INDUSTRIAL WORLD

AND NATIONAL ECONOMIST.

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

III --- No. 62.

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AND NAGONAL LCONOMIST.

Per manager & V.

DERIC MURDIAS, 60 101:0NTO

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alttances should be made by registered ormanas orderi avable to 1. No action, ger, INC. STRILL WORLD.

TO ADVERTISEES

Indiagrat Wester, on account of itand reneral circulation, commen lefteelt advertising tordium for all who seek es with manufacturers and the whole ade. Itaa leertiring rates are low when red with those of other leading electific industrial publications. Conf of some

to much the offer by Twenter morning in week, no some smale of the surper good of such

TO CORRESPONDENTS.

desartment "Notional Industries" is art for the unrestricted neouf those who to place their views on interesting before their brethren in the trade. sing in the nature of an advertisement be printed in this department.

miliaker will be obliged to all who well eral in time of news or late overstances. mach will be presented on these appropriate

Il editional communications to be ad-

Draner 1910, Ottawa, Oct. business letters, logalities () alies

ate, to be addressed to FREDERIC NICHOLIS. INC. SCREEN WORLD OFFICE.

Y GOODS,

TOYS. NOTIONS, ETC.

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lly invited to call and examine our which is now complete in every departnt for the fall and holiday trade. ever before have we had such a largo and beautiful amortment er

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Dosks.

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Swords, etc., etc.

PVELEES S In every department at

nufacturers and Importers.

o Heuse,|Montreal House, TST, WEST. G9 10 63 ST. PETER ST.

THURSDAY, SEPTEMBER 15, 1881.

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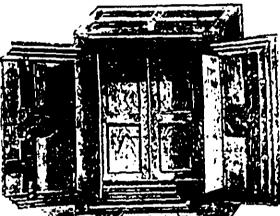
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HONGUR MEDAL, BERLIN, 1878.

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EVERY MILL A SUCCESS. of a tode organism. The machine once adjusted needs nom relation in Bollothe on a part. Fird regulated by shitting of fever

UNPRECEDENTED SUCCESS.

. Rolls in tiray's Patent Noveless Roller France. Over Min new in use. Se I fir

MILLER BROS. & MITCHELL, 11 (12) H1 to I He bring St. Menteest.

Sile Incorporator Done - Dollar InContract to Plant, importance Post Steel Win

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MERCHANT OR PHECE GOODS DATES AN SHER WOOL OR MIXED GOODS

GENTS AND LADIES GARMEST DYFRS SILK AND SILK VELVETS A SPECIALTY

521 St. Joseph and 221 McGill St'a. and 693
St. Catharine St.. Montreal.
30 King Storf East
121 Front St. of
121 Front Street
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129 July Street The only place in the Denis in whose all classes of workers to guaranteed each to the last house in Put por land to will be seen to the last house in Put por land to the last h

Dominion Belt and Hose Co.

James D. McArthur (MANACER.)

LEATHER BELTING (Oak Tanned), LACE LEATHER, FIRE ENGINE HOSE, ETC.

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SPRING CO., MONTREAL. Office, 198 St. James St.

PO BOY 815 V'oiks, Coto St. Paul.

" SNEE ACTURE IS OF SUPERIOR HAND OUT

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Guarantee 1.

PRICES

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New in general use. Dispersent, saving over any ther spring used.

DON'T FAIL TO EXAMINE OUR EXHIBIT.

CHARLES MARTIN

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MONTRUAL.

FINE COLOURS & PAINTS

ANILINE DYES, BRONZE POWDERS GOLD, SILVER and METAL LEAF, MIRROR PLATES PLUMBAGO. SLATE PENCIES MARBLES

CHEWICAL

TINFOILS and CAP-SULES, DYE STUFFS, ESSENTIALORES FANCY PAPERS. GELATINES OLUES, OLY CERISK, PRINTING INKS.

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LAUNDRY BLUES,

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Leather Belting, FIRE ENGINE HOSE,

LACE LEATHER, etc.

124 & 126 Queen St., MONTREAL

COAL AND FLOUR.

flo weight of attack tona the Pice Tradeside against the National Loiley. talls largely upon the coal and flour duthink they score a proat when they denonnce it as being not national, but anti-national in its character because, as they allege, it sets the interests of the Provinces in opposition, each against interest to buy from Pennsylvania in-American flour is to be had much chesper and nearer at hand. Therefore, they argue, its effect must be to rend the East and West asunder, instead of drawing them together. Taking the case. of Ontario first, we venture to assure these open opponents of the National Policy that they are very far astray in their reckonings indeed if they imagine that public opinion in that Province will hold the small duty on imported coal sufficient, were it felt as a burden at all, which we contend it is not, to outweigh the many great and important benefits of the National Policy. It is plain that this tax does not touch the farmers, to begin with, so we shall hear no grumbling from that quarter. But who then does it touch? The dwellers In cities and towns, of course, who use coal, and to make the matter clearer let us divide coal consumers broadly into three classes. First, we may take consumme of some means who use coal for domectic, aliop, office or warehouse purposse. If the duty be really a tax paid wholly by the consumer, we may say that consumers of this class are able to pay it, and we may add further, that for the trifling outlay they find themrelves repaid several times over through the larger custom and better payments of their neighbours. Next we may put down those manufacturers who use coal in their respective industries, and with them the story is a short one and soon told. The triffe extra which they but a drop in the bucket compared with the rush of orders, works running full people, as they contend, having any time, and the large increase of produc- interest in manufactures. If they admit tions and sales arising from the lifegiving operations of the National Policy on home business. We think that this class of consumers may be set aside, very little grumbling against the coalduty is to be expected from them. And new we come to the "poor men"-he. over whose oppression by the coal-tax the antagonists of the National Policy are abedding their bring tears Pictures are drawn of the poor man and his tamily suffering cold the winter through, vecause of the fifty cents per ton on hard of their argument to affirm, and to hold coal. But let us put these pictures from imagination's reckloss brush beside the clear outline of hard facts, and see how they will stand the test. Of those who can fairly be called "poor" men, very few use over four tons of coal in the reason, or indeed as much as that, but let us say five tons, which will make this outrageous tax \$2.50 per aunum. Now, if the "poor man " aforesaid happens to get just two or three days work in the year more than he would have got, but for the National Policy, he is coal duty in cub. cerned. But he gets far more than that, aye, twenty times more. He gets it not only in the shape of better wages per day, but still further in the shape of steadler work-more days work in the year. We fitmly believe that working men generally know how to "put this and that together," and that labourers, mechanics, and factory hands in all departments of production, who live in the towns and use coal, will utterly refuse to join in the senseless cry against the policy which brings work for themselves and bread for their families.

But surely the Nova Scotlans will rebel against the odious "bread-tax," so it is said. In answer to which, we make told to deny that there is any bread-tax at all Oh! but there must be, it is said, don't you see how our fellow-citizens down by the sea are compelled to buy dour all the way from Ontario, when they might buy it so much nearer hand, on the wharves of Portland, Boston, and New York? The huge talse assumption which underlies this bit of cophiatry has never yet been half as fully exposed as it deserves to be. If Maine, and Massachusetts, and Eastern New York had wheat of their own production to sell, then with some little show of reason might it be said that these ought to be the best markets for Nova Scotlans to

but flour in. But the Cour will in the last Attac c cities natured to made from Armosto wheat of far all growth-from wheat Proces raised on the prairies of Hillingis, Wiscon . 🤔 tion Declared opponents of the policy sin, Minnesota Iona, and Dakota- to m | Winesant ave bundred to a thousand infles faither of than the wheat fields of Ontario. It Week flour from there for of reglous can't sold at the real curd chenger than that are flour, It is not I. also geography bas the other. It alms to force tiptaries to decoled in favour of the former, for the buy Nova Scotla coal when it is for her | scographical facts are really in favour of stead, and similarly, it aims to force all, it can only be so through netificial Nota Scotia to buy tinterio thair when and not natural means—through railway rates favouring the United States at Canadas expense, for instance Cutario Is much nearer to the seaboard than the far-off Northwestern States, and if Ontatio flour costs more del'vered there than flour from Minnssota and Iowa it must be through anti-Canadian railway combinations, and from no other cause But does it really cost more? We say that it does not, and that the alleged increase of price to the consumer is wholly imaginary. Free Traders are bound to admit this on their own reason. ing. The prices of grain and flour on this side the Atlantic, they say, are fixed in the markets of Europe, where the surplus or this continent must be sold But if European markets govern prices in Montreal and Halifax, they must equally govern prices in Boston and New York, both Canada and the United States being exporters of breadstuffs. Or are we to believe that the effect of the European domand and the Canadian N. P together is to keep flour twentyfive or fifty cents a barrel dearer at Canadian seaports than flour of the same quality is at American scaporta? If they take up this ground, then they give away entirely their case with the farmers, and acknowledge that the agricultural interest is a distinct gainer by the National Policy And let it be remembered, here, that it is the insbion with Free Traders to represent the farmers as constituting the "bone and sinew of the country-three fourths or, pay for coal, if they do pay it, after all is soven-eighths of the whole population -only an insignificant number of our higher prices of produce because of the National Policy, they have no case, and are put out of court so far as the farmers are concerned. If, on the other hand they say that the farmers ket no Letter prices because of the National Policy. but even worse prices, as the Toronto Globe actually maintains, then what becomes of the contention that the same National Policy raises the prices of breadstuffs to the Nova Scotlans? We might ask, further, whether it is a part It for a tact...that the United States is a cheeper country to live in than Canada And agair, whether, if this be the case, it is not the high American tariff-so much higher than ours-that has made the United States such a cheap country to live in? These are some of the difficulties which opponents of the National Policy have not been able to most.

were & distribution contraction of the property of

TRADE BETWEEN "NGLAND AND FRANCE UNDER THE TREATY

Now that the negotiations for the renewal of the commercial treaty between England and France bave been broken off, and that there is every probability of the 8th of November, the date upon which the treaty will expire, passing without anything having been done to make new arrangements, leading journais are discussing the situation and comparisons are being made to show the advantages both countries have enjoyed under the treaty of 1800. The Bool and Textile Fabrics, a weekly journal published in London, contains the following statement in answer to the question What has been the result to both countries?

England Imported from France.	England Exported to France.
1870 - 4 (6,871,000	llome produce and Manufac-
19 1 1 1 1 2 2 20	Colonial (April Auril Au
1840 - 141, 30000	Colonial H. Keyino Colonial H. Keyino Home produce \$ 15 Majori Manufactures . 12 topos
Here are the	principal articles of im-

import -Importe 1900, Manufactures 14%. าาใช้เรียม กา.พูบบก Silk menufactures. Woolles Manufactures. Artificial flowers. Cleves

17,273 4.67018 1,351,786 Value before treaty 12185,845 Value after treaty.

19 C

So that whilst the agriculturies and wine grouers of France have greatly benefited, the manufacturers of France are now sending to Lingland hearly \$1 (80) of their month mure of their goods then they the latter. If the thing be estated at the case stand from the English stand- last created considerable excitement in all, it can only be so through mitiglial point? Here are the principal mineral mineral and manufacturing circles.

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Manufacture»	18.0	1001
Woollen manufactu.es	1 115	(3,160 H) (486 E)
Cutton	2 2 1	1, 031/61
Silkand thrown .	4 1 1 1 1	911, 114
Jinen Jischinery	100 115	183,63
Apparel	. Vien	261,000
llanware	: _ <u>124</u>	174,161
Value before treaty	0.6505	.73
Material for Manus-		
ltaw wool	$\tau = 950/10$	1.000
ection	Lastes	100 SE
Coals	118,108	124

Commenting upon the present aspect of the case the journal named says -

"The present position of the French Commercial Treaty as it now stends is far from unsatisfactory. The French Govern-ment see that we will not be dictated to, they see us falling back on the Grat and cardinal principle of Free Trade, namely, to have no treaty at all. To make any commercial treaty with France or any other country is a mere concession to their protectionist notions. At no time has public oriolon in England bean more manimous upon any subject. The country with one voice says. — Either a better treaty than that of 1860, or no treaty at all.! The French Government are this and are alarmed, and our tlovernment, if they act resolutely, may obtain for us a bargain that may be valuable to both countries in a degree for surpassing that of 1800 We maintain now, as we main-tained before, that commercial treaties when made must be regarded in the light of making a bargain, and we can only bargain satisfactorily with France when we will her plainly that, if she does not care to trade with us upon terms such as will allow us to sell to her as well as fo buy from ber, we will not bee tate to Increase our duties upon ber wine and to impose a duty upon bersilk. We admit the advantage of the Treaty of 1860 to both bargain of a better kind."

The Wool and Textile Fabrica is a Free journal in the United Kingdom is, but is not applicable to all circumstances. The reach Covernment has manifested a disposition to agree upon a new treaty sentations of English Free Traders have taken by them in adopting a strongly protective tariff was a blunder which they will be only too glad to undo at the eatliest possible moment. In reply scadera the position taken by the Government press of France has been firm, but respectful. While due deference is paid to the views of those who contend, that although every nation in the world should erect what the political economista call artificial barriers to free comdictation from England or loctures on States which may fully compensate us the folly of her course from English statesmen. If France has blumbered, policy inaugurated on the 8th of May fast prove to be as disastrons as the English Froo Traders predict, then it will be for the inters of Franco to reverse that policy Meantime, however, they are determined to legislate commercially in what they regard the intercats of France If they discover the existence of the possibility of England mosting " are with fire," to use a colebrated expression of a deceased Canadian stateman, they may be induced to give England "better terms," but so long as they are convinced that the English policy will continue to be I'ree Trade, regardless of the injurious effects that the tariffs of foreign nations may have upon her export trade, France will not so far as she is concerned, after her policy to suit English exigencies. That Some favour a policy of retailation, England will abaudon her Free Irado principles we do not believe, but that circumstances may arise to necessitate her taking action in self-defence is with are very pronounced in their hestility to the eastern section of the Domisiva Terin the range of future possibilities, anything savouring of retaliation for the graph Company will be the general man a and not a few Englishmen who are firm purpose of bringing the French Govern-

Figured-are expressible the orthon will be like affectly so or backing, that the time is equily approximation, will make progress ever the equ when such means will be torsed upon try and it will have been bed bring. the statesmen in whose hands to y is proportions by Petrtuy hast a placed Co facing of the ship of State.

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COSSO O DE COME THE ANGLO FRENCH COM MERCIAL TREATY QUESTION

The roing into operation of the new

iry. The treaty at present existing be-

each country will be at alberty to pursue its own course, as the negotiations so evident that having represented to
for a new treaty have fallen through.

The left bearty concurrence, I have been y
matter to the Covernment and receive their hearty concurrence, I have been y for a new treaty have indiced to the least of the liquid of Commons, on the 18th mitted to visit the North-West of the Commons of the liquid to visit the North-West of the liquid to th of August, Mr. Caive interrogated Sir CHARLES DILLE, Under Socretary of State for Foreign Affairs, on the subject In reply, Sir Chartes said that the French Government proposed some time ago to Her Majesty's Government that the commercial negotiations which had been begun in London should to resumed in Paris on the 22nd of last month. After considering certain new French proposals as to duties on iron, cotton, woollen yarus and goods, Her Majesty's Government considered that although still unsatisfactory they affordod a basis for further discussion, and they consented to the reassembling of the commission ou the condition that the existing treaty should be prolonged Never for three months, to give time for the examination of the new proposals. After a long correspondence the French Government declined to accede to a prolongation of the treaty, and under the circumstances Her Majesty's Covernment did not think themselves justifici in accepting the invitation to proceed to Paris. The announcement was received with cheers. In English papers just to hand we find numerous comments on countries, and it was made for the very purpose of showing this; but, having shown it, we are now epittled to ask for a The L'conomist, a leading financial journal, expresses the opinion that the announcement that the Government had Trade journal, as nearly every teading found it impossible to renew their nogotiations must cause regret but cannot It evidently believes that the principle excite surprise. If, it mays, " the French Ministry are agreed that there should be no enhancement of rates it is difficult to see why they should refuse the extension between the two countries, but the repre- of the existing treaty. It this is not the principle upon which they desired to falled to impress the members of the act further negotiations are useless, be-French Cabinet that the recent stop cause agreement is impossible. It must be our business to do all we can to open up new outlets for such of our products as may soon be slitt out of the French markets. And, fortunately, we have to criticisms of the English rice Trade | toady to our hands an instrument which may be used for the purpose with considerable effect. The expiry of the French Treaty will leave us free to deal with our wine duties in whatever way may seem to us best. An agreement similar to that from which France appears desirous of withdrawing both Italy mercial intercourse English policy is and Spain are now disposed to cuter to adhere at all hazards to Free Trade, into. It may be possible, by a teadjustit is contended that Franco knows how ment of our wine duties, to ensure a deto manage her own affairs without any velopment of the commers with those for any loss of French custom." The St. James Gazette considers Sir Cantus Bittus and demand too full and untuterrap so much the worse for France. If the announcement a very grave one, in We guarantee of the laws." must now therefore consider," says the Gazette, "the whole business of negotiation at an end, and English manufacturers must look forward to being remitted to the conditions of the French tatiff which will come into force on the expiration of the old and in the absence of a new commercial treaty." And in the same issue it exclaims in reply to some of its contemporaries

The Treaty's dropped "Rejuice ye wise ! It frees our hands," the m dant cries .-(lood pedant, take we been) Lest from closed mill, and furnace cold, And Idle foom we soon behold

Our " hands " set free indeed ! Of course public opinion, as expressed in the newspapers, is divided in regard to what should be done after the termination of the treaty in November. which, under the circumstances, they would not consider inconsistent with the Free Trade principle, while others believers in Free Trade—that is, Free ment to time, or Protection in the Indiana; J. F. Olmstead, of Washington rest of the world and Free Trade for Mannime the Pair Trade movement. rest of the world and Free Trade for Meantime the l'air Trade movement, trest

Parliament will probably more uni-

----EDITORIAL COMMENTS

its Wednesday evening of last a. . Sir A T Galt was chitestained at a b quet in Winnipeg He explained from h theneral Tariti on the 8th of May cause of life visit to Mentile in commercial and manufacturing circles follows -

in fingland. It is strongly protective in been for nearly two years as the representative of Canada, have been approximately that fact was sufficient to sentative of Canada, have been approximately that it is a sentative of the province o " Situated in England, at I tan ; ed by many of all classes from the high-to the lowest, who were desirous of the mation in reference to the North-West cause consternation in the latter counthis country I found myself obliged tween England and France will termi- uns country a mound myself obliged attempt to convey correct impressions of country of which I had no personal keen

Sit Alexander then proceeded to ; . ble hearers his impressions regard what he had seen.

Ix an article entitled " The Two ! _ Protection and Prosperity, the Chia. lournal or Commerce, one of the leading industrial newspapers of the Last States, thus refers to the case of Canada

" If we turn to Canada, we see anutiflat contradiction of the theory Don-protective tariff there previous. March 18th, 1879, industry was depresse langulating, and despondent. The precision protective protective and a heart year yet the improvement is rather increasing, and entirely satisfactor. Never before did the Uanada, enjoy so much of solid prosperity. Never here so much of those and non-protective tand there prestuat before was there so much of hole and exprise among the recule. Never beli wes there so much confidence in the futui These are facts beyond dispute, and it give the lie direct to the Free Tra theorists. In all the view there is no un of coming disseter to industry and business in Canada, every indication is of the intrary kind

The Industrial League of the Unit. States has determined to call a contintion of representative men who are a sirous of having the protection point. at present in operation continued and defended against the attacks of those or posed to it. The circular cathe Leagcontains the following statement -

* England's position has become so ! that an expansion of her foreign markauch markets open to ber merchagete-her people are new engaged in maturag a scheme of retaliatory duties, which are in scores or relation of quites, which are to be battered away in exchange for conesions. This method, bowever, is not a plicable to the American market—i.e most upsilent and the most depirable ma bet in the world—and the plan of atta-bet in the world—and the plan of atta-bers is one of bribers, subsidized presa-paid emissaries, lucal agents and all to means of Free Trade propagandum to the control of our elections and the relaation of our tand laws. Sogland in a extremity will loave no stone untured scoomplish the outquest of our markeand she must be resisted on prociries self-preservation. The time when American manufacturers, including every branch, from flaz growers to au builders, abould assert the dignity of the position as developers of patire issources, as the captains of industry, and w the creators of national wealth, strengt prosperity and safety. For many years they have been maligned as monopolist. traduced as bountied and privileged for the Government, and sugmatured as greedy enemies of the public welfare borne in silence, but should be so in longer Manufacturers should now assetter right to Protection, tanhold of threatened tenff agitation with outboar

NEW TELEGRAPH COMPANY

The next number of the Consta Ca will announce the granting of a chaiter the "Canada Murual Telegraph Copany, an organization which promises enter the field as a vigorous rival to it recently amalgamented Montreal-Homis companies. The capital of the new co pany is one million dollars, and fore to that can be learned it is the intention press forward the construction of the l as far as mossible this fall, and comp! the system-which will extend to er part of the Daminion-as soon as the f is out of the ground next spring line derstood the capital of the new enterpr is all subscribed and the first instalmpaid in, and that arrangements have be made with the new Mutual Union Ter-graph Company of New York for an inter change of business. The Mutual l'amthroughout the l'aited States and willte operation as a commetitor of the amelia mated lines about the 15th of thebe. The permanent officers of the Canada Mutual Company have not yet been a nounced, but it is probable that Mr. Chus It licemer, the present superintendent ger or president. The provisional dire-

NATIONAL INDUSTRIES.

, W. a. Hitel . Jens Itak Intelestanden bestind To a first operation with white is green and deadweall the first of the state of the s and an interest accord to the

W. H. Harnat is of the Victor | Oil West to vout roll Hand shirt street the street Level, and confine, with encour as adont one. He oppere quite chapate tea the finds to the a ne be need districted.

nd found in Capo Breton

il commencement of active operai heat the Novi Scotta Olass Works self-layed for a few lays on account of to working a tools not having arrived expected. Sperimens of the gladeat the works present a very time paratie The New Glasgow Chronh is intermed that the necessary mamery anilved by Wednesday's train d that the futmy is now in full 1 . 1

the lest signs yet discovered for the list-nee of oil in parting quantities are list Johnston a. East Lake Ainelle te operations are prosecuted under the issament of Mr. L. S. Longhead, of the 4n erican Company The celebrated to serve Butler and the other two direcmo the company taxo paid the localmy a visit, and expressed themselves as amently satisfied with its present | corports

for the Halifux one, after all. ulifax company completed its stock ist some months ago, and the committee have been ever since wrangling about the location of the works and ere not yet decided on a eltuation, alwithin certain limits of the city, providing the owners of land are not unhle and demand fabulous prices, bould any offer difficulty occur respecting the location we invite the cominy to come to Windsor, where plenty r good and desimble sites can be had at market prices. Water will cost nothing and the town will free them, from taxes in ten or twenty years.—Hail.

it affords us the greatest pleasure to anounce to the public that the Windsor totton Manufacturing Company is now in established fact. The alternations of topes and fears which have filled the miods of the citizens of this town and c enterprising business men of this county, respecting the future prospectty And or and the County of Hants presells have now given plan to the test assured feeling of confidence in a and future of material process of the we sail County For this is no sectional indertaking. The last strong blow which after a great deal of work and exditure of time by the committee, has last trumplantly faunched the good trade has been given by the enteriting solid, and practical business men-Nor must we forget to Martland ation the handsome ald given to this idertaking by that firm whose enterand growth of Hantsport. - Mail

YOU ALL NATIONS

a its larne of the 4th Inst the latera said cilitorially . A Protective of may be a good thing for one counr and a very disastrous thing for nother. We can authorille to this doct io. To what country would a Protecto tariff be very disastrous? me that Great Britain is indicated I til Protection should be applied there . it is here—if the comfort, welfare and station of the Ishourer should be made te highest considerations—we perceive by lanefit in the probable result the monarchical, aristocratical, and dictocratic institutions of the realm, with the laws of primogeniture and enwill by which land and wealth are conestrated in few hands, from generation " generation, prevent such an applicain n of the Protective principle. If the statutes of inheritance and distribution siould be radically changed, so as to transfer the ownership of the soil into no hands of the multitude, and the symple should be made the source of all ditical power, a Protective tariff would an inestimable blessing to Oreat Bile No doubt her exports and imports sould be contracted to a moderate volmor, compared with what they are now, 113, with a large enhancement of wages, demai consumption would be wenderof y angment of and amount, additionally, to several times the value of all the products sent alread in any recent

A prosperous and a contented nation increment the industrial and the form its late surence and contracts have increment they are; many dignitaries been closed for large deliveries before bould have to discount from their lotty. January 1st to be ready for blockados.

A vote in the constant of the L tour acts what had been a little of the survey of the surv in the first court could be estimated for the mount to give more true a denotation of the would be a first to make the court of the country to the first the second of the country to the distribute to the country A was in country world would below that some numbers of the source of the source

THE STATE OF THE PROPERTY OF

Prices Buoyant. Demand Off.

Charles to swit from a learn Illidadelphia September 1 the Acondensed review of the castern from h North Sydney H at the term and consumption were never more at 4 sources of micro of cold taken events balanced. Naturally there would so the discovered by the Rev be an increase in turn a couper, but it the McPhersen at Fuench Vale CB is temporarily ariested by the and that and entions are most promising. If at present prices the margin is not very are alleged that the newly discovered that the newly discovered that the newly discovered that the state of the in is some series feet in thickness list a score or two la would let in one m is some series in an animal a mean some or two in would let in one proquentity of the earlies what is called hundred thousand tous of freign from th interest, which is the tirst of the in six week. Cablegiams as late as Saturday show increasing formers abroad The proposal to replace the exopon immediately. It would seem that the tendency now is towards tumer Iron imports. Total piz imports at New York to Sept. 1 were 03340 tons as against 224,945 tons same time last year. There is just now a good deal of Inquiry after Custom House iron Stocks are less than 100,000 tons. The fact that there stocks carnut by replaced has ledto an active demand. Old ralls have been nearly cleaned up. Pig is very low Brrap has been bought up freely the holders are tired. Importante light indications point to higher prices all along Long headed l'ittabuigers said so month or six weeks ago, but few believed th To-day's quotations are as follows: No 1 F \$25, XX, \$22 50 th F \$21 50 to \$22 50 No. 2 Middlesborough \$19 50. Scotch, \$21.50 to \$25. Bestemer, \$24 to \$25. The week was rather quiet, and a There is every prospect of Windsor sort of tetall jobbing was kept up. If aying its cotton factory in operation makers had pig to sell and would promiso deliveries they could sell all they could offer, but they have not any to sell and are willing to risk long contracts except at prices at date of delivery. Light brands can be lead at \$29 at furnace

Buyers are in no say concerned. The market cannot vary thuch , nearly every one is provided for The fereign market is closely watched How prices can improve there with a 2,100,000 ton surplus fourth such is hard to understand autplus hero would wer a prices materially. Heavy adjudications on the continent are believed to have impartof the stimulus in British markets toware that he are treating an artificial prosperity to offset emigration and latent nthillian among the masses, and bence English pig iron stores legin to slowly melt. However, Castle Garden will be as lively as ever, and the Hartmanns will require ceaseless watching. The crumbs now being thrown to the millions in the shape of work will only whet the appetito

Since last letter the rolling mills have been quiet a tew days, but are now trying to make full time, card 2 5, stores 27. The advance has not been agreed upon and as long as 26 can be quietly had without increase of cost manufacturers will be content with it. Orders are abundant, but very few were placed last week because of the fact that buvers cannot wait on no days deliveries. New England consumers are very short and are in our market through New York commission men. Natis have suddenly become scarce and quotations are \$3.15. The stocks are low and mills factold

THE THE THE POLICY The capacity of the Eastern I can sylvania bable that in four or six weeks the needs of actual consumers will be provided for for the fall

Plato and tank orders are also in excess, and it is difficult to place large orders. Cooler weather will be an important factor. Whole days have been lost, and the output reduced 40 per cent for a week or so After October 1st new onlers will flust rooms, but there is very little capacity to sell up to January let. Quotations are \$3.25 for tank, \$33 refined \$41 shell.\$5 @54 for flange and \$4.764 fire None of the large establishments box. None of the large establishments which consume the output of mills have been able to use up all their iron this past week

Wrought pipes are active at 60 per cont. discount, tules 40

Sheet mills are sold up to January (st. and are refusing to lawk orders after

that date for new parties Steel rails are firmer, quoted at \$3800 One landred 60 for 1882 delivery thousand tons will be placed in foreign inills for New Orleans delivery, light section, within thirty days Quotations for foreign rails at Atlantic or Gulf ports, \$622664 Recent orders have gone abread for Chicago and San Francisco delivery. Demand seems to be increasing Iron raits are dult at \$17.50 old rails have exhibited greater firmness and are selling alonly at \$27 50@28. Scrap is firm for selected lots at \$30@32, machinery \$21; storo plate \$17.50, car wheels \$29. Coal is in activo demand and manufacturers are putting in orders would be the outcome of such a party. and manufacturers are putting in orders. The nobles, the landlords, and the for winter supply. Ore has not recruied form the late sulvance, and contracts have

THE SORGHWIST On Welm should but with a control finit, Calia tati fizio Cinco ecore in Luglant, was constant of ataching et in Withingory After explaining that his sister factors of a children with the consecution to the factors of the consecution of the factors of the consecution of the con the country would not go as a set of the Community of the respective of the country would not go as a set of the Community of the respective of the transfer of the country to a set of the country to a set of the country not be a set of the country not by a set of the country not be a set of the country not be a set of the country not be a set of the country o in | the same time it may be refer to any output the construction of the clause, that it does you carried the impressions the same times to the southeast, what we other other the construction of the clause, that it does not construct the construction of the clause, it is a south that the same is the objection with the creating the clause, it is to parties may say, I do not think that this my name should be associated in the construction as the objection with the creating the creating the creating the clause and fame which clause it is the parties may say, I do not think that this my name should be associated in the construction of the creating the self-shoes of the construction of the constr the Mother Country and other parts of the world it may be well to state them. When I armed in Winning from the south I will not inclining the road with the Red River Valley. It struck the as monotonous, and I thought that, however fertile it might be there would have to be a considerable expenditure in drainage When I reached Windulag I was at once surprised at the evidence of the progress which was being made, I may say daily, in this city. It was very different from the country i had passed through in the River Valley. I thought that surely the people were absolutely crease, or else invated stocks liere will not be acted that there must be resources of which I had no conception lying to the westward 1 thought that the enormous speculation in lands could not stand and could not be justified, yet the prices can up in the most wonderful manner it was my last idea that I should acquire any personal increase in the city of Winnerson of Laurehter's But Lerhand I cannot any personal interest in the city of Winning (Laughter) But perhaps I cannot sine a tetter it distination of the effect of what I have seen than the fact that I was entirely wrong in my first impression of the Province, and that I fear I have become a little speculator myself (Prolongued laughter) I had the opportunity after I had remained a day or two in Winnipeg, of proceeding westward. I had not time to make an extended a wist as I not time to make as extended a visit as I bad at first proposed. It was at first my intention to cross the plains to Furt Mc-Leod, and to return by way of Furt Waleb, but the time did not permit me to visit institute west than Fort Elince, whence I returned by way of Brandon and the railway. Any conception that I had formed was far surpassed by the reality. From first to last I have travelled over probably 800 miles of country. With the trilling exceptions of some and bills, while I saw an enormous proportion of extremely fertile land, I saw none which in other parts of the world with which I am acquainted would not be co-assered well worth cultivation. (Cheers) I had been prepared for a degree of munutony, for the appearance of prairie, for the absence of timber and fur a semented of the journey day after day, which would be tellous and disbartening in some respects. But the reality was entirely different. I saw a byautiful country, equal to the most cultivated. part of England, with grants slopes curer-ed here and there with plantations, but planted by the hand of man, but come directly from the hand of God The brauly rocily from the hand of God. The Dealty of the scenery is every respect fat surpasses everything I had any commution of. The fertitity of the soil surpassed my greatest expectations. (Obeers.) I was delighted, expectations (Obers.) I was deligited, not only with the appearance of the country, but with the extreme satisfaction which I found everywhere prevailing Wherever terms had been taken up, the new settlers exhibited a marked contestment, but until my return Id' not meet with one single individual with one a complete to make, either of the country or its plaint to make, eliber of the country or its climate. (Cheers) Now I do not suppose that the people of Manticoba are better contented with their lot than other people, but on this occasion there was no complaint. Those to whom I proposed a return to their formerhomes laughed in my face at the sug-restion to go back to Untatio to ferm after taying farmed in Manitoba. (Laughter and applause.) I have no reason to doubt that the country farther west is quite equal to what I saw I received the same description of it from all those who had waited it, and I have no doubt that as far as the Rocky Mountains there are successions of those tertile plains which shead
Structural shapes are active at 27 for angles, 33-10 for beam and 3½ for tees
The capacity of the Eastern i county by and multi-west terminal was more so far over sold. Orders are waiting acceptance, and it is protested that in four or six weeks the needs.

Successions or those terms plants which is an unust or rowed. (treat, heart, hear this country to the uses of man is the great question that we have to deal with. It has absorbed the attention of the farming the country state of the Domision; and my own personal duty is a connection with it. I have thought after seeing the country and the resources that are opening there, that one migot be able to perform a great and one migot be treated better and to country in Kagland and the Colonies shall be treated better and treated better and to country in Kagland and the Colonies shall be treated better and to country in Kagland and the Colonies shall be treated better and the country in Kagland and the colonies shall be treated better and the country in Kagland and the colonies and the colonies and the country in Kagland and the colonies of the country has ben approached by Parliament in two respects, the one being the mode of dealing with the lands, and the other that of opening these up by means of the railway system. I need not speak of the land system, except to say that it has been copied in great measure from the homestead and pre-emption policy of the United States, a policy which has succeeded there, and which, I have no doubt whatever, will succeed here. It is one which bas in great measure forced itone which has in great measure forced itself upon us; because, if we expect the populations of the Moiber Country and of Europe to come here, we must offer advantages equal to those offered by the United States. (Applause.) The other point is that of making the country available accessible by means of a railway system. As there is here so ayatem of saving the country and the maters than plains are watered. gable waters, these plains are watered unly by two or more rivers, which do not sufficiently answer the purpose mentioned, a railway system becomes a pressity. I believe that the Canadian Pacific Railway will become the backto e of a system reaching to all the extremities to which a

the trade of linnitum to this found before it can pass augment else. I have to congratulate you upon the energetic frogress gratulate you upon the energetic progress which has been made in the construction of this read, as it comes up large fertile districts to himpey, so that the progress of this city cannot fall to be very great in the fature. In these not in the future. It does not seem to me that there can be say other city in British North American territory which will compete with Winnipeg as a business centre. There may be some point business centre. I note may be sold point fatther west where a great city will arise, and probably there will be several of them; but for a new years to come the great proportion of the business must country, all I can do in England is to circulate information. This has been done on a least seat in Frieland Garmany. on a large scate in Eugland, Germany, Nurway, Sweden, and every other para where there are emigration fields. Still a great deal can be done by ourselves. It a great deal can be done by observer. It is necessary to have the co-operation of the Inhabitants of those countries that may desire to have immigration. I can in London unly, deal with the question of the supply of labor generally. A man comes into my office and asks if there is employment as a carpengr or a bricklayer. l answ r yer, no doubt lie asks where i cannot venture to say where, because there is no une to put me in possession of the facts as to the particular portions of the country in which labour is wanted. If you desire to have labourers at any particular point, it is most important that you should take stops to advise the agent in London of the labour that you wish to have I have mentioned this to Mr. Nor quay and other leading gentlemes, and believe it would be a simple thing for Winnipeg and other municipalities, from time to time, to furnish a statement of the kind of labour must in demand, that I might have specific data demand, that i might have apreline data to use in recommending people to come bers. This, I think, is testicularly true with reference to the supply of lebour during winter. At present I cannot undertake to secondend any one to come in winter, for went of this definite local information, for to many such applicants the failure to find immediate employment on their arrival here would be traught with consequences the most serious to them-selves and their families. (Hear, hear) selves and their families. (Hear, hear) Hence I must sak all lucal associations established in this tand to lend efficient help in this matter. They can do much towards pelping to systematize the bunished policy of the Government, from which he may all hopefully look for the best results. (Cheers.) In this tespect the people of Manitoba can, I am constinced, give must established assistance to rinced, give most rainable adsistance to their representative in Loudon. I am quite suie that in this work I will have the full co-operation of the Depart-ment at Ottawa and of their officials here (Cheers) I may, in some respects be going farther than even your own appreciation of the North-West Would lead you to do, out i am bound to ear that, as i view it, at this muosen, this question of the speedy settlement of the North-West has assumed the importance of a national character. (Loud cheers) You all know the depressed condition of the agricultural and trading interests of Great Britain at the present moment. But you may not all be aware that the attempts to negotiate a summercial treaty with France have tailed and the results of these combined effects is related to the condition of the conditio that the whole commercial system of England must be robered. (Hear, bear) I up, as to how angiand will deal with the trade relations of other countries; and this, let me say, is the opportunity of the Coloakos. (Loud cheers.) Undoubtedly, the food question is the great difficulty in the way of an Imperial Zoliversis. The whole firitish Empire is not at this moment as a wallent. an a position to feed the reopie of Magiand and bere you can see the great importance which the rapid settlement of this country has on the future of the Empire. (Cheera.) If this great country is felly developed—
if in a few years you can bring millions of
your fertile acres under cultivation—if
you can send to the old land great quantiyou can sean to the old lend great quanti-ties of your breadstuffs and produce, you will solve this question—you will enable the people of England to deal with their own people rather than with foreigners. (Loud cheers) And after what I have myself seen in this country, a doubt no longer I have myself seen in this country, a doubt no longer remains in my mind as to what the result will ameed in he (Paramater) self seen doubt no will apecdif be. (Renewed cheers.)
The sois and the climate to enable this to he accomplished are here—you only need the tillers of the soil. (Hear, hear) I can speak of those I have met scattered all

large construct what is known as the Canallian age. Chaines it is been that these are terminal that the point their exterminant into a work in which there was so in the interior in the inter think that k is time well gridge the trief in tall benefits on some lives, give you to work. As to the objection, the opportunity of doing great good to timen to one of the clauses, that it does your fellow-subjects who are not so well that fought not detail you longer, (Units or "go on a clear really said all that comes into my liears to eay, and i will only add that, whither in London or Canada, my test efforts will ho given always to serve my country with all the ability which God has given me Sr Alexander resumed his seat amids, loud and long contioued cheering.

DOMINION STOCK

(Hamilton Times)

Se Leonard Triler bas found a way of disposing of the surplus revenue which will not be required at present to implement for Hector Langevin's promises of new buildings. The Finance Minister decides to call in Dominion 5 per cent stock. Of late years the Dominion can borrow at 4 per cent, and if there are no other account hearing a higher rate. other securities out bearing a higher rate of interest the redempition of the 5 per cent, stock is eminently proper. This stock, resulting from accumulations in the post-office savings banks, is principally beld by Canadians. The investor could get cash for lus stock at par at aut time by giving three months notice, and the la-restment was a favourite one even belore the ordinary banks reduced the rate of inthe ordinary banks reduced the rate of the terest on deposits. Some of the bolders of the stock may find it difficult to secure so good an investment for their savings, but of course it would not be fair for the Fig. or course it will not be sure to be sance Minister to pay them must than the current rate of interest to oblige them.

The amount of suck to be called in it \$0.000,000, and the surplus resemus in band will have to be supplemented by the proceeds of a loan to provide for the redemption. The saving it interest to the Dominion will be considerable.

FAILURES IN THE DOMINION

The number of tailures in the Dominton during two first eight mouths of the present year is reported by Bradstreet a

Arrete. Linbilities. 1317.00 1317.00 1216.00 \$1,314,510 2,092,290 1,500,997 \$4,960,197

11: \$4,400,410 Total The actual assets, howover, were only \$2,711,320, or 54 per cent, of the liabili-ties. The number of feltures in Canada In the first eight months of the post three years was as fullows -

> t.eee. Arrete Liebtheiler, 25

1 0 4 21.012.50 \$21.07.214 \$3 G 2.417.10 7.227.82 47 41 2.731.30 4.244.107 \$4

These figures exhibit a most gratifying improvement in the condition of trade, showing a large and continuous ilecreasin the number of fullures, and a considenable increase, as compared with fact vent, in the percentage of assets to Habi!itles or insolvent tracers.

remains of the defenders of Playna. la which will be converted into manure by

counties with his far. It aml a capital of He had some knowledge of borticulture, and was a good junctical gar-dener. A capitalist who was the owner of some comparatively weeless land, contracted with this emigrant for planting and tonding 40 acres of this land in Australian gums or ouralyptus. breaking, fencing, planting and labour on the tand cost the owner \$3,600. At the end of the first wear he had 32,000 thrifty trees, and the second year he set out the shaded ground in justure, which retained its verdure nearly throughout the entire twelve months, showing a denser growth from year to year. the beginning of the third year he utilised his pasture for dairy rows, and found it strong enough to support two cows to the acro. He estimated its value for this use at \$4 per month per acre for eight months out of twelve, \$32 per year per acre. The total yearly profit from this source was \$1,280. At the ond of the eighth year he was offered in cash by the keeper of a wood yard 30 cents oach for his trees, or \$250 per acre, the purchasers to pay all the cost of cutting and removing the timber. The total value was \$2,600, but in the meantime the owner of the land had had five reaching to all the extremities to which a railway may go. I do not propose on this occasion, and indeed it would be quite improper, to eater into a discassion of the proper, to eater into a discassion of the Dominion; of mean policy of the Dominion of the proper into a discassion of the development of the constry—and when I see too, the the constry—and beausees greefally in this wonder in the part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country, from every part of the posture, which, by his through the country and when I see the splendid the proper of the posture, which, by his through the foundation in the posture of the posture, which, by his through the foundation in the part of the posture, which, by his through the foundation is the series and under the part of the posture, which has a country as a series and under the part of the posture, and under the part

SPIRIT OF THE COMMERCIAL AND INDUSTRIAL PRESS.

OUR IMPORTATION OF CORRIGK CAPHAL

tibe chareholder)

The legitimate employment of toronch expital in the development of Canadian resources is a thing to be desired. most all our wealth may be send to be as get in the crude state in which buture has alven it to us, and whileut them y to transform it into a more convenient and useful form it might lie as it has for controlles to come. This being the case. conturies to come. This being the case. It is plainly the duty of all statemen and friends of Canada to advertise her to the outside world in her true light name of the most promising fields of investment and creat enterprises in the world Wo have before frequently reterred to the Interest which Freuch empitalists have been taking in Canada, and the return of the Hon. Mr. Chaplean and Mr. School from their trip to France brings us the information that that interest is increased and destroyed, ingrather than diminishing. There are edifices, then pillaged and destroyed, excellent grounds for believing that discharged with more or less sucfunds will be forthcoming for the purcess the functions now performed by the measurement of our C28 union works. any fair opportunity for the disposal of that road for a just equivalent in cash, we think that they would not be consulting the best interests of their consti-tuents. There can be no possible doubt but that the railway could be managed with greater advantage to the Province by a private company than when under flowernment supervision; while the pro-ceeds of the sale would do much to clear up our financial difficulties. Mr. Senscal reports that Parisian capitalists are also prepared to furnish the money for the construction of the South Shore twonel under the St. Lawrence at this city. and for the working of the new Blectric Light Company. Our integral resources destruction by fire, that it was combined fixed but ins. With the increase in are also receiving universal attention, od at the latter date that there was no would and comfort has coincided a ther from deposits are to be examined tato, and should the result be favourable. as we have no doubt it will, stops will be taken to work up a substantial production of Canadian iron. The phosphato deposits of the Ottawa, which, within the last year or two, have prung into such importance, are also to be more vigorously developed, not only as a manure for exportation to Europe, but also for the manufacture of aulphilirle acid and superphosphates, for which factories will be erected near the mines. This is not all mere talk, for delegates from France will visit Canada shortly to report on the prospects of the success of those undertakings, and we are perfectly convinced that it only requires an impartial examination into the resources of this country to convince European capttalists that Canada offers a field for monied enterprise as extensive as the United States, if not more so. The idea of introducing additional capita Into reliable Causdish companies already formed, as foreshadowed in these plans, is a good one, and will do wonders to atimulate our own native enterprise The Parislau capitalists are foremost in the present movement, but those of other European centres will not be tackward in following their example. Engitshmen are a little abashed by their early experience in Canadian reliways, but they will not be long in realising the advantage. of having a hand in opening up our mining resources.

A CENTURY OF PROGRESS

Ct. James' Garotte.)

The vast material progress which has Leen made by England in the century dating from the perfection of the steam engine has been accompanied by a moral progress which, if less palpate, is yet apable of being in some degree measured. On the one land, the means of moral, intellectual and religious instrucother hand, petiperism and crime lave with the above named contribution of diminished—not only in proportion to the clergy, an aggregate of £4,07,252 the numbers of the population, but even

in their actual provatence.

In 1849, the first year for which we have complete returns, the mean number of paupers of all class s, including chitdren, at one time in receipt of relief in England was 1,985,020. The estimated population for that year was 17,571,744 Thus, and of every 175 souls, 10 were jumpers. In 1889 the population had risen (by the 1st of April, 1881) to 25a 798 922 souls. The paupers in receipt of relief on the 1st of January were 803,126 being 10 paupers out of every 323 souls The actual decrease had been 28 percent, and the comparative decrease 50 per cent. With regard to the actual expenditure for the rellef of the poor in 1849 it was £5,792,963, or at the rate of nearly £5 8s per peuper. The last annual re-port of the Local Government Board is ellent as to the fact that in 1879 the expenditure for the same object had risen to £7,829,819, or £9 16s 6d per pauper. In spite of an increase of 47 per cent. In the population, the charge per lical on the contributors for this portion of the poor rates alone has only sunk from Ga id per had in 1819 to 6s. 23d. per head in 1879. To some extent this difference in the allowance for each pauper may represent the change in the value of money; but that can hardly account for an advance from £5 4 to £9.75 It is by no means certain that the country has to be congratulated on this advance; but it certainly represents a very great increase in the efforts made, whether wisely or otherwise, for the re-Hel of pareir.

the reduction in their number has been must be immense. For he spitals and sentent that it we assume that the support of spitals in the spitals and classical that the spitals in the spitals in the spitals in the spitals of the spit

of poverty and crime shall the lighter church. In the year 1704 the number ences of sects and a look have by no of livings in England and Wales was about 11,700; as to the condition of Henry VIII, in the last years of his and fanaticism, whether amidst the Putireign, put an end to 186 of the larger tan, the reactionary or the athelate monasteries, 334 of the lesser sort, 110 camps. The only explanation which it teligious hospitals, and 2.314 chantries churches, colleges, and hospitals, being above 3,500, little and great," said Bir Henry Spelman, "did amount to an in-estimable sum, especially if their rents be accounted as more improved in these daya" Is is after the sui pression of the monasteries that we hear for the first time of the question of the State support of the poor, and of the subsequent levies of poor intes, steedily rising in amount from £0,000,000 in 1840 to £12,913,000 ln 1480

od at the latter date that there was no lantul method of founding a new church belonging to the national rito without on Act of Parliament. But from the year 1818 to 1831 266 new churches were consecrated, being at the rate of 28 per aunum. From the beginning of the far great r bear century to the end of the year 1875, according to the report of a committee of that ever lived convolation, 4,414 churches had been consecrated, of which 1,015 were rebuilt, and 3,399 entirely new A later return to an order of the House of Loids states that 1.724 churches had been built, and 7,144 restored at an outlay of not less than £500 each, since 1840 The returns were by no means com; lete, but they kave a total of £25,548,703 exponded on 8,871 churches. A sum ex-ceeding £740,000 per sunum has been contributed by members of the Church of England to the restoration and incicase of their places of worship since the year 1840.

In 1831 the number of benefices in

England, according to the report of the Ecclesiastical Commissioners, was 10,-718, the aggregate income of which was ings had increased, by the division of perlahes and the foundation of fresh endowments to 13,617, the Income to £4.547,244. In 1831, 5,947 personages were returned as habitable, 1,728 benefices had giebe houses unfit for residence. (No 1,920), the sum of £3,228.959, or more than £64,000 per aunum, had be n expensed by me clerey in providing come nor themselves and their successors the amount having been advanced to them for that purpose by Queen Anne's Bounty, to be repaid, with interest, in thirty annual in telmouts Through the hands of the Eccl -lastical Commissioners the Governors of Oues of Annes Bounty, and the Charity Cominfasioners, the sum of £5,468,293 lias dowment of the church by private beneain∞ 1930 making tirk Cilies This is independent of the application of £18616,000 to the benefit of the poorer livings at the expense of the richer, and of capitular endowments. by the Ecclesiastical Commissioners. It is exclusive of the endowments granted by the Governors of Queen Anne's Bounty and by the Charity Commissioners from funds provided by their Acts of Parlis-This the amount of more than 29 millions sterling, making, together with the before cited contributions to the building fund, a total of more than 54 millions sterling, has been added to the pernament endowment of the National Church with-In the fast haif century. No estimate exists as to the very large and constantly growing revenue derived from the weekly offertory, but In many parishes this almost equals the regular income of the incumbent. It is thus evident that the effective character of the church as an cilurator and as a rollever of the poor has undergone an increase within the contury such as is not unworthly of the increase in the material wealth and com-

fort of the people. to 3,768,147. The total expenditure for primary schools in Great Britain in 1851 was £164,312, in 1880 it was £2,378,857.
If to those items, the accuracy of wh Is vouched by the returns of the Board Mr. Cobden's predictions have been Under Protection America is accuof Trade, he added the coormous volume constly falsific in regard to the exchange unlating annually £165,000,000 sterior free and numelstered contributions to

With regard to consistions for crime religious and so ist charities the total and the United States. He took it for Under Protection Prancips the reduction in their number has been must be immense. For he spitals and a randed that it was longist largely from lating annually 270 minorals evident.

is possible to ouer of this increase of the past century is to be found in the general elevation of the people in material comfort. Nor is there any reason to suppose that the great increase of the population (had it occurred) would have lod to this increase in wealth but for the steam engliss. When men yoked the liorse to his service, he commanded a mechanical power that is at least elghifold that of his own unalifed strongth, but which must be exercised under very nearly the same conditions as human toil. But when he learned to employ the mechanical power of heat, he not only reduced the cost of work by nineteentwentieths as compared with that of torse power, but he rolled back the From the death of Henry, or at least limits of a good and of augmentation of from that of Mary, to the year 1815, the power to a distance as yet undeto infeed, building of a church in England was so from that flour commenced the steady rare an occurrence, except in case of increase of the material comfort of civilmarked do re-so in pauperism and in crime. We can understand how this should be, and we can understand how We can understand how this the future distories of England will point to Watt, Dalton and Stephonson as far greater benefictors of the human race tean all the statemen and politicians

> PROTECTION GAINING GROUND IN ENGLAND

> > (New York Sun.)

The events of the past week make it plain that the reaction against Free frade principles is acquiring great momentum in the industrial centres of Greet Britain The Conservative candidates, Mr. Lowther and Sir George Elliott, have been elected in North Durham and North Lancadire, and although the result is due in some measure to a tr hafer of the Irish vote, it is partly owing, a'so, to the commercial policy advocated by those gentlemen. Another 718, the aggregate income of which was sign of the times will be recognized in £3 251,159. By 1830 the number of live the current number of the Leaden Querterly, which comes out boldly in farons of reciprocity. This action on the part of the weightlest Tory organ, viewed in connection with the series of political incidents which began at Preston in May that with this election of Mr. Ecand 2,878 had none at all. Between royd on a "Fair Trade" platform, may 1830 and 1880, according to the Budler be taken to prove that during the coming twels month the tattle of Free Trade will have to be fought over

again The demand for reciprocal, equal, or retaliatory taritie, unifer all which wames the agitation for can Trade Las been described, has received a great impulse from the refusal of the French to renew the Colulen treaty, and the announcement of their intention to introduce a new scale of duties on English goods It appears that the proposed increase been contributed to the permanent on- ranges from 7 to 200 per cent, and on most cotton manufactures averages 150 This will be a i gricyous blow to British millowners, who have already lost so leavily through the imposition of a protective tariff in Germany It appears that Manchester alone exported to the German empire la 1872 cotton yarn and cotton sabrics to the value of hearly \$20,000,000, whereas fast year the amount had sunk befor \$6,000,000 In 1872 Bradford sent to Germany wooflen and worst-d goods appraised at 543,300,000, while in 1880 its - sports to ing off in the exports to Germany, as well as that which is threatened in thcase of France, cannot oully be reconciled with the prophecies of Mr. Bright and other Free Tradors, who have for rears been assuring the British people that Protection was constantly growing weaker on the Continent. In these illfounded assurances they were only echoing Mr. Cobilen, who was thoroughly convinced that Free Trade would soon become universal if only England would set the pattern. "Adopt Fro-Trade," he said in 1846, "and to ere will not be a tariff in Europe that will not be changed in less than five years to con-form to your example." In the same year Sir Robert Peet told his country-Furly, we have to look at the in- year Sir Robert Pet told his country.

crease of education. The number of men that, "Your example will ultimate. children present at inspection of the iv prevail. I see symptoms of it Under Protection the commerce of primary schools of England and Wales siready." Thirty-five years have now Hulland and Bolgium, of France, of Gerin 1856 was 410,904, in 1880 it had risen passed, and all the symptoms point to many, has increased respectively 57, 51, such an extension of protectionist prin- and 30 per cent.

> export incla.
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> Mr. Cobden's prodictions bave been commodities between Great Britain ing.

ciples upon the Continent as to threaten

Wat - of who 121 579 were consisted. places a worship schools and ministers nation, while they at fined to take are accumulating in less the contributed had sank to 14 set former. Cathelics, Jows and miner manufactures, we are much as to my that The and the convictions to 11 21;—the sects — to returns an excessible. It is they would give her their can be nothed and the being hearly one-last. In thus all to attempt to estimate the ing. But, as it is pointed out in the the ermer year there was a coming money also of the superior destinations of the transfer of the popular is a three electrical transfer of the popular is a three electrical transfer of the latter. There was only one of the total three electrical transfer of the experimental tr for every 2500 souls. These numbers. For the flow of this great volume of oak to be paid for its countries. It is. From Trade England imports of apply to Empland and Wales note.

It close countries with the statistics possible to the list entry can be senting. In the list of the li I No discovery has two made in the valued at \$150 000,000 whereas its which denote the diminution or the in- ment science. No new resolution has exports were not worthmore than \$115.crease of the educational power of the been unnounced in r. licens. The differ- purpose. A large part of the difference outpoin. A large part of the difference fetween these imports and exports list. means diadulated. It some of the more to be paid for out of the luterest on the Ignorant and familial of the old sects \$10 000,000,000 which it is estimated either churches at personages in which have stmost dissipated there has been. Buttah ambjects have invested in Ameri-we are without any reliable information in odimit ution in the vigour of ignorance can and other foreign bonds. That Henry VIII, in the last years of his and fanaticism, whether amidst the Paris- tirest Britain should be able thus to meet while it proves indisputably that Great liritain is a rich nation, but not that it will continue so We should guard also charity and this decrease of crime during against the error of assuming that all the imports into the United Kingdom were in the shape of raw material. Even the Economist, whose adherence to Free Trade principles is well known, admits that last year foreign manufactured goods valued at \$200,000,000 were introduced into England and sold in direct competition with her own fabrics. Other good authorities, including the chairman of the Bradford Chamber of Commerce, estimate the annual value of such imports at fully \$350,000,000. Those figures demonstrate that the products of countries which afford protoction to home industrice are beginning to vie with English wares, not only in foreign markets, but in Rogland Itself.

It is significant that the clamont for reciprocity is now heard from the very industrial districts in whose interest rotection was originally abolished. Mr. Scroyd was, as we have said, triumphantly clocked at Preston, although the fasue was distinctly drawn between him and the Free Trade League, and although be plodged himself to vote for a duty of ten per cent on all articles of foreign production, except the raw materials of manufactures He contended that a duty on American wheat would not cause any appreciable advance in the price of for ample supplies, he thought, could be procured from Canada, whose grain he would allow to enter duty free. It is a fact that even a small duty on wheat imported from foreign countries would add considerably to the British revenue, for even the old duty of a shilli-g a quarter, which Mr Lowe remitted brought in about \$5,000,000 a year, and the remission did not affect the price of broad at all It is not pretended by Mr Ecroyd and the advocatos of tatiff repris-als that any duty likely to be imposed on American grain would enable the English farmer to grow wheat at a profit. But they propose to help the British agriculturist and manufacturer another way, namely by remitting all the taxes which, in existing circumstan-ces, are imposed upon them

THE TRADE OF CANADA.

Latil the full returns have been made public it will be impossible to accurately determine the progress in the trade of the Dominion during the pest fiscal year, but from the monthly returns of imports and exposes published in the Canada Hazelle, thich do not however, include the figures for British Columbia, we can arrive at an approximate estimate of the extent of the trade of the country. The exports in 1880-81 were the largest in the bistory of the flominion, reaching cluse un to une bundred million dollars in value, and the imports will exceed somewhat ninety millions of dellars, so that for the second year in succession we shall have an every of expets over imports fur one of Quebec, which were part of the imports in the previous fiscal year that excess of expets over imports for one of Fembroke:—License No 92, of 1811 and pumption amounted to \$16,120,000, and in comprising 50 equate miles license the year just closed the excess will be in the neighbourhood of \$8,000,000. The ingabourhood of \$8,000,000. The ingabourhood of \$8,000,000, against \$80-81 was shome \$200,000,000, against \$80-81 was shome \$200,000,000, against \$80000 \$1879, an increase of nearly fifty suitting dollars, or about 33 per cent. In the birt period of two years. This anormous recureration of trade is a splea
should suite the state by order of the executor the category of the executor that the state by order of the executor that the state by order of the executor that the state of the same year, which has a polen
should suite the state of the same year, also comprising to with a same year, also comprising to the same year, also comprise the property of the same year, comprising to the same year, comprising to the same year, also comprising to the same year, also comprising to the same year, also comprise the same year, and the same year, also comprise the same year, also comprise the same year. did evidence of the vitality which has been infasted into the commerce of the country since the new fiscal policy came into of ration, and while all must recorand the pert which bountful barvests ber have played in effecting this result, there can be no question that the co-operation of the National Policy has largely contributed to the great prosperity the propts of Canada are now eajoying. Montreal Genetic

FREE TRADE INDICTED

The following are among the facts to which the attention of the British public, has already been called by a thinker who looks on the present occurring ideas as pernicious blunders :-

Uniter Protection the commerce of the whole world has increased 36 per cent. la ten years.

Under Protection the commerce of the United States has sucressed 64 per cent. in the same period.

Under Pres Trule the commerce of the complete extluction of the Beltish England has increased 21 per cent. In ten years.
Under Protection America is accu-

Protective America new experi than she imports.

Protective France imports support L't,000,000 mote than she s xport. In

Froe Trade England imports more

Wages have risen more rapidly () pe partion in protective Frome, It by a and America thun in Free Printe tre fand, and, what is of infinitely more importance, employment has been shed and continuous. The position of the operative under Protection in America is better in every respect than the po tion of his mate under Free Trade

Operatives from all parts of the woo flock to America, the land of Protection not one ever comes to England the of Fico Trade.

THE FIRET OF WHEAT SHIPS

Lloyd Tevls, in his recent article to before the liankers' Convention of Sala toga, retimates the amount of when available in California for exportattà close of the present harvest, at 1,400 814 tons. The average cargo of wheat ship dors not exceed 2,000 tons. This retinate is rather large, but if it is to b taken as approximately correct, it will require a flect of 700 ships to carry ava. the surplus. Charters have been runnis. from £3 to £4 per ton for wheat cargos Every ablp which gets a cargo at rith-of those priors—and most of the charter approach the extreme figure—is cottler money. There is probably not anche city in the world of no more population than San Francisco which is to-de furnishing as many profitable ship its ters as this. The bulk of the grain we be taken away in foreign bottoms its this cannot be helped. Moncy here an abegging at 5 and 6 per cent, and groat doal has been louded at ice-rat A modium sized wooden ship will par the cost of construction out of two br. charters to Europe at the present rion rates of freight. There is an abundan of the bost material for shipbuildire If fifty California built ships of 152 tons were now in the market for the ten overy one of them would probably a taken up. The 700 grain abija, non a leas, will come and go during the pressa-year. They will supersent the best con mercial fleet in the world. The majori of them will be from ships. All of the will be sailing vessels. No steamer in will be sailing vessels. No steamer in yet departed from this port bound to Rurning by way of Cape Horn with a sign of grain. This is the atronghold of saing ressels. The steamship goes from England to China by way Canal for a return cargo of tea. Th l'anama Unnal is a remote fact, if coi a all, though not an impossibility. Th wheat drift by rail to New Orleans asthence to Europe by steamer, is theoret cal. One practical test will be worth dozen therefor At present we baret do with the fact that a first of about 75 ships will be required to carry the aid plus grain away from this State, and the not over one-third of the area suitfor wheat has ever been brought unde cultivation -S. F. Bulletin, Aug. 15

SALE OF TIMBER LIMIT

Thursday afternoon, at the fira-Union Hotel, there were offered for oy Mr. James Brower, acctioneer, th following valuable timber limits site attains the Black Iliver, in the Proinco of Quebec, which were part of t. Doran. Besides the limits above specfled, there was also a farm of about to acres of good land on He are No and a considerable quantity of store including about 50 tons of good bay It had at first been intended to put if property up in lote to suit purcose but at the time of the sale it was dete mined to put up ea blee, the purchase to take the stores on the ferm at valer tion. The terms of the payment wer 10 per cent. cash, the balance in firdays, or 50 per cent. of the balance i fiftuen days, and the remainder to . months, with interest, at 6 per call added. The attendance was large, for a time the competition how It auctioner announced that no bids re der \$500 would be taken Mr R Onemick, of l'embroke, started them! \$10,000, which bid was doubled by N Alexander Praser. Pire hundred & lars was added to this; then came a te ot \$22,000, and from that the figure rapidly ran up \$1,000 at a time est. \$36,000 was reached Here there we a short panso, and they were the slowly \$500 at a time until kee.to down to Mr. T.W. Marray, of Peakers. At \$38,000 - Citiera.

Go to bed at night and sleep, lea your business where it was when yo come away from it, t'll the next d.

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WEEKLY REVIEW.

Tokoxro, Sapt. 13tb, 1481

The fast week has been an unnaughte busy one for this city, and the amount of Dur Industrial a hibition is a most complete success, excepting it, the machinesy department, which may be con-sidered a failure for want of exhibitors of citier wood working or fron working machinery The explanation of this every important omission is that the inabilitation of these confearouring to catch up to their orders that It has been impossible for them to make any exlabit, their customers being in agrent fixed of the machinery. The display of tweeds and cotton and woollen goods to simply magnificent. A new company, the Hamilton Cutton Company, who are represented here by Winana & Co as sole agents, make a very time exhibit of cotton warps, for which they receive a allver inedal

Day thoms - Trade is very active The city is full of tuyers, who have taken advantage of the Exhibition to purchase their fell girids. Merchanta are lighly pleased at the amount of business doing and at the prospects aread. Payments are reported as very

satisfact ry
Stor 4-The stock marriet has ruled very quiet during the past week, but prices have been generally well maintelned. In bank stocks the fluctuations have been very slight. Imperial and Standard are each offered 1 lower, and have also suffered a decline of 1 in bid The remainder of the list is very firm, with an upward tendency for Hamilton I higher is bld than tast week. There were no transactions reported to-day Ioan and Savings Companies - There stocks generally are very firm, the only one on the flat showing any tendency to tall lack being Building and Lean, which is offered 13 lower, and bid has declined 4; Canadian Savings is offered at 133 without bids, Farmers' Loan at 131, and Huron and Ericat 1554. the latter being a decline of 11 since last week. Western Canada is 1 highe. last week Western Canada is I highe. in bid; Union Loan I higher in bid, but field 3 bigher, Manitolin 1 higher, several of the remainder of the list have advanced I in bid, the balance unchanged

GROCERIES -Business is very active consequent on the exhibition. Teas and sugare are very firm, the latter showing an upward tendency in prives. Granu-lated has advanced an and the rest will be proportionately affected. Payments are reported very satisfac-

HARDWARE -There is great activity being displayed in this trade, and in order to keep up with their orders houses are obliged to work night and

Dat on -There is considerable activity being shown in drugs, and many articles are firmer or dearer in prices. The following show an upward tendency, viz., oplum, castor oil, oll lemon, oil savafras. olt winter green, cubels and Canada leisem.

PAINTS AND OILS.—An active trade is doing. Liusced and last ofware dearer and spirits turpentine and varotenes are much advanced.

Wook-Tre combing fleere market continues dull and spiritless, with few or no buyers. Holders of country lots pur-chased last summer at 25@260 bave come to realize the dulness of the market, and the probable effect of the enermous surplus of these wools, and have been glad to dispose of their wool at Everything indicates that buyers' judgment was sound, as there is no prespect of better prices later on Combing pulled of course sympathizes, and while it is held at Zimizza; among an community of Free Trade are necessarily conferred not over 20c f.o.b. The demand for fine at haphazard. Sometimes those who are already tigh get richer by it, while some already tigh get richer by it, while some and if anything a bardening tendency is noticeable. Super and extra are chiefly wanted, but as the home pull will now be getting longer the demand must be supplied from abroad, and those qualities caunot be imported at values current

Hinra avn Seina - Hides continue in light supply, with an excellent demand and prices are firm at quotations. For sheer skins there is a very active demand, all offering being readily taken at prices quoted Rendered tallow is very scarce and wanted.

PRODUCE.-The flour and grain markets have been very active during the past week. The speculative demand was brisk as well as a strong demand to fill onless. Farmers seem inclined to sell wheat very freely, as deliveries are much larger than is usual at this season of the year. There have been larguestee at prices ranging from \$1 32 to \$1.34 fa.b for both fall and spring, the former taken principally for export. Rarley begins to move treely and all offered finds ready purchase at 85c for No. 1 and 78c to 80c for No. 2. Very few peas of the new crop have as yet been offered. Onto are in good demand at from 42c to 43c.

The United States consul at Samia has issued an earnest appeal to the people of Canada for aid for the sufferers by the recent disastrous forcet fires in Michigan, hundreds of whom, he says, " who intely escaped with life, are rendered helpices and dependent cripples for the remainder of their days." Contributions Contributions of money, clothing, hedding and provis-ions are argently needed, and may be os mills centinue to of money, clothing, hedding and provision are negonity needed, and may be transformation of industry—was turned are determined to error te the item. S. C. Carlton, Mayor of Into the production of clercy goods; and 47 and 48 KING WILLIAM ST. I've Have Mak.

BRILLISH PROSPERITY AND FIx- countries were not somelent to keep CAL LEGISTATION

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The considerations which we have urged than time to time in our schurks. men the condition of British Industry trade and production have to a plain struct economical theory and obvious. We have not said a word to condition or question the abstract has done something since 1860 for our and obvious. We have not said a word to condition or question the abstract theory of Froe Trade, we have never argued for an exclusive exstem of reciprocits, and still less for universal refaliation upon Pretectionist mighilactive Our contention is that these general terms, which are nowadays mostly used to save the trouble of thinking bave annulled neither the resources nor the mote then ever the province of our publie men to do their utmest in preventing the markets of the whole world from being shut against our productions And Inasmuch as the assumption on the other slife is that Free Trade is autodeu and I'eel, we have striven to bring into clear light the fact that the expostations on which the existing fiscal system of this country was founded have been almost wholly disappointed It is an absurd way of dealing with this line of argument to suggest that

although I'cel and Colden have litherto proved quite wrong to their previsions and calculations, they may yet prove to be in the right on some day before the crack of doon. Very probably they may If the vision which the modern poet new shall over be realized, and if a "Parliament of Man" shall ever be found togislating for a "Faderation of the World," it is possible that absolute Free Trade will be imposed by law on overy State of that gigantic Federal Union But the conversion of the mations which Cobden expected was to be xtremely rapid, if not quite immediate The day of the economical Pentecost had come Peel, as we have pointed out, actually told the House of Commous that he could already discern signs of the extinction of the old blind faithe And the reason why Colsten and his companions in agitation had this belief which Peel in his usual hurry of imitation berrowed from them was that it formed part of a great body of consistent belief. The constant opinfour of Colden were that wars were soon to cease, that the warlike spirit was kept alive in Europe chiefly by the influence of England, that nearly all other countries were wiser than his own country, which in all international matters had been uniformly in the wrong. Now the secopinions are closely associated with zeal for unqualified Free Trade, and it is exact because they have proved to be he is a test the area of Free Trade has been as steadily contracts were repealed, and at this moment they hang loosely on the staff. The fact is that what militates against the extension of Free Trade is nationality and every thing which goes with nationality. Comnumities which feel pelde in themselvesin their powers, their characteristics, and their history—which is now common outside Great Britain. will not su! mit to depend on neighbours with whom they may have a difference any day even for luxuries, much less for food, which is life. And the concentration of interest

in themselves which distinguishes modern societies has the effect of making foreign statesmen distributful of Fre-Trade. For they have to do their best that national prosperity be apportioned ever, or one class suffers while another prospers. If we could say (which we cunnot) that the British manufacturer is prospering, what are we to say of the British termer? Trust to second political economy, says the English theorist But this so the foreign statesmen.

The practical question we have suggested is whether, if what was coming had been forescen, the present flecal aystein would have been introduced as it was-that is, without moderation and without limit. For the effect of this intemperate legislation was, as we have repostedly shown, to deprive British statesmen of their principal weapons and tools. Nevertheless, on the only occa-sion on which Froe Trade made a real advance, the feat was achieved not by the persuasiveness of sound doctrine, but by diplomatic bargain and sale There is a sort of impression abroad that when Cobden negotiated the French Trusty he went and presched to the French people just as he had harangued the lititish mob But France was then under a trianny; and Colsien obtained a measure of Free Trade from the despot (who no doubt had a languid preference for it) by paying him a bandsome con-alderation. The French market was in z ality bought for us Ly an abandonment of a great part of the revenue from the wine daties. The actual fact, then, is that Free trade has by its own inherent recommendations simply made no progrees whatever outside this country. much larger part of the labour and capital of Great Britain than before I but a mante and mails from actions of prints

these goods out litt the larger against them has always been progressively raised wherever it has not been attificially kept down by specific bergains with torcien States or, in other words, by acrangements wholly independent of at-

national prosperity, the mere application or atrict economical theory has done in-tinitely less for it than its zealots allow or perhaps suppose Vinety-nine hus. dreiths of the snormous increase of ou trade during the last hall century at due to the application of steam machinery in a thousand ingentous ways—from lutter of statesmanship, and that it is the propelling of ships to the shatpens ing of pine. We pointed out the other day that this country has set to work a power equivalent to the force of seven and a half millions of horses. We consumed coal to the value of 2:0 millions sterling in 1854, in 1880 we consumed matic and self propagating, and coal worth 500 millions likelies such leasmuch as this assumption rests an instrument of the production of almost entirely on the authority of Cob- would the in incree of all merely fiscal coal worth 500 millions Beside such regulations fades into insignificance We have been prospering through our coal just as Eastern and Southern France prosper through their sunshine But then there is this difference between the situation of the countries we have named, and also between their Ideas We sell our stores of artificial host to whoover will buy them, the Frenchmen of Clascony and Champagne cannot sell the natural warmth of their sun, and oven if they could they would not The result of making away with this part c: our national capital has been to creatthe very competition which is so ruinous to us. Coul from British minesand, we may add, machinery from Brit-ish workshops-produce the very commodities which, independently of foreign tarifis, are entering into rivalry with our goods in all foreign markets. Only the other day a great part of the cotton manufactured in Normandy and French Flanders was made by the hand loom. now it is worked up by British machinery moved by British coal British coal, In fact, in the aliment of almost every hostile industry in the world. Brenthe Indian mills, of which we have licard so much, feed their furnaces with imported English coal. Mr. Cross, who cannot be suspected of eatility to Free I rade, specified the other day an export duty on coal, together with an enhanced duty on wine, as at any rate a natural measure of retaliation on the countries which are making war on our manufactures. The riticulous reply has been made that such a daty would encourage the production of coal fu France. Blind faith in Free Trade has apper utly gone so far that every comptry la amproved to to able to produce every article of use at pleasure. Every hody, however, who has the least notion of the Frem h cost fields Free Trade has been an steadily contracts in transmitted in the Freeze a contract ing thefore the part's "Farlament of is aware that Frence can no more in-blan" undertook the functions assigned crease the quantity of here at than she to it, the "battle flags were furled" can sell her aushing, there is, in fact, This is just what they have not been in not a single country in hunge, except, real life. They have toon flaunting perhaps, Relgium, which could manualmost always ever since the Corn. Laws. facture profitably on a large scale with-out the help of coal from littles mines

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RAILWAY MATTERS.

(Tarte Mail, 126)

Yesterday, Mr. Duncan McIntere of the Constant Earlin Earlins, Mr. O. (What will be the result or your flose, of London, Eng. son of Sir Jehn Rote, Mr. Chas, Castels. Mr. Hugh Mec. Well, we expect there will be from Wanning west on the partie windown by special car from the West. The members of the party Lane bear on a treat in, and a bundred miles further tour of inspection or the Canadian Public west graded ready for track-laying. The Hallway line, and have examined all the crack-laying will be proceeded with as tour of inspection of the Caustism Pulme | west graded ready for track-turing | including line, and have examined all the track-turing will be proceeded with as works in the mest this side of the like ky | soon as the rails arrive in the spring | Monatains councied with the enterprise. The trip has been a rapid one | Besides this the company will have the but the gentlemen who took part in it | it is graded and rails one hundred miles of the have had an excellent opportunity of | teach water brain by running from Win-

SHIP C PROTERN BAGACA

An evidence of his good opinion of the country may be found in the fact that he has determined to take up immediately a 640 acre farm in the North-West The farm will be under the charge of an English agriculturist, who will bring out from England with him trained farm hands. It is the intention of Mr Rose to make this farm a sort of model institution. When asked as to his opinion of the land west of Winnipeg and Mr. Rose has travelled about three hundred miles across the prairiehe said, "I think it is the finest country I have ever seen. I have often heard it spoken well of in England, and I came out expecting to find it rather below than attoro the laudatory descriptions which have been given of it; but I have been agreeably disappointed. I think the North-West is really a wonderful place, with wonderful capabilities. As oon as the English farmers learn of its riches, and as soon as they understand that wheat farming is about the best thing they can go into, they will lose no time in coming out. The district that I saw is very much like England. it has a cultivated look-though it is still in its rude state-and on travelling across it it was difficult to imagine that it was anything but a series of well kept sarms. Mr. Roso leaves for England on Saturday next. He will, before his commonced the construction of the line departure, visit the very castern end of from that point?' the Canada l'acific, the line which, until "The statement recently, was known as the Canada Contral. In company with Mr McIntyre, he will run up the line as far as it goes, and will proceed thence to Callender, the eastern end of the Lako Superior portion of the road. After viewing the Niplasing district, he will proceed to New York and embark for home. Mr. Rose has made a very fast trip across the country He arrived in Canada only a fortnight ago. He has been constantly travelling. For twelve nights, he says, he has never slept in a bed, and he does not expect to eccupy one until he arrives in England, the nights being occupied in travelling. The Mail reporter who saw Mr. Rose

ME DURCAN PLINTING

last night in the special car in which the party has travelled for the last two weeks. The car was lying in the Grand Trunk yard. In response to interrogation on the part of the actibe as to the route of the party and the result of the observations made, Mr McIntyre said - We went from here through to Winnipeg, and proceeded at once from that city along the line built by the Government to Hat Portage." It may here be remark. ed that the line from Winnipeg to list Portage is a portion of the branch from Fort William and Prince Arthura Land. ing to Winnipeg, known as the Thunder lay branch Two portions of this branch were put under contract by the tate Government, the one extending from Thunder Bay to English river, the other from Recwaitin west to Selkirk and Winnipeg. Upon the completion of these two portions of the line there would have been a stretch of 125 miles wanting between Keewaiin and Easter of Callender with the time special formulations and Easter of Callender will be working upon the Canada Pacific west of Commissioners made signal fallares in their attempts to produce the same result a few years ago. The same foundations, furnaces, water supply, and bombined in the contract. wanting between Keewatin and English river to make the road complete from Thunder Bay to Winnipeg. The pre-sent Government undertook to perfect the branch and to build the missing link This link has been under construction for some time, and Mr McIntyre says regarding it "The bridges at list Portage a rose the river are finished, and they are commencing to lay the track upon Macdonald and blanning a section | It looks now as if the line would admit of the running of trains along the entire Thun-der Bay branch by the end of July next .ear, and as if that part of the road & t) Italiway from Ottawa to Montreal nould be in complete running order for and Quelec, we will have a second the emigration season of 1883. By that through route from Chicago and the time we hope to have connection at west to Montreal and Quebec, running spanish river with Negdgen, in which across Canadian territory. I may also event we will be able to sarry passengers, say that under the charter of the Atlanright through to the North-West on tic and North-West Railway Company canadian territory. After leaving that we intend to budge du St. Laurence at canadian territory. After leaving that we intend to bridge the St. Lawrence at Fortage, the party proceeded to Brandon, Montreal. While the other line will which is eliuated about 145 miles west give us a Canadian route to the scaloant, of Winnipeg Regarding the line

AIROSS THE PRAIRIE

Mr. McIntyre said in reply to a series of questions. "They are laying the track reply to a query, "tenders have been a ross the prairie at the rate of a mile called for the grading of sixty miles and a half a day. The road now touches from Spanish river east the grading is completed and the road is being built for us in the various yards, fortnight. When we were at firmal committee works of our own at Valley, near Brandon, where the line Montreal. As to the track laying, I can of 330 pounds, a little over half the spacetime the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and that steel ships would not cost or receive the surface, and finally het pressed and the surface, and finally het presse

the reporter maked.

THE PACIFIC RAILWAY PROGRESS McIntyr and a fix a bundled and tally The total is under contract. Mr. lik Bept and test are as believe tustes further. The grading is come on

pits. The trip mas teen a rope on a ligranic and seed of the but the gentlemen who took part in it ties and miles one hundred miles of the later bad an excellent opportunity of southwestern branch running from Winseling the railway and the country. Mr. nipeg to the Perblina mountain destrict depty expleded with terrific violence, of the pieces picked up were of irregular floss united the North-West for the first. So that when the season closes the complete track for two opened to admit steam to the exhibitor, the most plant and the country. Perhaps the very large increase a large many will have a complete track for two opened to admit steam to the exhibitor, and the very large increase a saling aligns of paidlo steamers has been one of the pieces picked up were of irregular plants. Perhaps the very large increase a saling aligns of paidlo steamers has been one of the pieces picked up were of irregular plants. miles more when spring opens The track-laying next year will proceed at the rate of three miles a day, because gangs of men can be kept at work at each end of the graded section ' "What is the condition of the country

through which you have passed?"
"We drove thirty miles west of Brandon, and we drave along the south-west branch where the grading is being done and I must say the country is filling up and I must say the country is filling up with resistless momentum. Water may well. I found many settlers from this in fact be easily heated to such a degree part of Canada there, they all accused to that a pound of the liquid will equal a be pleased with their changed circum-pound of guspowder in energy. Atsixty stances. On the big plain west of Branthe crops there, as in other places, are of a pound of guppowder. Given the pressure from its surface. Mr. Lawson's ture of to day in connection with the office is open in Winnipeg and and proper conditions for discharging that next step will be to show that his liminating energy against the boiler, and it will be proved boiler cannot be exploded. latids that have been surveyed are open for settlement "

THE EASTFRY SECTION

"What progress," asked the reporter, is being made with the eastern section of the turel?"

" We are proceeding with the castern section as fast as we can, but no very marked progress can be made until the track of the Canada Pacific-until recently known as the Canada Centralins reached Callender."

"The centrest specifies that you shall commence at Callender on the ist of July and it has been stated that you have not

"Tho statement referred to is not a correct one," Mr. McIntyre said. We commenced grading and clearing at Callender before July 1st, and we have continued vigorously ever since as fast as the character of the country will permit"

"A reported interview with you in Winnipeg makes you state that the track is being laid from Mattawa to Callender, and that two thousand men

are at work west of Callender" -Ali, I did not say that What I did say was that we have all the men working on the railway west of Mattawa that can possibly be put on the work, and according to the last pay slicet I said there are about two thousand men and two hundred and fifty horses employed. Of course every soily knows that in railway construction a great deal of work in advance of the men who prepare the road bed has to be done. The total has to be surveyed and located, for instance We have five parties of surveyors ent now, surveying between Callender and Repigon. The force of men now engaged west of Mattawa and esat of Cal-lender will be continued, and the construction of the road from Callender west will be prosecuted with at least the same energy and vigour as was the building of the Canada Central. In the course of a few weeks the whole force now employed on the Canada Central extension east of Callender will be

BARTERY CONNECTIONS

understand,' the reporter remarked, "that you are connected with the Ontario and Quebec railway scheme '

"I am and I am in a position to say regarding that road that it will be carried through and finished within two years We intend to build from Toronto to Perth, and to use the line of the Canada Central from Perth to Ottawa. With this line and with the Credit Valley, its western connections, and with running arrangements with the Q M O this line will give us connection with the entire American rallway system south of the St Lawrence. An regards the Sorel branch," Mr McIntyre said in We are Jushwithin fourteen miles of Brandon, and lingthe road at all points. Rolling stock bed ready for the track up to limidon, and locomotives have been largely and for seven miles berond that place ordered. The car factories are as busy The cars will run into Irandon in a as they can be and we are about to start fortnight. When we were at Ginnel car and locometive works of our own at Valley, near Brandon, where the line Montreal. As to the track laying, I can crosses the Assimilation, the piles for the safety sar that we expect to reach the

Passing at Line k. K. Matematen trees Care a disa week territory and be a Districted

SCIENTIFIC AND PRACTICAL.

AN INTERUSTING BOILER # X+ PERMIT

Numerous in farces are on re-ord of lead been blown fully half a mile from strong tenters, well made in all is special the bomb-proof. The other one had not is that by opening the valve or throwing in cold water, the pressure of steam on the surface of the water is suddenly reduced, whereupon the water, charged as it is with the tremendous energy of its heat, luaps from its place, divides, and strikes with the solidity and force of cannon balls against the interior walls of rent as if it were expleded with a corres-

ponding weight of cannon powder
Mr. Daniel T. Lawson, of Wollsville, Ohio, has recently produced a form of boller designed to promote safety in the use of steam by preventing all danger from explosions or jojurious strains arising from the causes mentioned. In an article describing his invention Mr. Lawson's theory is fully set forth; it differs somewhat from that stated as ordinarily held. He claims that "when water is suporheated it becomes as explusive as gunpowder, exploding by bursting into steam from a reduction of pressure." This explosive formation of steam produces a concussion on every inch of the boller, much greater, Mr. L. thinks, than the regular steam pressure "There is abundant reason to believe," he says, "that It is this concussive action which causes the numerous and mysterious boiler explosions, and which cause is wholly independent of the amount of water in the boiler, in fact the greater the amount of water in the boiler the more terrific the explosion "

Mr Lawson has lately tried, at Pittsburg, fu, a very interesting and importand practical experiment, for the purpose of verilying his theory and demonstrating the mivantage of his invention. His first step was to prove that boilers were liable to and did explode in the manner he swerted; and this he has apparently proved by actually getting up an explesion, which took place at the time and hour he named, and in the way he said it would, namely, by simply opening the boiler valve and letting off some alcam

This experiment has been heretofore triod by various engineers, some of them very loarned, but Mr. Lawson is the only one, so far as is known, who has auc-cordor. He has certainly taught us a good lesson in the boiler explosion art, which will probably result in great bonefit. A letter in the Tribune gives the following particulars -

The experiments were made in June, at Munhall Farm, on the Monongahela river, nino miles above l'itteburgh, l'a and showed a tensile strength of 624 lbs. to the square Inch, according to the United States standard. It was alx feet In length by thirty inches in diameter Before being taken to the ground it was tested by the boiler inspector and pro-nounced one of the best and most per-

foct ateam lotters he had ever examined "The cylinder of an eld atumboat engine was connected with the boiler by means of a two-inch pipe, in which was fitted a quick-lifting valve. The steam was permitted by means of this valve to enter the cylinder in the same manner as it enters the cylinder of any ordinary cogine, with the exception that it was not cut off suddenly, as in a working engine. Had it been Mr Lawson claims the explosion would have been still more certain. When the pressure reached a certain point the furnace was fed with rinding, and dry at a temperature of 80 netroleum by means of a small plue connerted with a tank located at a safe dis-

tance The toughtly of those who may the loiler were of the opinion that it would safely stand 'on pounds pressure, and would not give way to less than con-In order to save time no test was made until a pressue of 326 lbs. to the square luch hail been obtainable. The valve was then lifted quickly, and the steam shock which was distinctly noticeable by those in the bomb proof.

What beliefing the ne beyond Bosofon . The trule returns of the sir at Wests bound a full. No somer was the cylinder in Balway er C mada for the speek ends, fill of by the rushing steam than a slight slook was tell, followed by a ternile teport. Vast volumes of steam staveloped excepting, but there were no elgos of any let water, it all basing bust into

The report had sourcely shed away solution consists of a second report had sourcely shed away of alumin water, or before a shower of condensed steam becan filling accommunical by merce of tion, little ke, steam pipes and other teleses wareely a vestiment the firms cor boiler? was left. The latter had not merely to litername In this strong as me single point, but was substincted in the strong as me literally term into instruction. One of conditions of adjuste of aluminous at the largest piece syst found was about a local actate are used alternately =8 foot and a half long and a foot wide. It

received theory of this class of explosions which he believes to be proof against greatest improvements of recent time. explosions of this kind. It is construct- and it is more the loss real or imperture ed with a partition intervening between the flues and the top of the boiler, thus creating a steam compartment over beneficial. This change has been do the water, to be supplied with steam in great measure to the introduction. from the water through valves in the partition, which valves, to ensure safety, must be smaller in the aggregate than with resistless momentum. Water may in fact be easily heated to such a degree that a pound of gunpowder in energy. At sixty pounds pressure to the square inch every cubic foot of boiler water has the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of a pound of gunpowder. Given the last the energy of the ener

METHODS OF WATERPROOFING CLOTHS.

Without considering the process by which cloth is waterproofed by such substances as India rubber, oils wax and varnishes, there are several processes in practical use by which cloth to rendered non-absorbant of water-and for all practical purposes waterproofwithout materially affecting its colour and appearance, greatly increasing its weight, or rendering it entirely air proof. These processes depend mainly upon the reaction between two or more substances, in consequence of which a substance insoluble in water is deposited in the fibres of the cloth. The following are several of these processes -

LOWEL S PROCESS.

 Scap
 2 ouncer

 Glue
 4

 Water
 1 gallon

Seften the glue in soft water and dissolve it together with the soap, in the sought as that of the future, combined water by aid of heat and agitation. The cloth is filled with this solution by boiling it in the liquid for several hours, the time required depending upon the kind on films and thickness of the cluth. of fibre and thickness of the cloth, reductions in weight of machiners as When properly saturated the excess of tied. This implied careful talance When properly acturated the excess of ried. This implied careful telason. liquid is wrung out and the cloth example and adjustment of all working parts a. posed to the air until nearly dry; then illigested for from five to twelve liours fit -. neltulos gniwollol udt

It is finally wrong out, rinsel in clean water, and dried at a temperature of ago. about 80° Fahr.

l'aut's process requires a small quantity of oil, but in other respects resembles the last. It is given as follows -

Sodium carbonate (commercial) 1 pound Causticlime 1 6 Water 2 pints.

Bull together, let it stand to settle, then draw off the clear lye, and add to

reviously melted together light and attroccasionally for half an hour, then carry measurement goods as well and s Introduce-

Olun (previously softened) .. 104 Linsted off....

and continue the builing and stirring for another half hour. In waterproofing encehalf ounce of this soap is mixed with a gallon of hot water, and in this the goods are sonked for about twentyfour hours, according to thickness and of hold, and it carried 1.300 tons of character. The pieces are then allowed to Billian, and brought from Billian to drain until partly dried, then souked tons of ore. The milders price of for six hours or more in a solution prepated as follows .

Aluminum sulphate 1 pound Lead acetate Water.... à gallons

Shake together, allow to settle, and draw off the clear liquid-ring out after

Bienvaux uses instead of gluo and oil As above, the gelatinous portion of seawrack grass with a small quantity of a drying oil and common resin sods SURD.

In Reiniann's process the cloth is passed slowly by inschinery through a tank divided into three compartments. the first containing a warm solution of alum, the second a warm solution of ried the same amount of car-o rached into the exlinder rapidly, but less accepted a warm within other effect than to produce a which is constantly renewed. The cloth to Mesors. Mitchell & Co. which is constantly renewed. The cloth to Mewes, Mitchell & Co care on passing from the latter is bushed and at the matter in a commuter on passing from the latter is bushed and point of view, it was passible lander to remove the sait althoring to that shed shine would not seek as you

36 2 1 ...

The solution is to find the course of tiles, and it es tout to require the so on when the pressure was removed of logwood liquor is added solution consists of a situ del . . .

> Zine sulphate b pr craft Water e de la partirio

Bullards process to somewhat such tire American

serew steamers, has been one of the from having been gradual, while the to the Britain has been movery economical marine engines chiefs of the compound type, together an better bollers carrying a higher pressure marino engine was the demand flargely increased power to meet the requirements of shipowners for larg vessels and higher specie. He the treated of the questions of weight far and efficiency. To sum up, the who progress has been made during the in nino years, in the following particular.

1. The lower of the engines made a making showed a great increase specie, hitherto unattainable, were now

seen to be possible in venicle of all tivarious classes 3 The consumption-fuel was reduced by 13 38 per cent c the average, and numbers of vent were now working on much less ... than the average, while the quality of the coal was in nearly all cases interso that it was not unfair to take crof for 20 per cent, red ition 4 la working pressures of ateam were mult Increased on the average, and were still increasing, meny stemmers were being built for 120 pounds as squainch, while 50 pounds was the standar pressure new required. As the increase pressure meant increased efficiency, the illd not appour any reason why th standard of 150 lbs. should not be well as of the steam to the work to b dono. The more general introduction a steel in all its varieties was enabled the marine engineer to adopt meatending throughout to lighten worsle parts, and to increase velocities in way he dated not attempt time yes

Mr. Mustel, of the Board of Test London, said. He thought they we all agreed that steel was a much supers article to iron, and that a steel ship wa infinitely better than an iron aby Questions as to the quality of sires, i' uniformity, ductility and atrength ve settled; they had had sufficient espec ence to know that, for all practical pri poses, steel was generally uniform to character, and that from ships were to to be compared to steel ships. They it an infinitely better ship from steel, an he hoped the steel manufacturers wor's legin to try to bring down the price. steel so that steel ships could be buit. economically as dead weight. He bar to live to see the day when an iron . . would not be built.

Mr. John Regerson (Weardeale ! Company) said he had obtained the dtails of a steel vessel engaged i " Billao trade. The length of the vest inches deep, and to feet 3 inches dep steamer was £17 000 in iron and £15 350 in steel, the difference being £1. The years was built in 1477. T The vessel was built in 1877 steamer carried 80 tons of coal extra " wards to lillbao, and brought 8 to extra of from oro lack, and the at a amount received for freight or 3 above what would have been care to a similar vessel built of iron was A per annum. The extm cost was surance, £148 10s, 2s a ton for lea and discharging extra carco, 144 | 1 cont. brokering, 142, making 127 | 1 to be deducted from the 140 | 1 av. £365 104 as profit on the extra out av £1,350 Ho had got these figures a Movers, Clapham that morning 24 1877 the time had got another stramer at a price of £16,000, which ;

at many would the plates of ton ships and to delication so great that the electrical are or sound. The cost of the electrical receivals of those boats had to so great during the 20 years that he whole of them had at least been once of which he was speaking of the shells and not the machinery. During those a years himself and those connected esta him had been studying how to seen the repairs and renewals. A new seen the repeated With sleet there and I pitimately for less wear than there was non in hemships, and as fermanent greitment, ateel ships would be better

can iron ships. Ve Withy (West Hartlepool), said Labort time neo a steel vessel built to the Type, sat on a large stone, doubled p Let plates considerably, and broke me of the internal floor-plates. The sederwiter garo it in the official repo t that if the vessel had been bullt of iron, the would have cracked her plates, and would have filled with water, and protarr cost the club thousands of pounds ile understood that the main question and by Mr Prico was whether, at toto a price, it was commercially beneund to build vessels of steel instead of If Mr Price was oftered either a ted ressel or an Iron vessel at the same ot Mr lifte would say that the steel resel would yield a greater net annual rout and therefore, his would take the steel versel Mr Price nungested that, is an alternative, from veser is should be meresed in size, and the speaker showed the objections to that control being adthat because large liners would pay it tuit of steel, all cargo carrying boats modify also Last year, he built a steel tout, and it was not one of the mest favourable type to show steel up A large portion of the vessel was I light scantling, upon which they reuld not get the full reduction that Lloyds allowed. The result was that he vessel carried 4 per cent. more deadweight, and cost between £1,500 and 12.000 more than au Iron vessel would at that time. He found that the amount of iron not replaced by steel was 15 per rent, and steel replaced from to the extent of 85 per cent, and the weight of the steel was 14 pur cent less than the weight of iron. The over-head saving by using steel and iron was 12 per cent. The resel carried about 2,400 tens. Ho would essume also would carry for an average 200 tons of coal, leaving 2,100 tons for carge Supposing the freight on 1,000 tons of that cargo was absorbed in taying all the working charges of the vessel, and that the prefit-benting portion of the cargo was only 600 tons. The increase of 94 tons which that vessel carried was a very much more le pertant item than the 4 per cent. first named, there the from vessel could just iun and make ends meet, the steel vessels would certainly have those 94 tons to get profit ant of. The steel vessel in question was built with no more stowage capacity, but then completed it was found she diem 'l inches less water. Another point of importance was that not a particle of steel either in testing or work, was condetened in building this vessel; and it was the first experience of his firm in building a steel ship. That was an item in favour of the cost of producing steel ressels. He believed, with Mr. John, that the insurance would come lighter in the end on steel vessels. He was re-

POSSIBILITIES OF CAST IRON

There is a class of cast from work that formerly was imported more extensively 'han now, which gave us intuite articles of use, and even ornamental appendages to dress, so light in weight and so appar- lude. catts fragile in form us to suggest time hand labour. It was supposed that we had no material or means to reproface such diminutive and fragile articles from cast from But recent Improvesacuta both in material and manipulation, prove that we can almost equal the deteacy of what is known as " Berlin from Sine charcoal from passesses wonderful properties of fluidity when in a molton tate, it limbs its was into the smallest ateritices of the mold, and comes out coled, a detailer represtuetion of the inmust of the pattern. So exact to this speads tion that have lines, to be repreulty or a hundred to balance a quarterhere as articles weighing pounds I. of producing more dimmutive objects horse power wheel then from the possibility the fact that the man with its engine the charced from in castings, let any one examine the delicate slow bucker and belt buckles, the shaw clasps, and set 152 revolutions per minute, or name that the shaw clasps, and set 152 revolutions per minute, and set 152 revolutions per minute, and set the shaw clasps, and set result he gets to horse power the straight of the ventilation by simple means, it was the fact that the form at man and vegetable the ventilation by simple means, it was the total to former are decided to put in a fan 261 feet in distinct oils by the fact that the former are it will industried practically unaltered by alkalies, while of the bearing, and, if running a milisome examine the delicate slow bucker and true it by power transmitted and set result he gets to horse power and true it by power transmitted and as a result he gets to horse power by electricity. An s to to horse power the latter are converted more of less out of this 20 horse power engine.

at indity, would last longer. If they have node in the dunt of the nominal power, but one that is volutions for minute. The electric surset in the plates of from ships and to be east in sand molds the same as all know who have had expenses of constitution of seven only inches and put into steel ships, they would masses of not store and that come with same in the eight such compare with such or gives an always copper wires to a second transme many and the come so great that the out as perfect as the heaver castones are to take the surface and the contract of the contract of the contract of the nominal power, but one that is volutions for minute. The electric surface is the same and the surface and the same and t

SMELTING

A great triumph of meet meal skill destined, it all reports are time, to effect quite a revolution in the present of small ing in which great a constituted and anteages are obtained as regards time cost croft fr whit it dies - C respondence and quality, will shortly be introduced here. It is claimed for this new contrivance that it is not unlikely to cuttrely superseds the present method of smelting frammick as it utilizes crude petroleum as a substitute for, with results more valuable than the charcual, coal or coke hitherto used. An intense column of flame, varying from 90 to 100 feet long decomposes the petroleum into its original elements of hydrogen and carbon, which uniting with the oxygen of the air blast, forms an oxyhydrogen blowpips flame of extraordina y power. managed and controlled with the utmost ease, the heat obtainable thereby ranging as high as four thousand degrees. This wonderful smelting turnace is automatic and continuous in action , simply supply it with oil and ore and it performs its work effectively Add pig. or Manganese, and the orea are converted into steel at a single operation. Shovel from ores into the upper end of a 10 feet cylinder with fluxes and pig iron runs out in a continuous stream, the repidity of the process being something astonishing Reten gallous of crude petroleum-custing but a few cents p-r gallon—will speedily reduce a ton of ore, the total cost of its conversion into a malicable fron being a aliado less than two dollars and a balf per ton of metal. Steel produced by the Besseiner process is not equal in quality to that produced by the new turnace. whilst the furnace and plant cost about a fourth of the Bessemer It cannot be doubted that an invention of this importance, granting all that is claimed for it by reliable experts, is deserving of sort-ous attention when we find that the value of iron and steel manuscrures imported during 1880 summed up the grand total of \$10,127.623, add railway bare and rails alone amounted to 1,539,603 cwts, the value being \$2,152,633. Giving all due consideration to these important facts it is difficult to over estimate the advantages which so valuable a process may be realised in a country such as ours in the first instance by utilizing our own ores instead of exporting them to the United States, and then repurchasing them manufactured also by rendering valuable deposite of from now lying unproductive, and shally by creating in Catala a vest and profitable industry, giving work to thousands of willing hands, and retaining within ourselves the large sums every year seat abroad to pay for the Iron redulted for our own nec

STEAM ENGINE NOMENCLATURE

The steam engine has been often liken ed to a thing of intelligence, and it might also be said that it lias a language With the proper instruments in hand and a knowledge of their use, this may be easily uniterstood, and the engine, great or small, will tell you what it is doing liut to the masses this is not fully

sponsible to the owners for recommends understood, and the result is that ening that the ships should be built of steel instead of iron; and he went into what he supposed would be the carnings if you will allow me, I will attempt to

overrating his engine

A careful test will probably prove him to be correct, but to many an indicator card has no meaning and furnishes no evidence of the power of the engine. To this class there are other tests more convincing, to one of which I will al-

The unmistakable value of a cubic foot of nater falling a given number of feet accounts for the fact, perhaps, that the various makers of water wheels have harmonized so nearly as to the power of their respective wheels.

The millwright puts in his turbine or other kind of water wheel and demonstrates that with a given amount of water and given head he has 40 herse power. This is applied to a circular saw inill, and when regularly run cuts tons \$,000 to 10 000 feet of lumber per day

A neighbour concludes that he will go to the under with weam power, in place sented only by very time tre, come from of finding another waterfall and taking in mold perfect at form and quite tens the timber to the power. So he bure about in texture. Articles of east from one of the first named 20 horse power. ast in a mold of sand, which require engines and sets it to work, dittying the same sized saw mill as the one driven by sound weight, are as readily produced water, and to the astenishment of all. be is able to cut as much lumber as can be done on the water infil with us ()

if a given seed wheel under certain heads of water. The one is as easily demonstrated as the other, and units as important to the pair hasers of sither

My object in this is not to draw any distinging comparisons between the An in William to

TROUGHING BY ELECTRICITY

A most interesting application of electraity to motive power is seen at the Paris electric exhibition in the plough-ing machin s of the late M. Minler, exhibited by M. Felix, which do the work of about 18 horses. In these are em-Gramme machines, which were thist mule for them, but which have since become the usual form for Gramme motors. The ring amature has four poles opposite which are the Jules of the fixed magnets, each fed by two anne, giving somewhat the appearance of a square with a I four sidus prolonged each way, and enclosing a circle. All the eight arms are connected by an octigenal framework of a very solld form, forming part of the field magnets. This is undoubtedly the most compact form of Gramme machitie which Las been inade. This ma hine is at one end of the clecifical locumetive, at the other endia the gear for directing the motion of the whole en. ine forward or trickward in the field to be ploughed, or for stopping it nd putting is action tie machinery for winding up the large coil of wire repe, which coil is in the middle of the engine. The wheels are, of course, wide, like those of a traction engine, so as to be able to pass over ploughed land. One of these engines being stationed at each end of the field, with a triple-shared reversible plough between them, the electric contact is made, the Gramme machine turns round and winds up the wire, and so draws the ploughshare along. When the plough has reached the end of a furrow the engines advance a step by gearing the Grammo machines to the proper wheels, the plough is tilted so as to bring three other shares into setton, and the engine at the other end of the field pulls it in the reverse way.

RAPID MODE OF DRIVING DRIFTS AND TUNNELS.

An interesting experiment is being made in the Arillerg tunnel with a new sort of perfemter. As is well known the perferators used in the Mons Genie and St. Gothard tunnels consisted of a series of chisels (not diamond pointed as has sometimes been stated) driven with a pick bammer-like action by compressed ale; the machines for the production of which were actuated by turbinos at the two ends of the galleries. This system is the one in use on the castern or Austrian side of the Atlberg. The chiscle cover a space of seven square metres and make twenty to twenty-five holes at one time, each from one and a quarter to two metres deep These are then filled with dynamits and the mine exploded Every blast lengthens the drift by about one en la quarter metres. The perforators thore forward on wheels, and the air, compressed to a pressure of tive atmospheres, is supplied through the xible tubes Un the west side drills are employed, of what he supposed would be the carnings if you will allow me, I will attempt to a diameter of seventy millimeters, to see whether show to what extent this gives which, by means of a water pressure of the net carnings of a steel slip would the net carnings of a steel slip would the net carnings of a steel slip would the same sized engine and calls it a 20 horse power, a rotary movement is communicated another builds the same sized engine and Six or eight of these drills are as effective of the value; and he would supply a mother united the state of the leading particulars for the talls it a 30 horse power. In nino cases as twenty to twenty-five of the atmossive out of ten the latter will be censured for pheric perfector, and the holes they nake are so much wider that equal results attempting to decide his customers by make are so much with higher clarges. sults are preduced with lighter charges of dynamite. But the greatest difficulty in Alpine tunneling consists less in quarrying out a passage than in getting til of tubbish. After every blast, the outcome of it, in the shape of loose material, must be removed before boring operations can be resumed, and when an atmosphere, already close and impure, is still further fouled by the smoke of an explosion, the labor of removal becomes daugerous as well as difficult

TRANSMISSION OF POWER BY ELECTRICITY IN MINISC

The first fustance on record of the application of electricity for the transmision of power is reported from France. M Mathet has submitted the details to the Societe de l'Industrie Minerale. The he t lande shaft at Blinter was sonk to the dipth of 5 m meters (1,040 feet) for the purpose of sear hing for a fulled portion of the coal scame, and a heading was run trum it across the strate. When this heading had reached a length of 400 ineters (1.412 feet) the ventilation became so poor that the temperature at the fact rose to 95 Fahr, and the miners

the difference of great that the out as period as the heavy reasings, run to their maximum capacity.

I have clear their would discover the fine short the possibilities of clear from formal explorers would discover the fine short the possibilities of clear from fining explosers and fine short the possibilities of clear from fining explosers and fining explosers, capable of melting explosers and fining explosers, capable of melting explosers and fining explosers, capable of melting explosers working at a among speeds and fining hours for explosers the first time formal pounds of mela p abitts. The return current was conducted trem the underground ma hine by an iron wate cuble. The cost of the whole plant is stated to have been only onethird of what & insoling for delivering compressed air to the heading would has regreed

SPLENDED WORKS OF ROMAN LNGINEERS

Modern engineers are apt to loast that no work of the unclents can compare with their railways, it is not quite certain that this boast is strictly correct the roads and bridges, and acqueducts of the Itomaus, will by many be considered as greater works than railways. What modern engineer or architect, or both combined, has brought the bmnch of a river from a rocky gorge in the hills 40 miles off, where the water is generally clear and never falls, to supply London with, as the architects and engineers did to supply Romo? This water was conveyed in a atomy pipe five fet high and two feet wide, by a gradual, gentle descent, sometimes on the top of a lofty bank by the eldout the river Auto (from which the water was taken) when its course was sufficiently direct from east to west, but at the intervals the line of the river had to wind considerably to the north or south around the base of a hill, in those cases the engineers pierced their pipe turough the foot of the hill, sometimes for two or three miles until it met the bed of the river again; then, when they had arrived at the foot of the hills on the level ground called the Campus Romanus, in which Rome stands, and through which the Tiber winds its course, they carer their stone pipe, called a specus (because it was at first subterroan), upona magnificent arcade sive miles long, varying in height according to the level of the ground, gradually emerging from a hill on a l-vel at first, and then arising sometimes gradually, sometimes suddenly, to a height of 48 or 50 feet, where they had to cross the small streams that run across the country And this areade was built either of stone or f ced with stone almost throughout The specus of Claudius is carried on an arcade of cut stone : that of Nero. which is on the top of that of Claudius. is faced with the beautiful brick work of his time, the finest brick work that has ever been made. The celebrated aque-duct bridge called the Point du Uard, in ti e south of France, is a Roman work of third and fourth century, with a carriage road by the side of it, as was usual in acquester bridges. When the English engineer architects, have supplied London with water as abundantly as flome was supplied in the second or third centuries, and can show as fine brick work as that of Nero, they may pretend to rival the engineer architects of ancient Rome but not before

All hells, says from tre east with their notes sharp, and the flattening of the note Is then accomplished by turning away more or less of the inner surface of To sharpen a bell a note there must be a sticing away from the lip, and this cannot be done to any extent

A Mr Conaut, of Prairie du Chien Wise has patented a compound to be used in the welding of steel or in the restoration of burnt steel, composed of sulphate or other salt of copper, resin and sel ammoniac. This is thrown upon the metal under treatment, thereby becomidg incorporated with it.

It is considered bad practice to make the bottom of stuffing boxes or glands is the saving in packing, it has a tendency to flatten it, rather than close it tightly about the rod. The tottoms of all stuiling loxes and glands where fibrous packing is used should be of a conical shape in order to close the packing a ound the rod with the least possible pressure

A careful experiment in driving a fan plower, with no apparent slipping of tioner, with no apparent supplies of leits, showed a loss of all per cent between the engine and fan. The number of belts or changes was three. In other speriments with belts, not so estefully adjusted, the loss varied from 8 to 15 other circumstances

A recent German patent employs two her pressure than the other mittel uie it am le need in connec-Hich P. boot straps

of the would draw less water in silver. He will find they use one of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing and with it is forming dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of a sponing dynamo-electric point of view the process of ation' consists in the reaction of a solting in the formation of a fatty and and gly crine or some allied body

An endeavour has been made in tiermany to replace the carbon in the Bunsen cell to cast from In this couple assa the Pleater out, the fron planged in concentrated azotte acid at that assumes a passive state after a certain time, however, the concentration of the liquid diminishes, and the fron dissolves with efferrescence, and the cell has to be un-mounted at one — Dr. Velsmann, how-ever, her found a means of remedying this by adding silicium. He thus obtains a metal which remains inactive, and the strength of the lattery is not diminished the addition of addition permits also of more avoite acid being

The difficult task of removing the great fron tower erected for Centennial pur-poses in Philadelphia, known as Sawyer observatory, has just been successfully accomplished. It was 100 ft. in height. s ft. in diameter at the base, and weighted 40 tons. By means of a pair of alienta, formed of two massive timbers 90 ft. long. fitted with a block and tackle, the tower was awing from the centre and lowered to the cartle, where it will be apparated into rections of 35 ft each for removal to lkiston This, it will be recollected, was the manner in which Licut Corringe took down the famous monolith, in Egypt, preparatory to its removal to New

Raoul Pictet, of Genera, so well known for his discoveries relating to the liquefaction of gases, announces the discovery of a method of distilling alcohol by Ice. Two kilograms of ice are trealed our the production of a liter of alcohol; that is. for the distillation of 110 gallons of nicohol, a little less than a ton of ice will be required 'The cost of production will include only coal for working the steam engine which drives the air pump, and the sulphuric acid, the evaporation of which produces the ice 31 Pictet declares that this will notably diminish the expense of distillation, and suggests that the excise on alcohol should be proportionally increased.

The experiment of running a locometivo without brakes has hist been unccerefully tiled by the Delawere, Lackawanna & Western Ballroad Co The locomotive is of unimary pattern, but has an extra pipe lessing from the boiler to the steam cliest, by which power can be applied against the piston checking the engine and enabling the engine to reverse without chauling over. The value of this device is extremely questionable. The racking strain on the engine will be quite the same when steam from the buller is admitted on the opposite side of the pistor, by means of an tudependent steam pipe as when it is let in through the steam chest by throwing the valves over.

The American Machinest says. One of fue most interesting things in the tool line, noticed by us to a recent visit to the Pennsylvania Railroad machineshops at Alatoina, was the use of cast fron lathe tools. We saw one tool which had been used to face off four cylinder beads without grinding. The workmen do this work by the pleye and are allowed to choose either steel or cast iron tools. The whole secret of the success of cast fron tools lies in the use of proper iron, and in getting a good chill in casting. The from used in this case is the same as that used for car whicels, and takes a good chill. There tools are also used for planing hard cast iron, and are found to stand where the edge would be beened off a steel. They are also used for turnitig and planing wrought from and steel

President Hammett, of the Peldmont factory. South Carolina, in a recent address and that the South, for the present. should confine itself to manufacture of the lienvice cutton falirles and to yarns. This was explained by the statement that the peculiar advantage at the south flat, an when the gland presses upon the cheap labour, therefore, the greater the weight of cotton used in the goods that will juy a good profit, the greater the prefit on the investment. Mr. Hammett. also said that their are many manufacturers at the north new, with small mills, with machinery suited for making heavy goods who could, with great advantage to themselves, move with their machinery to some good location in the South and make such goods as they are prepared to make chesperand with larger prefit to themselves.

It is of great importance that a belt should be of such a length that it will athere to the drum so much as to preper cent., varying with the condition of athere to the drum so much as to pre-the lecta and pulleys, as well as with vent allipping, and that untiout the ne-that of the atmosphere fubrication and cess ty of pulling on the left so tight as cess ty of pulling on the belt so tight as to cramp the drains and wear the learings Every belt, to run casy and well, nt therean patent employs two should be so slack when running that no of which uses steam of a the slack ship should run with an undufating motion without any tension except on the leading side, and when belts notion with the injector to carry a great tent of the exhaust steam from the endinger into the low pressure buller. To great length of time, for, although a belt may be heavily loaded, yet if at every to the carrier of the carrier tron, and much like a man a lifting him - relief from its tension, it will prevent it arlforer a tence by taking hold of his from breaking by the stress upon it; but If it be kept strained to its greatest ex-The various hydrocarbons employed tent on both sides of the drum it will some inflectual attempts to improve for lubricating purposes are sharply discretch the edges and soon become desting inflectual attempts to improve the ventilation by simple means, it was tinguished from animal and vegetable strayed. Belts should not run tensely, decided to put in a fan 263 feet in discrete that the fact that the former are in it will injure them, increase the wear A STATE OF THE PROPERTY OF THE

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Scied Herring	(1) (4) (1) (1) (4) (1) (2) (4) (1)	tilenminock, jer ton din dien die Nematite dien dien dien
		ran. Canadian Siemens 200 # 21a
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" Otapilitupas & Co.,	1 (9) et 1 (9)	tive the 1 to 1 t
Pinet's, P gal	* *.* @ 4 6*; \$ 51 # 3 53	Calcularists
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" listere Gorden & Co. P gal " Remarks e. V gal	· · · · · · · · · · · · · · · · · · ·	tick excess. Chamilal Coper link 3.25 & 6.75
J. Dente, H. Mounto & Co., P. col. '' Arbourt, Marett A	· · • · · · · · · · · · · · · · · · · ·	Coke. IC (15 to 50)
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other hracile	l(5 🕔 2 🕶]	Cart, per lb
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BOOTS AND SHO	ES கெ. ச. 1 ம		
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lieat, latže primo liear, small	கம் தெக்மி 400 தி 500		
licaver, spring, do Beaver, Winter, clean pelt, per lb	over vo		
Cross Fox Prober	250 at 275 210 at 251 400 at 600		
long Martin	100 200		
Mink, Dark Prime Otter	075 @ 1 60 7 00 æ 10 00		
Recon Rate Spring Red For	10 20 0 60		
Silver Fox	200 m 2000		
Skunk, black	050 # 010		
WEEKLY REVIEW.			

MONTREAL, Sept. 14th, 16st. been done. In dry goods, for instance, the coming season for both spirits and there has been unwented briskness, many wines of our lending houses having been taxed. Fatt - The sole is reported of a few to their utmost in filling the pressing earlots of coarse salt at ou, and we orders of country as well as city totall quote 57 c to 62 c, as to size of lot houses floot and shoo manufacturers have also experienced great difficulty in \$7.00 to \$1.00, but we do not hear of distributing their goods had enough for many transactions. Nova Scotia her-

market remains steady at last week's from our last report. rates. A much better feeling has also One - A few lots of cell oil have been developed in wool, in sympathy changed hands since our fact report at ally is in a licalther conducton than we have seen it for many years past. Hemilitances are reported very satisfactory

in most departments Day Goods-There has been a large distribution of fall goods during the past week and many houses have experienced quotations great difficulty to filling their orders for teen able to turn out the goods fast received the least of the least o and fancy goods, has been literal. A Learner -A fair business is passing number of busers are in the city, pure in Finish, slaughter and Spainth solo at chasin, etty treely, and the energies of about last week's rates trowale is reour whose-sie houses are taxed to the
pertoict 500 sides of almoster sole at
now process and that the new maches
turnest. One of our houses reports the 27 p. Bd sole is steady at 24 p. 10 25
largest business during the week that it for No. 2 and 25c to 27c for No. 1. Splits.

Philadelphoa, turns out thirteen tone so

most of the leading houses. At first he had experienced the busiest time dur- tent industry which will in time ma'

oprints ampliance dues goods etc. In such the opportunities for at the real be recard sele from soil through the men improving the position

of freights are steady, and the outlook is feeling in the United States there is no wanted to the control of the United States there is no state of the United States th from spirally a to size of lot. In that A carro of Cane world from the control of fron we heat of sales amounting to about sition we heat of sales amounting to about shortly expected in port, consisting at \$1 × 1 ingot copper and tin are unated at last weeks prices. Canda (special ballon are reported for that classification are steady with sales at \$1 at 1 in lates are steady with sales at \$1 at 1 in lates are steady with sales at \$1 at 1 in lates are steady with sales at \$1 at 1 in lates are steady with sales at \$1 at 1 in lates are steady with sales at \$1 at 1 in lates are steady with sales at \$1 at 1 in lates are steady with sales at \$1 at 1 in lates are steady with sales are sales are steady with sales are sales are steady with sales are sales a changest at the winds at \$1 a 3 and several content of the several plates are steady with sales at \$1 a 3 and lots of great 1 sales at 1 and 1 a fair fingulty at 5025 for charcool and In domestic wool there is some lating the for cokes. A report of the l'hills- reported in the lating to the lating delplia from market just to hand sava Very few Eastern Pennsylvania lac mills can touch an order for delivery betore December. The card rate is noted inally 23c, but buyers pay more for small lots On Saturday there was a rumour that several hundred tons finished English fron had been cabled for, as a trial Five hundred tons blooms (haminered charcoal) brought \$79,50 at works to-day Eight hundred tons muck bars, In two lots, brought \$41 and \$42.50 re- this market during the week, Canada to spectively Saleshave loca made as low winter having brought \$145 at 1 as \$40 50. Gray forge is scarce enough Canada white \$1 40 at 1 and 5 to advance to \$21 for Leligh or Schuyl-kill at furnace but for the desire to not

unduly agitate the market " GROCERIES-Orders from the country have been received during the past week embracing much larger lines than have been received for some time last. There ing the week of fully los per bbl in a has sprung up a better domand for sugar, perfors, \$6.45 having been refused for and sales have been made during the a fot of that kind. Yesterday sup-ti-week of granulated at tife in round fots was sold at \$6.40 uninspected, and extra from refluers, and at 10k in jobling lots at \$6.39 Spring extra is from at \$01. from wholesale houses, being an advance of ic Yellows are steady and ic higher demand, and have advanced 5010 r. In raw augara there has not been much 1 10 Hm. We quote the price of 10 stirring, although we hear of one or two large lots of Barbadocs being under ne-gotiation. The new crop of fruit has large lots of Barbadoes being under negotiation. The new crop of fruit has not do so probably until the technique of next month. The few samples of fine, \$5.1075.20, middlings, \$4.70, of next month. The few samples of \$90, pollards, \$4.30.40. Ontariolage of next month. of next mouth. The few samples of relains, however, that have come to hand have shown excellent quality. In ten there is still a sluggish market, except tur fine Japans, which are rather scarce and In good demand at 40%45c, sales having been made at both figures durlng the past fow days. There has been have been made in this market at \$23 to Ing the past few days. There was even a little more doing in rice at \$3.75 for fair parcels, choice lots having brought \$23.50 per bid inspected. Land is fine \$3.904(3.95). The demand for tolored is at 145c to 145c for Fulrilands at at 15c to 15c for Fulrilands at at 15c to 15c for Fulrilands at at 15c to 15c. \$3,9047395 The demand for total and still brisk at the late advance, and Smoked ments are in light supply and manufacturers find some difficulty in values remain from. The egg market realise addresses to the seasons of the seasons Coffee is still dull and prices are un changed. There has been a little more

sales of brandies at full figures, and it is sates of immilies at full figures, and it is stated that an advance upon quotations has been realized. A fair sized lot of eggs, jet dow, tough, per ils, 3 to 4 eggs, jet down the wine changed hands. There have been uninistakable signs low grade white whoe changed hands during the past week of the coming fall during the week, at within range of quoactivity, and in some branches of the tations. The general impression in the wholesale trade a heavy business has trade is that prices will rule high during

Firm - Dry cod in in some request at the wants of their customers. An im-proved feeling is being steadily developed reported of a few car lots at \$4.75, and in the leather trade, and desires look for we quote \$4.75 to \$5.00 as to quantity.

period, a better inquiry having act in 25c in large quantities, and canetic softs for both cod and steam refined seal. Iron can be bought at \$2.20 to \$2.25. John and hardware have also received their bling luts, of course, commanding higher share of attention from consumers, and the rates. In drugs there is little to note

with the marked improvement for all fine | 400 to 4740 per wine gallon, and holders wools in the United States. A good buse are fitter in their views owing to iness continues to be reported in lined stronger advices from Newfoundland, coal and wood, and the fall trade gener- Steam refined and has also been selling Steam refined soil has also been gallon found that it will not long some in jobbing lots at 450 to 460 per gallon found that it will not long some wino measure. Is need is firm and effect of water or atmospheric action without crumbling. Various ifforts have also are atendily appreciating, raw without crumbling. Various ifforts have made by manufacturing comparise prices are steadily appreciating, raw without crumbling Various florts have being now quoted at 75c to 76c Imperial been made by manufacturing comparise gallon and boiled at 77c to 79c Spirits in this country to give present fuel . of turpentine is steady at about former

cutton goods as manufacturers have not been done in naval stor a during the edadmirably, but enimbled in a more

has ever done during the many years it are strady, stocks of which have been hour at a cost of manufacture solow that

lands the demand was somewhat tree ing the past week sinco it has been in use of the militure of tone of eval degular, but a fair amount of new limines, and that the country trade now cumbering the ground around the demand by the cetton goods come was more pressing for goods than at any mission. Touses, and there was a stoady time this season. Reinfitances he said and will thus upon a new source of inquiry for businesse sized parcels of were first rate, and the trade never last instruce supply.

The second secon

dram of orders. The fonces the sale market is to visit and stocks are exceedingly well in 1 and, as a fasting sold in moderate quantities to the first hands at \$10 and at \$10 a there are Hamman — In pla from \$ 1000 to No 2 and \$

A cargo of Cape word from Alkes list ? reported on the basis of Mass for super and 3 reside for A sujet. Fle is purely nominal

COAL-A good demand exists for hard coul at So for stove and \$5 to for a and obcatout, delivered In cargo le Scotch ateam is quiet at \$460m2. Picton at \$150, and Cape Breton . \$3.50/23.00

GRAIN AND FLOUR - There have be about 200,000 bushels of wheat sold to Canada white \$1 40 at 1 41, and No white Michigan S1 42 at 1 44 Corn ha been too blah in the West to bring e hote. Oats have changed hands in care. lots at 38@3% per 32 lbs. Peas a quoted at 05%200 and tye at 95%216 In flour there has been an advance di demand, and have mivanced Sector ; as follows Flour-Superior extre, \$0. \$290%300 . city lngs (deliveral) \$... at3 50. Moul-Outmond, per bla, \$19, 5 00 , cornmed, \$3 40 a 3 45

Posk -- Henry mess pork has alranced fully \$1 per lib! during the week out & quiet but steady at 15 to 16c per doz thanged There has been a little more inquiry for market is steady inquiry for mulasses, two good sixed lots Inquiry for inclusive, two good sized lots of Barbailoes having been placed during the week at 45% 460 per wine gallou. Syrupa are still in good demand at the advance last quoted.

Liurupa.—There have been further sales of brandles at full figures, and it is sales of brandles at full figures, and it is bbl. \$3 12} to \$5 15.

Dainy Proof ca - The butter mark is firm and prices have shown great strength, croamery linking been sold a 25c per Il and quotations for tine in fancy stocks make from 24c to 10 Fastern Townships have been sold at 21c to 22 c per 1b Morrishurgh at 21c 21c, and Westernat 18 c to 10 c. 7 a elicess market remains firm at 12c to t % for August, and 12fc to 1 to for balance of season. About 4,000 larges of August have been sold in this market during the past few days. We quote as follows Butter-wholesale prices-Creamery, lat there has been so no stirin sugars, which have advanced & since our last review, and some large dealings are expected in fruit as soon as the new crop arrives in any volume. There have not been wantsting signs of a revival in the oit market, which has remained dult for so long a period, a better incolve basing of a solution of the steady at the country order trade there is very little doing made, per lb, 24c to 25c. Taxinships, and to choice, per lb, 21c to 22c Morrishing and district per lb, 20c to 25c. Morrishing and district per lb, 20c to 2

With the long winters of this Nest em hemisphere it is full time that to heaps of tons of cost dust, amounting t million s of tons, cumbering the grot around the crushers at the coal minin this and other Stetes, were put to a count as fuel. The hinese for centers have practised a method of giving co. alatence to bituminous dust, by meanmercantile value but without aucce the difficulty being in securing adhesion NAVAL STORIS -A good business has The pressed for lat the centennial but inited with the authmete, and a 1 ff coul tar patch. It is claimed that a p.

LUMBER TRADE.

1101 LUMBER TRADE

ver Collect & Co . Wood Circular aggresstingent dated Intereunt, ad t refrences, and a mouth there has been a

innos in part in rate intere may reen a retrainment of circumption, and place generally contained a sixte in some article. The import as particle has been on a moderate scale, but the interesting track. exercise especially pach line, and can to large for the present demand. can to interior the present demand, ingerest there is a letter feeling in the last it so has been observed for several lets, one modified he had wenther to ions prospects to the activational factor white species sittle hope of activations with white species and section of the se

mitton, which has amounted only to mitton, which has amounted only to mitted against 755,000 feet during the in feet against /50,000 seet disting the period less year; the sales have been yerful. Mancy board pine has arrived yerful, and the stock has considerated by the consideration of the consideration o reliare being held for better prices. The reliare being held for better prices. The made for waggon scantlings is good, if with the present moderate import, restood improve. The consumption to be consumed to the consumer to be consumer to be the consumer to be seen and the same time of the prices and to be the consumer to be the consu of the consisted of 11,628 standards start at 20 standards during the second start at the confirm has also been on a core see, namely, 12,603 standards; eliments suck amounts to 15,605 standards; the presentation of colors. As I for see the standard to the John. and atterments aroung to Li per standard; I wantion a cargo exiliary for City I from the John was old at an arresser of Li 1623 deer radard, Niramich at Lo 1528 departments and tak Bay. N. S., at £6 142 10d per color and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay. N. S., at £6 142 10d per seed and tak Bay.

and the Bay, N. S., at £6 14s 10d per sunderd, by private, St. John bave been Mat 17 per standard, Murquash at 14 at 17 per standard, Murquash at 1-3 M and Bay Verte at 46 12s 6d per seda-d Of Quebec pine deals the stock ill remains beary, consisting of U.742 addeds against 4,508 standards at the ine time last year; there has, however, ena good consumption, and prices are school material change; lat quality road realized at auction £22 les and £23 restandard. Quebec Merchantable pupe are have been sold at £37 les ter mille. At reacheon at £22 per mille. Forth of the road Woods.—For fir timer the demand continues languist, and restock is sufficient. Sake have been by tuitooly. The import of Norway floorighous has been extremely light, and te consumption, although moderate.

te consumption, although moderate, at year, the present stock is not heavy,
furestave improved during the month,
id sales have been made on a basis of
the per standard for lat white, but
tiers now hold out for higher prices

cited States, etc. Woods -The stock

reaction, the cargo of lewn timber, ex which we take the four forms of Quebec pine.

reaction, the cargo of lewn timber, ex which we take the four forms of a reresged cre, cost fold per fout for 85 feet arrenge, increased in the four forms of the arrenge arm. cost loid per foot for 85 feet average, and it is per foot tor 31 feet average sawn. It perceipt prepared pitch pine flooring pards was sold by anction at 181 los per appared for 125 to 7, and 161 los per standard or 125 to 7, and 161 los per standard or 125 and 5. Uak Staves—New Orleans tha beavy pine have been sold at from / his to 00/ per mills, lingulead at 45/ mills, and barrel at 24/ per mills.

l'rices. FROM BRITISH ANERH A.

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THE RISTORY OF CARRIAGE

tween the horsen bedies and was broad, so that the driver of the cur could stated of repute, coupleying native workmee, on it and it necessary drive from thostic shierly Hindow who insist upon sitting like pouring water into a broken pitcher of the pole or leapout and site. I be free down at their work, but are eleverand the mesone way to large, but the outgo is his horses. It was larger than a Roman Industrious. Wages vary from sixpence his horses. It was larger than a formal currents wages vary from sixpans not one will less. It pays to attract current above all it passessed a sext, and was called sesseium from this peculiarity. At times this car was for libbled with sythes, which projected libbled with sythes, which projected from the artefree ends. This was evilents was considered from the artefree ends. This was evilents was considered to the project the libble of the project that will more than make from the artefree ends. This was evilents was considered as the continuer than the last will be a set of the continuer than the same way the last was the last when your last the project of the whom your Irom the arretree ends. A miswage excitons by the less and most convenient car that had been made at that time. Circro, writing to a friend in Butain, remarks, writing to a friend in Butain, remarks, writing the appeared to be very little worth bringing away except the charlots. When you have a present in doing what no man with the made of the charlots, worth bringing away except the charlots the most of Asia and Russia to invade. worth bringing away except the charlots, the modern tribes of Northmen that of which he wished life friend to being poured out of Asia and Russia to invade him one as a pattern. In one of their Germans, Guel and Italy lattles the Bonans captured on of these! The Turkish - Araba tim one as a pattern. In one of their Germans, Guerand staly

Lattles the Bonans captured one of these

The Turkish - Araba is used for the when you begin to secure a profit then care, and 4000 essential or car divers consequence of women. Its lattice work as one other enterprising (2) dealer will and warriors. This vehicle attracted admits air without too much hight. The great notice in Rome, and with another wing guards over the wheels identify your customers, so dearly bought, will and wanters of a smaller size and with still higher this as being derived from the same wheels, called "claim" tweamo the source as the carriages of Persia and cheap and most rapid method of travelling. Hindustro. In 1860 a carriage made upon the public and intitary reads largely of allver was built for enout the throughout Europe, wherever home had ladies of the Sultan's harers, and it is sehicle drawn by six or eight miles people illustrated in their cardings.
These conveyances could be hired by The Egyptians, with all their learning

gig in form. Limiter the Heer pitch pine is heavy, consisting of 1,410, and cited and auch distin tions were familiar among - Herern Correge Journal the workmen in this train as wordings

is supposed to date lack for 3.400 years and as there is little change in Eastern fashious of methods it is supposed that the Indian carriages of the present day are almost identical with those of a very carly date. For a thousand years we In Freu e 200 years ago, there was a other Cerriages for the rich are turned, in the lish are thrown out into loude on amended and carved, with a trough or gutter below, where they doned roofs. When the limbos wanted a four wheeled vehicle, they hooked one two wheeled carriage behind one two wheeled carriage behind another, connecting them with a peach lade, and upon the bindermost ther lade, and upon the bindermost there played the lady. Above the wheels of 4,000 per day. There is virtually no explained their vehicles they played a place of peace in taking the fish save attending their vehicles they played a place of peace in taking the fish save attending their vehicles they played a place of the peace of the fish save attending the fish save attending to the peace of the fish save attending the fi

or the passengers tom becoming the unit can readily see what a vast point build wheel. There is also the uncertainty see what a vast point what a point to be a protection for the community will be provided by the uncertainty seems to be a protection for the community seems. " (side the wheel to present one from tall- bin river demand and it ease from titly ing out of the vehicle and shorthediese trainty cents per fish tion the same in a what appears to be a protection for the connected with it. In hot it the use of what appears to be a protection for the connected with it. In fact, it to use of people in crowded streets against the this wheel increases on the 1 pp. Columnia which in the chops of a long for of his river, the connected heart hear word correct in the struct called Astoric and all others who depend on cupies how, as his tend to the axion has been further have to give up the course has also a had been so that it has been at a loss form it also to not continue to the shape of a process cannot saturate their curved rest, attained to the lower sill of ranks will get sub. There are about the truct of the trout end of the node with his except and to see any makes. the front end of the pole, which serves not mer employed in the loats and rusks a a propositive the cart is being leaded, ing. nets for salmon on the Columbia " and upports the cut on the constant tive when the general quantities wherh of a fall of the extension that the will throw out of work and at the same

The Herea is a one note native une will be come worthless ear resembling an Instrument at comulate. of a tray for the bady, bad above the which on the shafts. It has a carepy | BI ILDING toof the first sits on the front edge of the Powell, in one of his most the tray and the passenger cross legged celebrated arguments said. Let us contribe second spech of the history of behind him. The "Shampony is a site sider the reason of the case for nothing

travellers and were generally used. As and skill, appear to have made no change to their speed, Cicco reserds as a testiuring centuries of experience as at markable test that a nice-age was sent the beginning, so at the and, the kings fifty-six infler in an cisium" in ten hours, stand by the side of the charioteers, or This vehicle is represented on an authent held the reins themselves. The Persons monument as something like the modern and Hindoos introduced luxumous line. provements, and in futty vehicles clevatan emperorate height of the middes above the headart the of the carriage wheel increased. The people, and secreted their women in cur-Emperor Manus Autelius is represented talked carriages. The Greeks introduced in a car of triumph, the wheels of which no mos vehicles, but perfected so ares were as high as the lacks of the horses reessally the useful waggon that their These wheels were dug out of the runs model is still seen throughout Enrope, shewered, it would seem, but selling ried deals several contract cargoes have of Pompeil, very much like our mostern without change of principle or structure goods at the prices they cost you is not content from Archingel, Orega, &c., and of Pompeil, very much like our mostern without change of principle or structure goods at the prices they cost you is not content from Archingel, Orega, &c., and of Pompeil, very much like our mostern without change of principle or structure goods at the prices they cost you is not remained in the content of the remained of Pompeil, very much like our mostern without change of principle or structure goods at the prices they cost you is not remained in the prices they cost you is not your prices. of Pompell, very much like our modern without change of principle or structure and stern are inquired for. Fir states in the iniciale. For many vertational matter what was good, and, wherever are been sold at 77, 74, 6d per standard regulated the decorations upon private possible, improved upon it—from threece, nation what was good, and, wherever carriages but this restriction was remove the waggon, from Persia, the Harma-ed by the Emperor Alexander Severus, waxa, and elevated triumphal cars, and years under the imperial dynasties the according to Cleero, berrowel the im-

the bedy was suspended on long poles, in order to obviate the joliting of the car accent issue says. From an English without springs are lower. A plan of a four whichel vehicle is on record that was used by the Homans for conveying learn that a new device, which has been the Homans for conveying learn that a new device, which has been the days used now in Vienna and Munch.

In Asia tre set of the carriage under listing the large to date lack for 2 m. river, about a mile and a half below the Canadia. This device consists of a jetty of rock built out from a point on the shore of the river, outside of which is a planked stutceway, to which an underknow that few changes have teen made shot wheel with large tank buckets in the construction of Indian carriages revolves. The shiceway was built when The commonest cart in Hindustan is the water was at its lowest stage, and the called -hackney by Europeans it is wheel is hing so that it can be raised or on two wheels with a large axis tree task, lowered as coulding to the stage of water and a long platform, frequently made of The instinct of the salme vis to run up two bamboos, which join in front and the river alongside of the bank instead from the pole to which the executive of in mid-channel. By this is hear take roked the whole length is united by advantage of the edities below jutting smalle, purces of bareboo bent together points of land on these projecting points of fand the Indians have from similar cart sailed shaquet, though in time immemorial taken salmon in large the latter construction the main bound quantities with dip acts. The jetty the latter construction the main toward quantities with diplicts. The jetty terminated in front shafts, but neither that out from the point above named carries. That sades or code, Other makes a larger and longer slock water Indian carriages have slides made by behind it, and the salmon rounding the stakes driven into the side beams the point rush into the sline eway to get up beels are of solid wood, or even of stone. In the sluiceway the wheel. Which are also made by a piank with which revolves in the carent, is gauged rounded eads and two follows litted on to so as to sweep within a feet of the bottom, i complete the circle. They are also made to the salmon are scrapped up into the complete the circle with also made. like the mislern wheels with six or eacht tanks or buckets, which latter let out papalics placed in pairs parallel to early a water as they ascend the the wheel 110 0 other Cirriages for the rich are fugures descending, the fish are thrown out Into

rights from the end of the axietic out- enlined in the bests in the Low a Column male as they struck to be a constant than the permanent plant of the can nerve perfect the can be as they struck to be a constitution of the permanent plant of the can nerve constitute at the can nerve constitute at the can never the can ne

SLLLING GOODS AT COST

The second specified as took has considered from the first of the firs In Calcutta are several coach builders doubtedly - but what descustom amount to If it does not give you a profit? It is not one widt less. It pays to attract

You may an cood in selling large bills of goods we doubt not you would leave the setting sun for the rising sun. and like flies attracted by a light, will hover around your competitor a counters. without giving you so much us a parting good-tye. Of course they will They are not all fools. If you have enable extended its conquests. They were used for carrying letters and dispatches. There was also the wrheils, a slow west of the object of the district of the distr them to live on goods, purchased at less they have now found a men who tawilling to serve them at you old proce and the eaching at cost endy proces their

blessing but your curse. Is not tue stating things as they are We believe In enterprise-there is none too much of it. But deliver us from that reckless, fool hardy merchant who looks not beyond the horizon of to-day, who has no regard for the future, who neither regards the experience of the past nor realizes the possibilities of the future. But what does selling goods at cost consist of? A simple question and easily goods at the prices they cost you is not always selling them at cost. They may seasonable, damaged, or the like. Then It is not selling at cost to clear them out at what they cost rou. It is best to have them out of the store. It would be a loss to allow them to cumber you shelves. Sell them at what they will bring, but get rid of them. Make "lead-ers" of them if you think best, but not if they are badly damaged Let your wheelwrights, smiths, carvers paints CATCHING SALMON BY MACHINS them, and if they should not prove or the

Lumbermen find it difficult to obtain what help they require, and wages are dally on the increase, owing to the great demand in the market for all kinds of

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Sale Manufacturers of the genuine HANLAN, IMPROVED OF AMPLOYED AND AND THE WORLD OF AMPLON OF CHAMPION OF CHAMPION OF CHAMPION OF CHAMPION CHOCK-CUT NAWN. We slee make all other kinds of Cross-Cut Saws. Hand Saws from the cheepest to the very best.

THE LARGEST SAW WORKS IN CANADA

THE METAL TRADE.

THE BRIDGH MARKETS

(it r of American Marufactures) Welverham; too Saturday, August 1 9 ments com that town aggregating 295-Less steel by £1,000 worth was amongst taken on your side in July this year beyou bought that which was estimated at ence judged by money is of course greater than would be indicated by

welp) t America a pr. base of Sheffleld cutlery s of appeared, still that recently the Imenived tusiness in Shesield cuttery mente in July last year of £450. From what I have already said you will right-ly cone ude that the decrease in the total expents during last month compared with a year ago lias been mainly in goods other than steel and cutlety. Compared with the exports of June this year, there is a falling off in the total of more than £20,000, but it must American trade usually falls away very considerably. Here again also the leak-age has been in exports other than steel and cutlery, for both these manufactures show an increase for July over the provious month-as to the first, of £1,500. and as to the second of £5 800.

Solid if allow progress is being made in the export trade of this country as a velicle. Our Government returns for the month show an increase in the total exports in July this year over a year ago of £150 000. Such an increase, when the total of the month's trade is £20, 429,889, is indeed only fractional, but as compared with July of the previous year it amounts to something substantialnearly four millions, or 23 per cent.; and it instead of confining our attention to the month we look at the 7 months. the results are still more satisfactory. I'pon the corresponding period of last year the increase already amounts to £1.834,040, or 1.4 per cent; and as com-pared with the first seven months of 1880 it is no less than £24.300,749, or say 24 per cent. An increase of about one-tourth in our export trade in two years cannot be honestly described as a very the figures to represent the growth in the volume of our trade.

For the first time for a lengthened period, the statistics of our fron and steel absence of any disturbing influence, still more satisfactory results may be looked for under this head in ensuing

months.

On the other hand, we appear to be 4 per cent. on the first half of 1880, as takable fashion this week at the annual losing ground in Russia, Germany, will be seen from the following figures trials close to Derhy of the Royal Agribural losing from from this side. In no debeginning of each of the first three quarters an increase of about has been demonstrated in a most unmission that the province is a specific factor of the first like of the first like for the first like fir partment of our exports do your increased purchases bulk more largely You took double the quantity last month that you took in July a twelvemonth ago. And it is well that you did, since that fact, notwithstanding the returns, show that our trade keeps but steady—the value being: July, current, £560,574, July, 18-0. £549,249. The most con-spicuous decline was with India and British North America. The lower prices on the year are indicated in the general totals, which show an increase in quantity upon the month of 18 percent months the figures stand Incressed quantity, to per cent. increased value,

18 per cent Confirmation of my weekly reports which show the total declared value in July last year to the extent of 18 pc. cent , but in the seven months there is a falling off equal to GG per cens, the £1,5:8,653 of the first scren mouths of last year having fallen to Al. 810,000

this yeer.

but in a riving market such offers h ve thousand of only giving a greater imwere 1d 10s to 20 15s. In Mar bester on the same day the quotations were: (--) - Your purchases from Shotheld I proportionately higher standing as they no pot effording us augmented satisface did at 20 10s. to 20 12s, 6d. Stanford-con. By this time you will probably shire hoops in Wolverhampton should rave learnt that as compared with July be worth by more than Lancashire hoops last year Phoffician apports to the United in Manchester to otton sheets were like-In Manchester | totton sheets were likewise higher in price of both places of
Wednesday Merchant sheets distinct
from galvanizing sheets, which are of
better quality, were in Welverhampton
Letter quality, were in the Leverhampton
Letter quality letter (In Leverhampton)
Letter quality letter (In Leverhampton)
Letter qu States dering last mouth were less in wise higher in price at both places on value or Aliques—last mouth's ships Wednesday. Merchant abeets distinct the goods sent out, the value of that Ly 5s for trebles. In Manchester coming £20,012, whereas in July a year ago ton. On its for export were sought to be placed in Wolveshampton by sacr-227,233 Remembering the relative chants doing husiness via London, prices at the respective dates, the differentiate and Hull but makers were on their guard, and merchants could do but little at current rates - breel has contrituted materially to bring about the in-Americas problems of sum equal to as I have shown, has occurred in our that which relates to steel. Taken in combined from and steel exports during the steel the returns of the July last as compared with the correspondence of the steel of a year ago. Of steel creased tonnage of 13 per cent which, illers point to the fact that whilst the po ding period of a year ago. Of steel trigress which last year we believed unwrought, the increase in the month would mark the business of this date has compared with July last year has been 12,805 tons in quantity and 65 per cent. In value, in the seven months there was an incresso of 34,429 tons in quantity to the value of £27,865 went last month and nearly 20 per cent. in value The to America—an increase upon the ships exact figures are July, 1881, £164,734; 1889, £33,616; for the seven montes ended July last, £355,763, and for the corresponding period of 1889, £796,123 Three increased va ues are likely to sonthus equally conspicuous, if not indeed more so, when the returns for the present month shall be published, for this week there has been a sudden advance in the value of B comer steel. The rise he borne in mind that July and August took pla w in Shelleld on Thursday, are "the hot mouths," when the when common qualities were raised on per ton, and superior makes 8s per ton The alvance is largely due to an line provement in the colonial demand, and this improved inquiry is by some believed to be consequent upon the American harvest being understood to be for ferfor, thus enabling Canadian and other produce to have the run of the home markets The Americans, it is believed, will not be able to send much weight of produce to this country this season. hence the Canadians and others are emboldened to forward freely, and order beavily of English goods. There is every expectation at present of a bravy fall trade Holders of sto ke of Beese mer refuse to make any concessions to induce business, so that it may be confidently assumed that they regard business prospects as very good. Billets are fetching £6 15s. cash at work, but common makes can be obtained at £6 10s. Marked brands run up to £2 2s. 6d. per ton, but the call for these latter are not very good. With extra admixtures of foreign irons, £10 is demanded. Spring makers are again on full time, and this is making to case steel trade a shade busier. Common cast steel is offered at land state of things, more especially £10 per ton, but such steel has to com-when allowance is made for the fall in pete with Bessimer for the custom of the values which has taken place in the in- manufacturers of edge tools, files and terval and the constant inadequacy of other goods. A capital demand continues to be experienced from the United States for best cast steel for tool pur- sure outcide one or two special indusposes, ranging in value from £22 to £40 | rice, and prices remain at a very low per ton, and from this point the price level, as they needs must do while proexports this month show an appreciable graduates to £62 per ton where extra ductive power continues so much in extractions—13 per cent. In quantity and qualities are effered for special tool pur- cess of demand as it is at present. The 6.6 in value—over the corresponding poses. A good husiness is being done totals for 1880. The decline for the in steel plates for circular saws, particeven months is still considerable, but ularly with the American market, the the tide is evidently turning, and, in the consignments from some houses being unusually heavy Your production of pig iron having now mounted up to more than 50 per cent, of our own, is increasing the sense which British fronmasters The improvement again apparent in cutertain of the growing progress-our hardware exports this month appears of your fron and steel industry to be referable mainly to our Australian | The number of furnaces in blast in the colonies, France, Canada, the United United Kingdom during the first halt of States, and the Argentine Republic, this year represents an increase of about

ters of the years :let let let Jan. April: July, Average 497

507 KS9 It will be seen that the highest number in 1880 was registered at the boginning of April, and the highest number in this year at the beginning of January; since which last date the number has decreased by 4 per cent. The stocks of pig iron we have at present on hand would take an average consumption of 124 weeks to clear out. The Scotch pig but of only 3 2 in value. Upon the seven from market has been quiet this week. The rise of freights to the United States interferes with the small business that was previously doing with your side As high as 6s od per touls now asked by showing the augmentation in the innt- shipowhera sending vessels from the ket value of hoops and sheets is forth- clyde to the United States, whereas not coming in the Government statistics, long ago between 4s 6d and 6s per ton was all that was asked. The advance is in July last year to the extent of 18 pc. quantities of bematite pig and the steel blooms that are now leaving Scotland for improving somewhat, but the Trans-America. Some small lots of pig are atlantic demand still disappoints ex-America. Some small lots of pig are being purchased on Canadian account. but the continental domand continues this year; whereas the £202,247 of below the average. Bome holders of July last year rose to £302,245 in July shipping iron are willing to accept 6d per ton less this week than last, but war-No signs of weakness in hoops and rants close the week alightly atronger sheets appear this week tin the than they opened it, yesterday's price in contrary the marmets show greater Glasgow being 46s 44d cash, and 46s 6d contrary the man-ets show greater Glasgow being 46s 41d cash, and 46s 6d atrength. Makers are guarded it all the one month. The Scotch manufactured attength. Makes are guarded n all the one month. The Scotch manufactured Day lires, of Sheffield, and it is hoped and No 1 railway machinery at \$20, districts. There were offers on Change fron trade is steady and a larger amount, that by the spring of next year the works. Cas's. Hammered, car axics may be

per ten and steel plates at £1. The sections with the business of the fron- access on Next to England finished from masters, since they are getting very carepetus to the advance. Consequently in having, as I advised you at the time, talks to whom they trust Welverl ampton the quotations for hoops, just recently secured a reduction in wages under the Board of Arbitration arrangement, the froumasters in the tiles." gow and surrounding Scotch districts. The following were the closing prices during the past week. No institle at the canoniced that in the encount in the London metal market August 12th during the past week. No institle at various has been established in 6 the pay puddlers wages will be reduced at the per ton, and millmen's wages .] but is soing on in the district fron works but so long as production keeps so heavy and reserve stocks see in large to permanial and reserve stocks see in large to permanial to the seminary of t and reserve stocke on large to permanent improvement can be looked for They demand 3d per ton above the prices and only little is going into store. The experts of pigs for the week ending. Thursday night were 2 700 tons less than in the previous week. in the previous week

In the previous week

The finished it in trule continues sate lafactory, though, owing to a taxy opices having been placed of late, the current demand from the subjunction and others. Since the subjunction of the subjunction and others. Since the current demand from the subjunction and others. Since the current demand of the subjunction and others. Since the current demand of the subjunction and others. Since the current demand of the subjunction and others. Since the current demand of the subjunction having been placed of late, the current le not quite so louse as it was l'intes are £6, argles £3 10s and loss £5 12s Gd.

Of all the regions recently issued by the North of England from making concerus, perhaps none is more favourable than that of the Consett Iron Company, available this week. The profit of this company for the year ending 30th June last is £195,070 against £104,497 last vear, which allows of the declaration of last thirteen years are now finished, and the seven new blast furnaces are capable concern are the largest manufacturers of shipbuil ing fron in the North of England, and has the reputation of being one of the meet prosperous companies in the country. They have now decided to establish steel works for plate making upon the Siemens-Martin princip cathe process which has hitherto been chiefly adopted for the manufacture of ship plates. Since only a f-w works have engaged in this manufacture the Consett Company stand an excellent chance.

Improved harvest prospects are favourably affecting the home demand for agricultural and other hardware, more especially in the North of England, and orders, not large, but frequent and urwent, featify to the scantiness of stocks. Tin and galvanized ware, fencing and agricultural implements, brass foundry and construction iron work, are in specially good request. In most of the staple branches there is full employment for skilled operatives, but there is no presheavy branches are on the whole the best

off for employment. Notwithstanding the determination which certain of our leading agricultural machinery engineers have manifested all 4 months duing the past two or three years to invent combined reading and binding machines which should equal, if not beat, the splended machinery of this clars, which for some scasons past agricultural engineers on your side liave has been demonstrated in a most unmis- lots. and three of their English inventions. The American machines were those of Walter A. Wood, the McCormick Harvester Company, and Mossrs. C Aultman & Co. Tue English machines were those of Messrs. J. and F. Howard, of Belford, Mes-ra Samuelson & Co., Banbury, and Mr. H. J. H. King, of Strond All need twine as the binding material, and they were tried upon batler, wheat and eats, inucli of the work being done after heavy rain. Almost from the commencement of the trials McCormack's machine was the favourite, for it did its work in an easier and better manner than any of the others, binding the sheaves in most excellent style. The judges awarded the first prize (gold medal) to McCormick's machino ,a second prize (a silver medal) to Mesers bamuelson, and the third prize (also a silver medal) to the Johnston Harvoster Company. trade of the Southern principality. Un home and colonial account business is pectations. The total exports last week were 6,000 tons. The activity in the Besaemer steel trade continues, with prices averaging £6 5a per ton for rails o b, and all the establishments are well employed. The contract for the erection of the new steel works at

hoop numbers throughout the next year | 10 to | Bleel angles are selling at to of the tin plate trade is interfering rather and a sy now be quoted at a

THE TONDON MARKLE

ATLEI LEAD (per ton).

tin britte (bet por) Charcest, I.C., Istquality 1 ? 8 9 1 4 0 I. C. Coke ... 0 18 0 at 0 18 6 APELTER (per ton)

dpanish pig

linglish (Swansea)

UNITED STATES MARKETS

...1010 0 2 0 0 0

Pittsburg.

Pig Iron-The market has undergone a dividend of 26 per cent. But the dis-rectors tell the elarcholders that tris port. It is still characterized by quietyear's profite will not be so large. The blast furnace reconstructions and additions which have been going on for the between consumers and makers, and the steadiness is due to the same cause. Consumers would, it is stated buy freely of yielding more pig iron than the eight- at prices makers accepted two or three een old ones could yield together. This weeks ago, but most of the latter want more money Time alone must decide which interest will prove the stronger Consumers bought pretty heavily in July and in the early part of August, for August, September and October delivery, but an agent expressed the opinion that when cooler weather comes, so that the mills can be run to their fullest espacity, as is the desire of mill owners, the purchanes mentioned will soon be "licked up, and that prices must then advance. lle says that consumers would jump at iron if makers' prices were a little lower, and that nothing but the smallness of some of the crops, the present hot weather, and the fear of English compotition provents, at the present time, a boom, such such as that which commenced in 1879—for the lessons which that one taught have not yet been forgotten-but nevertheless a "boom" of some proportions. Another agent said that \$22.50 for neutral mill from native ore and \$23/223.50 for such fron as is made by the Isabella and Lucy furnaces, of this city, was all that could be get at present—that consumers would not pay any more. We continue to quete neu-tral mili iron smelted from Pennsyl-vania and Virginia ores at \$22.30 and the same from Lake Superior ore at \$28 @28 50 . Besseiner at \$27@27 50 . No. 1 foundry at \$28 and No. 2 at \$23.50-

Nalls-The remarks of last week will apply this week. The demand continues to be somewhat circumscribed, and prices wook \$3.00, per keg for 10d, to 60d, 60 noavy section American, but \$46 is been sending us, America still leads. This abstement of 10 cents per keg on carload

Wrought Pipe - The demand for wrought pipe and tubes continues very furge, and prices are unchanged but firm Discount on gas and stoam pipe, 624 (103) that double houle are for trial, four of them being American per cent and on boiler tubes 40 per cent Oll well casing is still 75 cents, net, and tuling 22, net

Steel Raits-Prices are without change and demand undiminished. For prompt delivery, \$60 and upwards is quoted, while \$60 is quoted for next years delivery

Italiway Supplies-Prices remain as quoted last week. Spikes 3c per pound, iplica bata, 2.40c. track bolts, 3/c.—all

thirty days Steel-There is nothing new to report. The demand continues active and prices ilem, with an unward tendency works will likely be pushed to their utmost during the remainder of the sesson. Prices are very tirm at the following quotations Best quality refined cast atec, it to 12 cents per pound, as to the quantity purchased crucible machinery steel, about 7 cents, and Ressemer and open-hearth do at 5/4/34 conts, Desseemer upon-hearth spring 44613 cents, and do plow 41/241 cents. Open-directh blocon ateel, 4x6 inches, 565 per gross ton, 38

Old Italis-Tees continuo firm at \$30 and double heads at \$31.50. Wo slid not ters, where t learn of any transactions, but these time ago figures are said to represent the market scales were

days

borap Iron...There is a slight tendency toward better prices, in sympathy with pig iron. Ordinary No 1 wrought may Tredgar has been secured by Mesars now be queted at \$276128 per net ton in Wolverhampion, on Wednesday, and of business is being done. Angle bars will be so far completed as to allow of quoted at \$170.39. Case from samp, panelon and contraction have done more in libraringham on Thursday, to take at arc quoted at about £8 15s, plates £6 the commencement of the manufacture \$154022, as to kind. Old can wheels damage than the scale would have done current outcomes the whole make of some 12s. 6d, common bars £6, and best bors, of steel rails. The unsattaneous state have advanced with It seemer pig iros, if left in.

New York.

Hg Iron - American As, 15 4, 7 some additional firmiess to value 1 No 2 N foundry from and slightly highthere seved for kied tothe fresh pre The fell wine were the choding prices been no change whatever in the mak t class of iron thus fer but an in fine demand, mainly from consumere wit. need the stock for mixture with a tie pig, has undoubtedly stiffened up No. X American pig, while the comparation ly high cost of oid material has a ter dency to draw the attention of cer-authors more to grav forge, and natural ly, to give reason for sellers anticipation tilgher prices. So far as regards the v. ume of business, the reports are not disimilar to those made for some litt. time back Nothing in the way of pa ticularly targo transactions come to tice, at all events, but there are intain takable ovidences of a large movement of supplies into consumera hands, while nothing scome to be fleating round to the way of cheep lots. Makers are, t all accounts, accumulating very little stock. Dealers are carrying moderat supplies as well, while outside holders seem fow in number and not particula. ly anxious to sell For good brands No 1 X foundry \$24 80 225 are becoming the general prices, \$24 now seeming exceptionally low, No. 2 has been moved up to \$22 50@23, though \$... will yet buy some makes not in genera favour. The best brands of gray furgit is represented, bring \$22 without dinculty and \$21 scenis the very lower prices for fron suitable for a Ligher class of work than mah weights

Scotch-There is a very good more ment of most brands, the bulk of which is effected in a quiet way, leaving only a mero filea gained as to its volume unt the goods arrive and pass, as ther do fothe most par, directly into consumers hands. The spot supply continues must rate, and, while special terms may be teamed on good sheel lots to arrive there is nothing short of positive firm-ness on store lots. Glengamock is somowhat higher, but aside from that no change is noted for the week. The quoted prices are about \$21 for Eglin ton, \$22.50 for Carnline, \$22.50@2 for Glengarnick, \$23@27.50 for Garalierale, and \$23 50@24 for Cultness.

English-Bessemer is in good deman! and very sirm at \$24@25. There are several consumers in a neighbouring manner in which they couluse the reportors there is very amusing to say the least of it. One report last work stated that the market was very active with sales of 40,000 tons at \$25, but the prices showed a declining sendency though remarking in the mine breath that \$24.50 was offered and refused for 20,000 tons at New York. Middles-brough pig is also firm, with \$18.50 219 for No. 3, and \$17.50 7018 for No. 4, the very lowest prices. There is a very good demand for the article, and no good resson to anticipate lower prices very soon. Philadelphia correspondents to the con

trair notwithstanding.
Steel Ralia—There is but little demand and but moderate quantities on sale for prompt delivery. The demand for next year's deliveries continues more or less active however, and so far at can be judged from what information sellers will give, prices hold very steady. The mire reported reach about 18,000 tons. American can at from \$55 at mill to \$57 50 at tide water

Iron Ralls-Nothing new is to be reported. The demand seems very fair though mainly for moderate quantities while the sales making are effected at about former prices. About \$17@49 at named as a price not likely to be refused by some makers, while on the other hand as high as \$50 is asked

Old Italia-There bave been quite liberal transactions again, and the mar bet continues very firm. It is stated clique who undertook a similar job 20m* time ago with poor success, but as yet there is some reason to doubt the correctness of the statement. The reported sales embrace 3,000 tons tees at \$475 spot, 1,000 tens do at \$28.25 to arrive in Philadelphia; 4,000 tens double headat \$30 spot, and 1,000 do at \$40.75 to atrive.

Scrap Iron-The market for wrought is very firm, with a good demand prevailing, and only companiedly mulerate stocks are offered. Prices for good lots range from \$28 to \$30, according to position Sales have been reported to the extent of 1,100 tons, mainly at \$27.50 2029 to arrive, and \$28 a 58 50 1 am Plon

Mr Albert Payno Mara - [liave . B tered builers, in which all kinds of water was used at all states of cooling, from the caritest moment when anyone rould live in them, till the last percof the lauter day, and feel sure that a great don't of traulity is caused by blowing of I saw the interior of some tubular bul ers, where limy water was used, a short When I entered them the scales were just hardening, and could be semped off Of course, this would become like porcelein if left to barden . It is more an injury than it is any service to clean some bullets in the way it is done, as I am suro they are no cleaner than before the operation, and the ex-

ti.

DEFICIENCIES

an in the state of the continue of the continu

The result in France is not yet cersinly accretised. Unfavourable reorts from the South have led to a reduction of estimates on this side of the Atlantic, which, from the present onlook, are not likely to be verified the production in Southern France in ter limited, and the reports from those sections which raise the bulk of the op are very satisfactory, while the to exceed that of last year. Taking these facts into account, the Paris Eche tyricole cetimates the yield at 115,000.190 hectolitres, or 326 400,000 bushels,
which is about 36,000,000 bushels over so average crop. Moreover, it is supyears crop remains in farmers'

The foreign supplies needed by these two chief importing countries combined are therefore likely to fall considerably short of those required last year lineis, if things remain as tavourable as nitherto, should be in a pasition to send them 30,000,000 husbels more than in 280-81, and the Pacific States will have atout 35,000,000 bushels more for shipnent than last your These facts will adicate approximately the importance I the probable docrease in the exports of wheat from the Atlantic ports during the current crop year - N.). Commercial Lalleton.

THE ADULTERATION QUESTION

to present the matter of adulteration to the Best session of the Massachusetts Legislature, and, if possible, secure the pactment of a stringent law to provent this practice in the future. Grocers have for a long time considered with apprehension this growing evil, but there has seemed to be no remedy competition has been so hitter that prices have been placed at very low figre, and consumers, intent on buying where goods could be obtained the heapest, have not considered the question of purity. But then the goods are enerally labelled "atrictly pure," and consumers believe it to be fact, not knowing that it would be an utter imsumets, are willing to pay

To indicate the alarming pass to cos was \$1,007,233 vouched for by l'resident Lovell, is an ty. This the grocer did, pronouncing the spices perfectly pure. "Yes," said the spices perfectly pure. the salesman, "they taste all right, and look all right, but there is not a grain of pure spice in them ! What say our resders to this? Is it not time a reform was inaugurated? Another member said he had last spure ground hepper offered him at half the cost of the her-

after all, the real underlying cause is the chine," such as is used in flour g mills. spirit of the times, the intensity of competition, the reckless, devil may care
patition, the reckless, devil may care
patition, the reckless, devil may care
patition. vistem of conducting business. We to a mixing tub, where a small quantity have drifted too far away from the old of steatit flour similarly manufactured is moorings of honcety and underlating reciliude. Let grocers resolve to sell whele being made into a stiff dough only pure goods. Buy only of dealers will guarantee the purity of the over across the way will continue to sell | where it is made into " charges" or short is the case, how can I retain my cua-To be sure I ought to obtain much patrenage because I cell only pure goods, but consumers will not so consider it. They will assert that my neighbours goods are as into as my own, they taste as well and took as well.

PARISH AND FRENCH WHEAT that can be offered. But the net still remains that such as the net still In brought about in every town and city Figlinds imposes of fereign locals modern about in every town and city. The next sounds is the law let out, readers use their into not have the past cereal meters the time of the past cereal we have the law time. Vermont, the least to the law tamest and, a high authority least of stringential matters, writing to the concentration are authoritions.

the initial crop of white with the new ment sympaths with the test of particle quarters, or 76,000 000 marks of that member of the Assact of the Medical transfer of the Assact of the Medical transfer of the Medical transfe their the number to be 24 cunting to afford to pay a high takes to be 24 cunting to afford to pay a high takes to be 24 cunting to afford to pay a high takes to the audies. obsetts and the voild terre 120,000,000 and or their ros. The law should be which would be replaced by the last analysis at the ninimum, and the guilty this to be imported. For the last analysis at the ninimum, and the guilty the last to be imported were about 130 a marrie should bear this even the continue. rishels to be imported. For the last analysis at the ninimum, and the guilty recally or the imports were about 130, party should near this exponent of the real your bushels. So that the wants of last sear would, on this had have pairned off on him impure goods extinute, appear to be monopous our belief that the manufacturers are chis telow those of last, assuming with the formula unchanged. Since would nuch prefer to its the dament in the colors estimate was made the would much prefer to its the dament. willing to put up pure goods, in fact they would much prefer to it is the demand and the limital deliciency has probably an interfere, may be expected to require matter should be conducted in a rational approximately the same quantity of sagns, without reference to the sentimentation wheat as last year.

STATISTICS OF THE SALT INDUSTRY

The Washington correspondent of the Detroit Post and Tribune writes In addition to the date, given in my dispatch of a few days ago, in regard to the census statistics of the salt industry, the follow-ing are equally interesting During the cenaus year 1880 there were in the United States 264 sait manufactories, employing a capital aggregating \$8.25, 740, and operating 539 wells. The greatest number of hands employed at any time during the year was 500%, of whom 3,920 were males above 10 years of ago, 13 females above 15 years and 140 children. The total amount paid in wages during the year was \$1,256,113. The materials used in the manufacture of salt by the "holling process" were 453.846 tons of coal, valued at \$495.929 , 840,434 cords of wood, valued at \$431,681, and other materials, valued at \$1,086,036 making the total value of all materials \$2,005,576. The total value of all materials used in the manufacture by solar 073 Larrels, and of the second quality | therefore, is light. 40,058 barrels

The State of Michigan had the largest number of catablishments (86), and, with The New England Retail Grocers' Association did well, at its last meeting, to appoint a committee, who, in conjunction with a committee from the Wholeston with a committee from the Wholeston present the matter of adulteration to present the matter of adulteration to the matter association, are authenticated in the matter of adulteration to the matter of the Massachusetts. ployed, which at one period of the year reached 1.3sG, the average number employed being 1.216. The total amount state, the average depth of which was BHI feet

The machinery us of in the manufacture of sait by the ledling process was 104 blocks and 174 kettles, the aggregate capacity being 21,352 gallons, 54 juna, capacity 2.11.257 gallons, 247 settlers, capacity 6.16 s.246 gallons, 361 grainers, capacity (323,901

There were used 324 653 cords of wood valued 8377.039 For other materials possibility for manufacturers to sell 3023/204 were expended. The total value pure goods at the prices they, the con-

The machinery used in the production which matters have come, the following:

ly solar process was 3.759 tata whose
roughed for by President Lovell, is as
area was 807.300 square feet. The total had \$2.313.590. In 1870 Michigan had \$1,717,500 and New York had \$1,384 211 In 1880 Michigan \$2,174,209 and New York had \$2.250,081

HOW SLATE PENCILS ARE MADE.

In making state pencils, broken state is put in a mortar run by steam, and jounded into particles. Then it goes will? To acertain extent, perhaps that, into a mill and runs into a shorting manner. added, together with other materials, the

This dough is knowled thoroughly by passing it several times between iron Thence it is conveyed to a table hapure goods at low prices, and, if such cylinders, four or five inches thick, and containing eight or twelve lbs each Four of those are placed in a strong fron chamber or "refort," with a changeable and gentle. Prince Henry had a friese nozate so as to regulate the size of the ante out of it, et. He aids, "It will pencil, and subjected to tremendous hydraulio prossure, under which the composition is pushed through the will con- nozzle in the shape of a long cord, and There is passes over a sloping table slit at right and no amount of argument will consider the shape of a long cord, and since them to the contrary. There is passes over a sloping table slit at right much truth in the above, indeed it is angles with the cords to give passage to a stutch. The way to children this difficulty is for all the gracers in a town to They are then laid on boards to dry, and after a tew hours are removed to sheets that all Walshe Frices whiche after the rad desired and bring about a much fing to prevent the pencits from warping within the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the process of laking, to which and l'embrake, or anyo of them, or else-during the process of laking, to which and l'embrake, or anyo of them, or else-during the process of laking, to which superficitly and l'embrake, or anyo of them, or else-during the process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to be as etc., apply to CAPT. MarCUAI for the shires of Cardigan, Carmeden it is new process anomic prove to the shires of Cardigan, Carmeden it is new process anomic prove to the shires of Cardigan it is necessarily and cardigan it is necessarily and cardigan it is necessarily and cardigan it is necessarily pure goods. This would accomplish the of corrugated sine, the corrugation serve

POSTAL TIME-TABLES. POSTAL TIME TADIE.

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tiffice hours from 3 a m to 8 p m. For Savings' Bank and Money Order bu ,ners, 9 s.m. O. P. DAKER, Pos.mester.

9.00

in pipes, the temperature being regulated according to the requirements of the article exposed to its influence

From the kiln, the articles go on to the finishing and packing room, where the ends are thrust for a second under rapidly revolving emery wheels, and withdrawn neatly and smoothly pointed.
They are then packed in pasts board remais used in the manufacture by "solar withdrawn neatly and smoothly pointed evaporation" was \$65,84%. The aggregate product was 29,800,29% bushels of salt; value \$4,817,636 of the first quality there were manufactured 3 702, the work is done by boys, and the cost,

ORIGIN OF PRIEZE

I was is supposed by etymologists to be a supposed by expinion to be saved from its being a mapped cloth (Welsh frie, map of cloth Uld E and It fries, Fr. trues, to our!) In this sense Guicelardini, in his " Description of the Netherlands" first published in 1560. says that the Inbabitants of the country were famous for cloth & freer, napped paid in wages during the year was cloth. At the same time the invention \$340,002. There were 203 wells in the of the stuff is ascribed to the Netherlanders by the same bistorian, and it is quite possible that the name may come from the material having originally been of Friesland manufacture. Later the name was applied to a linen, for in 1641 we find "Linen of Freeze" mentioned, and in 1671, under the head of Linen, "Freez Cicth." It appears to have been very early a distinctive Irish product. In 1370 (50 Falw. III . c 8) it was enactoi, "That no subsidy nor aulnage duty should be paid on cloths called frize, which be made in England or Ireland of Irish wool, because three cloths did not contain the length or the breadth ordained by the statute, " and similar exemp-tions were granted by Acts of the second rouched for by President Lovell. Is an area was \$67,300 square test. In this good an illustration as is needed. A value of nil materials was \$2,500. Wew York salesman, representing a New York salesman, representing a New York spice manufacturer, entered a store in this city, not long since, and, unrolling his samples, asks the greer to tasts them and give judgment as to their quality, 2,459 005 barrels, second quality and in November, 1330, there is an entry them and give judgment as to their quality, 2,459 005 barrels, second quality and in November, 1330, there is an entry the she grover did, pronouncing them and give judgment as to their quality, 2,459 005 barrels, second quality and in November, 1330, there is an entry the she grover did, pronouncing the property of the same reign.

30,172 larrels, in §1860 Michigan had at 60 will cots of fiere, and for il doubset. and twenty-fifth yours of the same reign. 4d for "ij cots of fireze, and for ij doube-lette of flustyan, and for making and lyning of the same for Henry Elys, the fawconer."

From the well known lines written on the marriage of Charles Brandon (Duke of Saffulk) with the Uneen Downger of France, alster of Henry VIII -

" To Mary. Cloth of gold, do not despise To match thy self to cloth of fine.

Tu Charles

l'isià of frise, be not tro bold. Though thou art match to cloth of gold."

We might presume that frieze rarely formed the dress of persons of rank, but Jamieson, es rece, quotes from an inventory of 1539 Ane goone of freis claith was more generally adopted Fuller from it. I'mof of this we find in the will spreaks of it as a coarse kind of cloth of Raiph Cleasly, 1562, wherein is bemanufactured in Wales, "then which questhed "one night gowne of frees, of gold In the following century frieze none warmer to be worn in winter, and the fluest sort thereof very fashionable the gentry of the land, Lying much imporcished, abute much of their gal-out brains and all. - Chiefle. daily grow more into use, especially since lantry (Fullan Worthers)

An Act of 1551 also makes mention of frie-o as a Welsh manufacture, and specifies the counties which were par-ticularly noted for its making "And feast aforesaids shalls made and wrought

POST OFFICE, MONTREAL.

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Parket leaving 6th and 24h July. LOCAL MAILS. .|6∞ Beanharrole Route.

Il 7. Resubarrois Route.

Boucherville. Contrecour, Verennes and
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solice
By Packet from New York for
Rosland (Wednesday).
By Hamburg American Packet for
Germany (Wednesday) د د ده ا WEST INDIES.

Letters, etc., prepared in New York are forwarded daily on New York, macure mails are de-spanched eraiched for Havana and West Indies, wor Havana, overy Thursday p.m

Postal Car Bags open till 8.45 a m and 9. P.Di.
11 octal Car Rags open till 7,00 p m.
The Street Bases are visited at 8.15 a.m.,
12.30, 5.30 and 7.30 p.m.
Registered Letters should be posted 15
minutes before the hour of closing ordinary
Mails, and 30 minutes before closing of English Mails.

in lengths at the water thirtie-sixe yards at the most, ranks and yache of the rule, and in bredithe thre-quarters of a yarde and being so fullio wrought shalle wayo ev'ye hole poos fourtye-eight pounds at the lest, and everle halfs peccof Welsho Frices beinge full wrought, as aforosaide shall conteyne in length, bredith, and weight after the same rate."

fryce," and that frieze was made in finer qualities than we usually associate with the material must surely be evident from men's night gowns having been made from it. I'mot of this we find in the will being valued at 16d.

"Listly came Winter clothed all in frize."

Succest: Faces Queen.

"But indeed, my invention comes from my pate as bird-lime does from frize: it plucks out brains and all. - Challe.

"Worch warman and Draper.

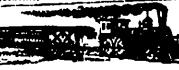
A Naw York man is said to have discovered a process for the manufacture of sulphate of quinine from cost tar. The trains it events listed in the article is a heavy one, and if the new process should prove to be as successful as it is anticipated by the in-

BAILWAY TIME-TABLES.



Canada Central Railway. CHANGE OF TIME On and other MONDAY, 2. 1 W.NE.

trains well run as fellour -



ST. LAWRENCE & OTTAWA RAILWAY.

On and ofter THURSDAY, 19th JUNE, 1880, trains will run as follows .-

LFITF OFFITTE. For the East, West, South erd 11 15 a.m. 200 j.m. For the East and West 10 30 j.m.

Resubarrois Ronte.

Boucherville. Contree cour, Vareanes and Vercheres Cour, Vareanes and Vercheres Cot Mt. I'sal Good 2 on St. Justine and South Cot Mt. I'sal Good 2 on St. Autoine and Notre Dame destrace Good 2 on I sentine Good 2 on I sentine

Q. M. O. & O. RAILWAY. CHANGE OF TIME.

COMMENCING on Wednerilay, June 23rd.

10 15a	Co.1215761	מטי ווא	ar follows	
2 30	<u> </u>	Mixed.	Med.	Express.
(& 8 8 00	Leave Hoche- iaga for Hull Arriva at Hull	1.00 4.70.1	A,70 m.m. 12.40 p.m.	
	Arrive at Hail Leave Hail for Hocheless.	1.00 a m.	5.20 a.m.	5.06 p.m.
7 0	Net line at	10,70 a.m.	12.50 p.m. Nizbi	4.15 p.m.
		1	Parreuger	1
8 23	Leave IInche- legator Que- beo		10.00 г.ш	3.00 p.m.
2 15	Arrive at Que-	S'on L'EN	i 61.30 a.m	0.20 Jum.
2 15 2 15	for Hocke	5 30 p.m	. 11.70 tr te] 10.10 a.m.
l	Arrive at lichelera	9.09 8.50	. (-,39 a.to	4.40 p.ss.
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nd 9.1	Arrive a	ľ	9.90 6.17	a
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[Local r 'es between Hull and Aylmer.] Trains le ve 21 o End Station serea min-Bir Binmificent Priege eine en al enger entitierent av leee ears ou all pass-enger entities nu ele au elee jing cars ou nigur trains. trains,
Trains to and ling Ot. we connect with
trains to and rom Quebec.
Eunday trains leave Montreel and Quet All tisins run by Monteral time.

ORVERAL OFFICE, Il Pirce d'Armes & cure Ticker Office, Il Piace d'Armes end 202 St. James M., Monreal, and opposite the St. Louis Hotel, Quebec. I. A. SENECAL. Goneral Surgenniendent.

INTERCOLONIAL RAILWAY.

weight after the same rate.

In 1618 Lord William Howard paid
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Sparks St., Ottawa.

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BRASS WORKS

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CAMILTON COTTON MILLS CV., Hamilton.

- Penins, tickings and years.

turer or every discription of cotton warps in Lyanas.

EDGE TOOLS

If. T. WILCON, Dandas, Ont.—Manafecturer of Aver, picks inattocks, grab boses and rails by contractors' supplies. ENGINES AND BOILERS.

U. C. MORRISON, Hamilton. Engines, boilcos, steam bannary, etc.
THOS. WILSON, Dundar, Ont.—Manufacturer of state hard and nortable steam
metors, boilers and natchinery of every
is setlython—custon millicalenders, horiery
steam presses and projectler wheels, all sizes,
successes and measuremery.

ENGINEERS AND MACHINISTS. total Exemples and machinese. Machine Exemples of Machinese of Indianate of Indianates. Machinese and machinese story and power passenger and male plants.

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REDERICK BALSCH, Cote St. Paul. Monitreal.—Manufacturer of every description of hand made size and ray:

FILE & SPRING (a). Cote St. Paul. Monitreal.—All kinks of size and springs. Files recut. Sole manufacturers of Shauldings inton: concaved spring.

(A) OFTRAM & SON Temploin File Works, Montreal.—Manuf. Springle description of size and rays.

Filshipting

FURHITURE ESTAWA CARINET CU., Othews, Ont. Furniture Manufacturers. Toronto branch,
'O' Yong St. 1 Montreal branch, 617 and 619
Notre Dame St.

Notre Dame St.

MKRICAN BittACKET CO., Heraliton, Ont.

Manufacturers of all kinds of large farmiture, brackets, etc.

TEES & CO., 11 St. Honaventare St., Montreat — Manufacturers of office decks and
revolving bookesses,

JAMES Wittell T & CO., 11 to 17 Hermino
Rt., Mostreat—Church, Lank, house, store
and office Bittings, art furniture and inlaid
flours, etc.

Elseewase

GLASSWARE.

ITAMILTON (ILASS OD., Hamilton.—Manufacturers of flux and green elassware.

GLOVE MANUFACTURERS

W. H. STOREY & SON, Acton. Ont —Manufacturers of Dos gloves and write in every antisty and style.

Manuelee

HAMMERS.

HENRY H. WARREN, Cote St. Paul. Montreal.—Manufacturer of every description of hammers, sledger, hatchets, contracture tools, etc.

HUBS, SPOKES AND BENT GOODS I. W. HORE A SON. Hamilton, Ont.—Manufacturers of hubs, spokes, rams, shalls, poles, sieigh and cutter stuff, etc.

F. F. DALLEY & CO., Hamilton, Ont.— Nanufacturers of lake, blackings, harners tels, perfensery, etc.

IRON WORKS. CANADA SCREW CO., Dundas - Manufac-turers of iron and bress screws buits and tivets.

CONTAN & CO., Gait.—Manufacturers of every description of wood working machin.

Aktura brown A co.'s permotivus servar DOMINION BOLT CO., 139 Pront St. Fait.

Toronto. Manufacturers of every dition of boiles, but pressed mute, rapides, bridge, boller and from rivets. railway II. R. 13'85 & CO., Montreel.—Hardware manufacturers and fossilers: from railing and on smental from work a specialty.

and on unested from work a specialty.

II AMILITON BEIDGE & TOOL CO., Ifamilion.—Iron pallway and hishway bridges and from working machinery.

McKRCHNIE & BERTRAM, Dundan—Machine tools and wood working machinery.

THE OSHAWA MALLEABLE IRON CO. It belows, Ont.—Manufacturers of malleable from a also patent serse wronches.

OLMSTED & KON, Hamilton, Ont.—Manufacturers of fountains, fences, crestings, han, and statuary, wagen sheins, etc.

KNIFE WORKS.

RHIFE WORKS.
THE WHITMAN & BARNES MANUPACTURING TO., St. Catharines, Ont. - Manufacturers of recoving and resping leaching knives, sections, grand plates, cutting apparatus complete, pring keys and cutters, etc.

#HITTING MILLS.
S. LENNARD & SONS, Dundas—Manufac-turers of plain and fancy hosiers.

LEATHER BELTING DOMINION BRITT AND HORROW, Toronto, —Oak tenned belting, lace leather, etc.

ROBIN & SADIAR, Montreal - Monufac. 10 346 terers of every description of londer belling. ORGANS AND PIANOS.

UNEARS AND PIAGOS.

WM. INCI.A CO., Chelph, Ont.—Manufacturers to the traile.

BOLTON & SMITH, 167 Mountain St., Montreal.—Twains and rejeiting attended to.

LANIEL BELL. & CO., Toronta.—Manu.

facturers of the "Excelsior" organ.

COMMISSION OF THE STATE OF THE STA

DOMINION ORGAN AND PIANO CO. Downsarille. Gat. — Manufecturers of Planos and Chilmet Organ. See advertise-ment in another column. M. M. WARREN & SON. Toronta-Manufact-urers of church organi

DOMINION TRADE REGISTER

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COTTON BROKERS

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SHURLY & DIETRICH, thatt, Out Manufacturers of circular and cross out case, plastering fromels, etc.

SEWING MACHINES, ETC W MILKIE, duelph, Ont - Manufactures of sewing machines, apple press, egg besters, sai trops, skates and baidware novelties

SCALES.

CANADA SCALE Wishers, Jas. C. White &
Co., Toponto.—Manufacturers of all kinds
of standard scales. Factors flux Adel. 10
St. East.

St. East.
C. WILSON A SON, 45 Estlanade Street.
East, Tompto.—Manufacturers of the Improved Milson Scales Resigners to the
Government Received 21 first prince,
medial and tionernor General's grand
disloma. ia \$1 98 in tank Parker, Titusville and Brad latest quotation les in ta g

diploma.

HOWE-SCALE CO., G Yonge Street, Toronto—Those in want of scales will find a larger and better assorted stock with us then at any other House in Untario.

SPICES, ETC. R. D. VAN DE CURR & SON, Toronto - Manufacturers and importers of coffees, spaces, cream tartar, murtard, ctc.

STEREOTYPERS, ENGRAVERS, ETC. E. DIVER & CO. Toponto. Electridajere and sir objets. Designers and engineers on mood.

WM. CLENDINNENO, Montreal - Street, ranges, furnaces, failure, and machinery castings.

TELEPHONES. STOYES.

HOLT TELEPHONE CO. Toronto -Tele-phones wild outright 35 to 30 per part, wire & to & per rod; works two toiles. TRIERS.

BUTTER & CHLESK TRIERS.—Robert Donaldson, Montreal, inchafacturer of pump ausers, butter, cheere, flour and sager friers,

WIRE WORKS.

D. GRESNING & (1). Hatalian, Ont.—
Manufacturers of wire topes, cloth and general wire workers.

MAJOR & OIBB, Glo Craig St., Mentreal.— Manufacturers and importers of wire cluth and wire goods and dealers in rallway and mill supplier. tall supplies.

TIMOTHY GREENING & SONS, Dandas, Out - Massfacturers of the strongest that seriation of steel were cloth, task half Sours, and general were wearers.

WOODEN GOODS. C T. BRANDON & CO. Toronto-liste special facilities and machiners for the manufacture of all kinds of wooden atticles. Correspondence solicited.

Untrespondence solicited.

J. R. McLAREN, Jr., of College St., Montreal.

— Manniacturerof tharpe's patent safety oil cabinets: also, refrigerators, children's catts, wargons, eleigns, and general wooden-

WOOLLEN MANUFACTURERS.

J. ROUTH & CO., Cobourg.—Woollen Manu.
facturers.

JOHN WARDLAW, Galt. Ont.—Manufacturer of Scotch fingering, wheeling and according to brand knitting years.

Figure 19

WOOLS AND COTTON WARPS. WINANS & CO., Toronto. - Dealers in worls and cotton warps.

PETROLEUM.

THE CRITISH MARKET.

Lozooz, August 20th 1881.

report liusiness lias been rather more lively, and a good quantity of spot oil has gone to the trade. Sellers of forward oil have been hard to find except at an advance, and altogether the market leoks more steady. Prime and Standard White Pennsylvanian sold at and 6 13-16d. to 7d. up to February, a shade less being accepted for the pearer months

To-day's market closes firm. spot and to Dec. Jan. Feb. 71d.

Naptha.—Sellers are rather easier but the quotable price is still leld, crude and Hd. Deoderized.

Coal Oil .- Nothing doing

Turpentine -Business has been active and a sulstantial advance established. The week opened at about 30% and close LASTS, DIES, ETC.

CHIASCOLIFILISS, Nontreal—Manufacturer of leather, upper leather, enveloper, lorger, caffe, and juper collets.

Chiast and place for cutting wie leather, upper leather, enveloper, lorger, lorger, lorger are about 3000 terms and delicities and juper collets.

There are about 3000 terms and terms and several are several as a but we believe a large proportions will be delivered overside. To-day's market loses firm, apat ans , Sept Bec. '17s, Gd.

PATROLEL M OIL			
Prices of w. / W. Petro- Jecos	N. York. 7	e N York. 2)c.	
Stock this day	Refined. C 97.419 bbl. 2 102 es. 1,605 bbl.	107,579561. 1,764 cs.	
Delivered last week	7,517 661.	3,253 6611	

THE MONEY MARKET.

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Uttana Uni will den Uni will den Uttana Uni will den Uni Petrol a, (Ont) .. 80 19; d (1) per gall. a.eli.

The above are wholessle prices per Importal gallon at which renned off is sold by the car load the price per single barrel is generally from le to 2c above

these figures.

The latest refined oil quotations in New York market are as follows :-Cargo lots for export, 1109 burning test by the Saybold tester, He per wine

gellou. Refined oil for the New York City trade, in late of 50 to 100 immets, 1006 flash test by the Tarliabue prometer,

9c. per wine gallon Refined oil of 159 burning test, Prime White, ofe to 100 per wine gallon, water white He to 14c per wine gallon, according to brand This is the kind of American oil usually pur-chased for the Canadian market, and is coming into general use in the United

Cases of refined oil for export, 1100 burning test ranso lots, 111c to 124c,

	* * * * * * * * * * * * * * * * * * *			
		Samuslam per bil	i.	
•	Betzine Ulien-20 10 grac.,	0 12, # 0 15 jer gell	•	
ı	Laradus Cardle.	0 14 M 0 21 per 16.		

DEATHS FROM INDUSTRIAL PURSUITS.

Some startling facts respecting the imount of sickness and death which re-Refined Petroleum Oil.—Since our last suit directly from the circumstances under which industrial pursuits are carried on have lately teen discovered In England, where they have been brought to the attention of the authorities as a subject worthy of investigation with the view of amelieration. One statistician who compiled tables on this 6 11-16d, to 6 d per gallon on the spot, subject in 1877, giving the records of deaths and injuries by stoam bollers, in mines, on railways and in factories, estithese causes during the four years pre-ceding 1877, at a total of 107,000 men, following causes, namely, 300,000 in needed mines, 70,000 on relivage and 100,000 in factories. Abother writer on the same subject.

allogether too small, and that the accidents reported comprise only a small part of those that actually take place Hels of opinion that not fres than tos,000 persons are annually killed in England

These statements, which are doubtless based on reasonably accurate data, are sufficiently appailing to arouse from its traditional sang froid even so inert and conservative a body as the British House conservative a only as the printed mount of lords. Taking even the lowest callaon, M.P., has contributed a paper to the intended. The question of site remains
made of mortality from industrial accidents as the safest basis for estimating technical education in Saxony, in the
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its reckless samifice of human lives, be- that our come far less horrible when a company. son of the number of victims is instituted

LABOUR IN ENGLAND AND GERMANY

Those who have followed the course : exampetition between this country and the continent in a teamulacturing sees. have always attributed much of the success of the German, French, Belglan and mines, on railways and in factories, esti- Austrian firms to the many advantages mated the mortality in England from they enjoy is respect to labour. Their men not only work much longer lours weekly, but are juid a lower rate per hour or ner day in many of the trades women and children, and he estimated, hour or ner day. In many of the trades on the lease of these facts, that 500,000 of Germany the men work ten days withworkmen will lose their lives during the out any countion, and the machinery is ten years from 1817 to 1850, from the always going except when repairs are In Franco seventy or eighty hours weekly are made by the majority of the artisans. Comparing these with the fifty-four or fifty-six hours of the criticising these neuras, thinks they are British workman there need to no surprise whatever at the lower prices and vignment competition of our continental rivals. Our reports of the exhibitions now open in different parts of Germany show that in that country pretty nearly from causes directly resulting from the all classes of iron, steel, hardware, industrial occupations in which they are metals and machinery are being made on a large scale, and prove that whenever protection is abandoned we shall have little or no chance of regaining the markets, in addition to baving to face a competition even more vizorous and univers-

about 40 per cent. lilgher than those of Sexon manufacturers, to my nothing o longer hours. At a locemotive shop i Chemnitz the average workly wages : the labourers and mechanics are 16s 4d ns against 284 in Lancashire and York shire. This constitutes an almost start ling difference. We have no wish to seti a wages of the English artisan brought down to the level above mentioned, but the facts as they stabil deserve caretiattention, inasmuch as the centinganer of this disproportion can only have the result of still further diminishing on czjwił trolu.—*Ir*onmonger,

Cakum is represented as a good and chesp material for filling wheels used in tmnsnilttlog power by wire rope

Three hundred Russian pobler has organized themselves into an arti-Nila list longue, to be known as the "Sacre! Legion." The large funds at their control, their great influence at court, anthe completness of the system of secret organization they are alout to establish will make theleague much auneries to the ordinary accret acrvice for unmirellia. and meeting Nibiliat plots.

The scheme for the construction or s graving duck at Halifax has received the final consent and support of the Imperial Government, with the atipulation that the dimensions of the dock shall be somewhat prester then was at first introded. The question of site remains the number of ; early deaths from such course of which he institutes comparise tics will be willing to lefthe company on a state of the control of labour at Choinnits. found that the "horrors" of war, with and in England, and in which he shows porty at Hallian for the purpose.

HAMILTON COTTON COMPANY. namilton, ont

Carlo Carlo Carlo HOSIERY. YARNS

ANTTING YARMS, BEAVER WARPS, 80,

DENIMS AND TICKINGS.

MOIMINOM CARD CLOTHING WORKS.

W. R. GRAY, Proprietor.

Card Clothing and Woulien Mill Sapulies.

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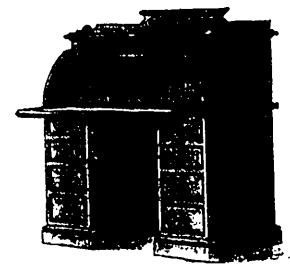
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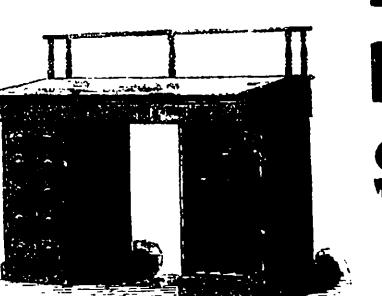
arbleized Slate Works

HAMILTON, ONT MARBLE AND MARBLEIZED SLATE MANTELS.



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Excelsior Organs

Acknowledged to be the most serviceable Organ in the market.

ALL HONORS TAKEN WHEREVER SHOWN

SEND FOR NEW ILLUSTRATED CATALOGUE AND PRICE LISTS.

DANIEL BELL, SONS & Co.

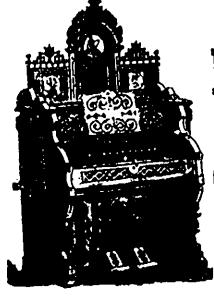
Manufacturers to the Trade,

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P.S.-NO BRANCH FACTORY AT GUELPH OR ELSE-

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ORGANS, CABINET

32 King St. West,

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COSGRAVE'S VIENNA LAGER.

NOW READY: THE PURE AND WHOLESOME SUMMER BEVERAGE.

PROF. CROFT'S ANALYSIS.

I have examined it chemically, and find it exceedingly pure. I have no hesitation in certifying that it is as GOOD LAGER BEER AS I HAVE EVER TASTED, and that it is a PERFECTLY PURE and therefore WHOLESOME BEVERAGE.

The TRADE and FAMILIES supplied in Wood and Bottles.

Orders by Post promptly attended to.

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Highest Awards and Two Silver Medals at Dominion and Toronto Exhibitions, 1879 and 1880.

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TORONTO,

Were awarded the FIRST PRIZE for their LARDINE and other |

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At the great Industrial Fair, Toronto, 1830, and

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At the Provincial Exhibition, Hamilton, 1880.

"er Tiele far lie Mi. " ne fill wiensel, by auth rity of the Association, on all the machiners at both Tairs during befour weeks, and presell a sery supercivit.

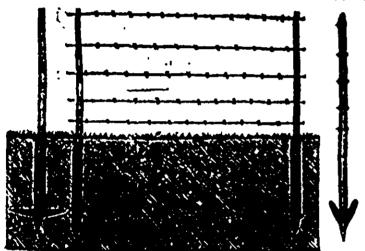
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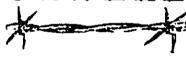
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the interval of an active medium transporter, belog
which dead around any stream line wires, not that the
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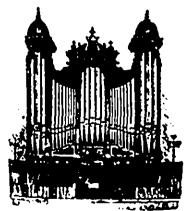
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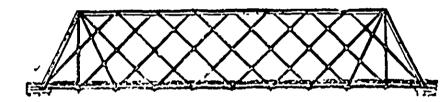
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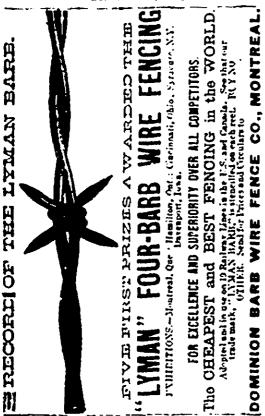
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