 1st of June of this year exceeds by 10,000 tons that for the same period

-A gentleman who recently arrived from Cape output of coal this year exceeding that of former years by 60,000 or 70,000 tons. Orders had already been received for as much as can be mined, and the whole resources of the proprietors and men will be atrained to meet the demand

—We are informed, says the Ironton (Obio) Register, that on the Lawrence and Belfont lands they have a manganic ore that has about 9 per cent of manganese which is calculated to make the hest of metal. The velous about 3 feet thick. When first indued it looks like limestone, but on exposure turns to a bright hemaute in appearance. It will have a thorough trial

-The new machine shop which is in course of erection by the Acadia Foundry Company is 105 x 40 feet, height of post 16 feet. It is to have a truss-girder roof covered with sheet from Mr. Donald irant has the contract of the building, Mr. Townsend of the masonry. The work is being pushed forward rapidly, and it is expected that in about a month the machine shop, blacksmith shop and moulding shop will be running full time - Halifax Chronicle.

will be running full time — Halifax Chronicle.

—A New Brunswick paper says: "Vegetiations have at last resoluced results, and the charcoal tron works at Upper Woodst ck and the mines at acknownile have been sold by the former owners Lewis P. Fisher, David Muoro, Henry A. Connell and Frank P. Sharp, to Messrs Charles H. Salisbury and James H. Sturdy the pepresentatives of a large mining a mpany in Rhode Island. The question of right of way has been deaded, and the New Brunswick Railway Company, from the curve in the track below the bridge, are to construct a branch line along the bank of the river, which is very broadle for such purpose, to the works at Upper Woodstock, a distance of one and three-quarter miles. The largest of the furnaces at the works alone is capable of producing 2,500 toes of pig from per year, which mount would be the product of 7,500 tons of ore, averal hundred men will be furnaced with employment a handly githe ore, in working at the mines, and at the more. wersh hundred men will be turnuned with einployment is haulir gibe orn in working at the mines, and at the yorks. Work in clearing away for repairs and rebuilding necessary to the resumption of operations have been to the state works under the direction of the Walson to the . F. Watson, Jr , C R.

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#### A MONSTER CLIP.

Few Englishmen have any kiea of the magnude of the operations carried on by the leading Anstralian sheep fatmers, and the labor and expense attendant on the working of a large station. Some-statistics of the sheating at Burrawaiir, one of Messrs. Edols & Co.'s stations in New South Wales, may be of interest. The past season's shearing listed ten weeks, and was finished the first week it. December, by which time 206,123 sheep had been deprived of their fiscoes. To do the work a hundred shearers, in addition to the station hands, were employed, and in a single day as many as 5,316 sheep were shorn. The aggregate yield was 2,515 bales of dumped wool, each bale averaging 3 cwt. 3 grs in weight, so the gross weight of the station fiscoes was no less than 406 tons. The fiscoes of the rams averaged 8½ lbs., of tobs averaged 54 lbs the weathers 61 lbs., and of the breeding awes and lambs 3 lbs. 15 oz.; the average weight of each of the 206,213 fleec a, of which 54,000 were taken off lambs, being only an ounce under five lbs. The wool was well ealy an ounce under five lbs. The wool was well grown, sound and free from burr, and though Meesrs. Edols & Co have in previous years aborn 8,000 more sheep, the number of bales this year is 150 in excess of the yield of any former season. The clip is the largest yet recorded in New South Wales, and much of the great auccess of this station is due to the attention paid by t'e manager, Mr. Dennie, to the proper classing of the sheer. The labor and care required for the proper earrying out of the work at a station of this size can may be appreciated by those who have visited our earrying out or the work at a station of this size can an'y be appreciated by those who have visited our Australian colonies, but the figures will suffice by themselves for some idea to be formed of it. They will also convey some slight impression of the advantages theorine to the colony by the extension of its railway ay tem so as to tap the literina district.

-The projected cotton mill at Milton is thus no-ficed by an exchange:--Mr. McKay, whose manu-Suctory of cotton yarn and batting was recently burned down in Dundas, visited Milton on Tuesday, and being favorably impressed with the town as a manufacturing point, proposed to the Council to erect a Suilding, put in machinery to the cost of \$5,0 0, and employ from 20 to 40 hands continuously, on being granted a remission of taxes for 12 years, and a loan of \$1,000 for seven years. Mr. Joseph Martin offered him a site, north of the grist mill, and water power at the nominal rent of \$50 per annum. A number of gentlemen offered to subscribe the \$1,000 so that it used not be loaned by the town. The Council held a special meeting on Wednesday night, and were addressed in favor of granting the privileges asked for by Drs. Freeman and Robertson, and Messrs, H. Watson and I. Cartmer. The Council passed unani-mously the required resolution, and we hope to see the building commenced at an early date. The buildlings are to be of stone and brick."

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DIVIDEND NO. 26.

NOTICE

Is hereby given that a DIVIDEND OF FOUR PER CENT upon the capital stock of this institution has been design upon the current half year, and that the same will be payab at the Bank and its branches on and after

Friday, the Second Day of July

The Transfer Books will be closed from the 17th of June 12 the first day of July, both days inclusive,

The Annual General Meeting

Of the Shareholders of the Bank will be held at the Bankus. House in Toronto. ou

Tuesday, the 13th Day of July Next

The Chair will be taken at two ve o'clock acon-

Il) order of the Board,

W. N. ANDERSON.

Toronto, 23th May, 1880.

General Manage?