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## FENWICK



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ASBESTOS GOODS,
Or all Kinds.
Filot ana Xatpan emat quality:

 and rubber.ssiod, for yulla, Yaotories, Hotale, ota

Hand Fire Engines.
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Enubber Beithory from 1 to 72 inchee wide. Eloso, for conducting; tuction 3ind steam. Factinay, Cloth Inaertion and gure. Taknery of all tioda.
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COLTEON GOODS -Gres aud White Cuttons, Oraln Rake, Warpe, Yarios, Cheched Shirtlogh. Ologhasus, Ti:kinge, Bebles :nd Cut tunaited.
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ast Send yon Puioks axd Ciachlates.

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Sal Scda, Soda Ash, Blenching Powder;
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Mnuufaturers of every description of Cut Nails; J'sols, Brade, Raile'ay and Irrened Spikes, Elorsen Shopes, Carriayes Tire and other IJcise, Cuath Sciews, Hot I roseed and Forged Cíuts, Felloe I'Iates, Lining and Suddle inals. Inftin; Buttone, Exco, Re

The Elarjwrre Traile, Shoe sna Lenther Finding Dcalers, and Bont ind Shoe Strnu\{soturern, will i:nd the. Iarbest and Best? isoortinent and Greatent Viriety of aborè Gocels always in stock, and cinin rely nu urcers being midily execnted, iur facilitio for: doing so lring maenuayled.
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Vol. VI.


## Benjamin Butterworth's Bill.

## tHE GREAT ANNEXATION SORORIFIC

## PANACEA FOR ALL INTERNATIONLL DISAGREEMENTS.

This Great American Remedy is Warranted to Eradicate
CANADIAN NATIONALITY, CANADIAN INDUSTRIES, CANADIAN COMMERCE.
 celehrated New Yurl: Sus" political loniom lius."

## TESTIMOINIAIS.

$$
\begin{aligned}
& \text { No Board of Trade shoul.l t.י withont it. --J...! IF. D.....!!. }
\end{aligned}
$$

DIERETMOINS.
"Betore taken to he well shaken."
COST TO C.A.N.ADIANS =
Small Dose.

## TO 'ANADIAN MANLPACTV'RERS.

Tus feeling regarding commercial union between Canada nad the l'nited States is mpidly deepeniag and widening. Those who favor the surrender of Camelinn individuality, and propose allowing the United States to make our tariff laws and regulate our financial resources, are active in their efforts to, ereate public sentiment in thein tituor.

The Conndian Manuacturers' Association are taking a concensus of views of Canadian manufaturers on this subject, the object being to discove the sentiment exinting among them on: this most important matter. To obtan this a circular wan sent cut to them with an enclosed postal card on which tha recipient was requested to state whether he was in favor of, ot ugainst commercial union, the replies being very eneneral. It is pussble that through inadsertence some manaintarels mat have failed to receive the circular alluded to, and it any such; there be, they are repuested to immediately indicate their pre. ference in the matter by simply writing on a postal card, ". Igainst Commercial Union," or, "In favor of Commercial Vhion," as the rase mat be, giving their names and address, and mailing the same to Mr. Frederic Nicholls, Secretary of, the Canadian Manufacturers' Association, Torento.

The mattur is an inuportant one, and demands prompt attention.

## DARE TO DO RIGHT

Tus Toronto filobe seems to fairly delight in being again and again convicted of palpable dishomery. It loves to wallow, and it accordingly does wallow, in the mire of untruthful expression and deceitful suppression. The other day the Gover nor General made a speech in response to a toast at a dinuer tendered him by the Natimal Clubin this city, and the cilche, whilst professing to give a verbatim report, deliburately ex. punged a portion that did not exactly chime in with the views of the managers of that papee. As the other city dailies published a report of the sperch in its entirety, the clumsy exhibition of partizanship wis at once detected.

Again, on Siturday, May ?xth, in order to promote its pet project of "Comniercial Cnion," it stooped to a mendacious misrepresentation of the Manufacturers' Association. We give the facts. Knowing that our readers are as much interested as any other class in the question of "Commercial! Cuion," we have spared neitaner time nor trouble in our sparch for information, ind we have devoted a great deal of ipace to. the publication of letters from representative manufacturers on this question and to editorial deductions.

After the decisive vote against this thinly veiled scheme for annexation, which was recorded at a recent meeting of the Toronto Buard of 'Irule', it was still claimed by some that the mercantile classes were disposed to favor the project, and in' order to test the correctness of this assumption we issued a circular requesting an expression of opinion from the members of the Boad. This information, in the large majority of in-
stances, has been freely and frankly communicated to us, and it is almust umecessnry to state thint the general concensus of opimiou is decidedly aguinst "propsition so manifestly detri mental to the interrests of our young but progressive Dominion

Gur onterprise in seekines reliable data on which to base our argunents instead of being content with mere imagimary con cluvons, has hurt the tend $\cdot$ susceptibilities of the Globe, which. in thr. hinee of bolstering up : weak callse, ignores the fact that the cincular wias printed under the healing of this paper mad signed by the editor, and with malice aiorethought devot… half a colum to an cditorial sereech against the Manufacturen. Assoctation, and in uddition makes tho following serioncharge of venality on the part of the commercial commonit, It says. -
" 11 hat Mr. Nicholls is striving for is a written recond on manes und opinions to be preserved for reference in time th com". Then if the manufacturers should want to exerno I pressure on thone members of the Board who can be inthem...l ill that "ay, the information on which to proceed will be rea.: at hami."

## No donbt the members of the Toronto Board of Trade will

 fully apprecinte the gratituous insult conveyed in the followin: sentence: "Then if the manufaturers should want to exerein. pressure on those members of the Bomd who cam be influeno... in that way." Surely it must be a warped and perticious mond that assumes that members of two of our largest and mone re prenentative industrinl nad commercial organigations are it the. maket, the one to buy and the other to sell their com iotio in Surely the writer must breathe a sitiated moral atmosphere or otherwise he would haw hesitated to publish such a sthema 'upon the fair fame of our merelants and manufacturers. Wie veature the opition that the (ilubr, in the discussion of this question, will tind that "homesty is the best policy," and thar while arguments on eitho side are accoptable rowdas, misrepresentation and ahuse are not factorsin mondins pul, sentiment. In the meantime we shail continue to ofy" every legitimate means the disintegation of our youns and progressive Dommion, despite the attacks which ar lam.z directed against us from several sources, for we revogne. "at the growing prosprerity of Canada has aroused tiac -in's ai those who wish to secure our trade without having antrin.,imi a cent towards its development. Shall we say them! ! I. nay?
## "A BIRD TN THE HAND," E'TC.

Ms. Wis wand his lesser satellites have i.si lged in at:ral many glittoring smealities as to the great lown that "uld result to Canadiams were the tarift barvers between thi- rantry and the United States removed, but we have failoul. ifter diligent perusel of , il their speeches and letters, to thai any sjecatic decharation of any plan whereby their seleme cobld in carried into offert with advantage to Canada, or in what direw tion we should braetit, as a people, by the adoptien wit andyy of unvestricted recoprccity.

They glibly ring the changes on the advantages that wout acerue to the farmins community from anopen market wisisy m! 1 , ins, but thay do not say that the home market is the luntket that absorbs an enormous proportion of all our ngriciltural puluets, and that for the small percentage of surplus the mar-
ket of sixty millions is a myth. They do not speak of the. inmense surplus of farm products alromed produced in the United States, neilher do they tell their famer friends that inf 1880 tho United States exported grain, hroulstuts and pro-
 they have entively failed to prove that commercial union would benelit this comntry, they have given amplo avidoner thant it would be of great benelit to the linited states, und to, prove this it is only necensany to quate a fen extruts from H . Wiman's speeches and letters, as ruported in the press.

Our readers can dratw their own conclusions from the follow ing paragraphs, and then juder of the disinterestedness of Mr. Wimnn's motives.

*     * " "It can be forcibly replied that the vast mass oi thinking men in the Inited States feel that an abolition of all (r.do restrictions on this continent is most desirable."
*     * "The possibilities of the extension of the lade of the United States into the unknown regions of the North; the Nountages that would result irom the free introduction of the sreat agricultural, mineral and other resour sof the Doninion, together with the phospect of seteling, one for all, the various internationa difliculties that continually arise $[i$. .. , surrender ai our tisheries. Jon. C. M.]; these considerations help iorward $\mathfrak{n}$ favorable conclusion."
*     *         * . The attractions to the linited States of this lave and comprehensive policy made it possible. The settle ment of the paltry tishing question would harilly be ata impel. ling power that woula make possible the passage of such a measure. It would be the pursuit of an idea that the com mere of the country should cover the continent as the waters cover the face of the deep."
*     *         * "I Sut motives beyond these, in the extension of mosiness, in the building up of a great trade to and from Ciamiah in making her vast natural resources contributory to the progress and gowth of the rinited States, would be far more moving."
*     *         * "dine position of the people of the Vinited States is one of geat strength. They fully realize thrir enomons adrantanges, now apparent to a greater degree than wer before. That they could be persuaded into any half masume is utterly nut of reason to expect. Their mamiacturen are fully develuped; their natural resources ample; their (rowamactatal surplus vast, and their whole condition keyed up on ach a level that to expect thom to yield in the matter of limited reciprocity is to expect an utter impossibility."
*     *         * "It swepps out of sight all custom houses, and will open up a market of live millions of people to the United States without undertaking any financial obligations, and with. out adding a dollar to tanation."
*     *         * "The revorse side of the picture is, that by delay or a want of aypreciation of the peculiar conditions which at this moment prevail, Camada may be cut ofll from a comection with that country, and indeed it mingt result in being phunged into war with the most determined and the most vigornus nation un the continant."
The above extracts sinonld be sutticient to convince any unprejudiced nind is a our neighbors are trying to befool us into a gane of "head, I win; tails, you lose," and that apart from sentiment, the commercial nspect of the trausaction is altogether toos shady. Are we willing without, as Mr. Wiman says, the other partics w une tramsaction undertaking any financial obligntions, to allow our vast natural resources to be made contributory to the progress and growth of the United States? We thank not, and we tell Mr. Wiman that we are not so pusillanimous a people as to be frightened by his threat that the reverse side of the picture is that by delay we may be "plunged into war with the most dotermined and the most rigorous nation on the continent."


## AD,EGLII CUSTOMS DACHIMINATION.

Recramis the A mericen Stationer, puhlished in New Yow,
 written fom Cormito by some person in the stationory husimess in this city, which, after charging the (amadian (iovernment with lwing the cause of an alleged deereasmeg trade in his line of m.rchandise from the United Sitates to Canada, sporaiing of the situntion silys:-
" I marked and most unpleasnnt feature in all of these changes in our tiscal policy has been the distinctly unfriendly attitude adopted by our government towards the United States. Our customs poople here evidently have instructions from Ottava to assume that all American exporters ate dishomest, and as a consequence the Canalian importer is suljected to untold insult and :mnoynace when passing an Americun invoice. I 4 ut it it se an Enemlish or oven continental invoice that falls under ollicial srrutiny, the wheels of routina appear to be specially oiled inv the ocension. The contrust is significant. While we ferl this to be most unjust, wo camot prevent it f min li, uraging any wish we may have to do business with your peol $\because "$
The writer, as an evidence of the truth of lis statement, salys that " no invoice of lead pencils coming from the United Srates is accepted for duty at its face value, although stamped - certified correct' by the firm exporting the goods," and that He amount of the invoice is raised to an arhitrary and fictiti"us balue, tived at will by the customs ollicials, and the duty assessed on what has practically been eonverted into a false invoice. He also says that precisely the same thing is true of all the leading Americ:m makes of steel pensand writing inks ; and that the invoiees of such goods arte useless ior customes purposes when coming from the United States. "Our eustoms otticials," he salys, "deliberately falsify them"

This s-urrilous and untruthful tirade against Canadian otiocials of boh high and low degree is commented upon by the stetion, in chameteristic Yanker bluster, in which it professes to "sympahise with (anadians in their efforts to estab). lish their own industries, and recognizes the propriety of at tarifi which shall protect the growth and development of thos: industries," but protests on the facts presented, against giving advantages to the manufactures of other comatries to the $\because=$ clusion of those of the United States; assumes that the whole course of the present administration of public athiars in Canada towards the linited States is and has been inspired by dislike which it is thought can be satily vented under the protection of the British (iovernment: intimates that such doings will cause the United Nates Government to resort to "nonintercourse" with this comntry, and intimates amexation, its language being "our system of territorial govermment is well defined, and it is a very simple matter to apply it to the other side of our northern boundary line."

A nother New York paper, the J'aprer Trode Journal, also elaborates the subject, though not in such an acrid manner, care being taken to quality its remarks with an "if." It says, "this is as stave charge, but it comes from at responsible house, and if true." etc.
The Toronto correspondent who signs himself "Importers" does not make his name known for reasons easily surmisen. He lights behind a .unsk, and he is probally some Xankee frec trade sympathizer who cares more for the "almighty dollar"

Ham for Camadi, or- -the truth. Thrse complaints that Amer ican exporters to Camuln are not treated in lin satme momer
 papers alluded to suier is that regarding pencil.. Cine truth is, the manutacturers of the United States wore sa.ling pencils to Canadian dirms at much lower prices than to American dealers -...so much so that in one case of whith we hate knowledre the C'anidian purchaser disposed of his whole purchase of Yanke. pencils in the Uhited states at a goorl prolit, never havine brought the pempils to Canada at all This being discoverod by the parties from whom he purchased chey now refuse to sell to ('analian housts at shaghter mates except on ghamantee that. the goms are actually to be brought to Camada. 'This is the whole case in a nut-shell.

Toronto "importers" know whether they have aver been in the habit of buying Yanke pencils at slaughter prieco, gumantecing that the gonds were not to bo sold in the Vnitell States, having them innoided far bohen their gemmal maket value, and endeavoring to have then atecepted at such wainathon by (amadian customs olticers. such trausactions are con stanty ormoning, and this papable inat on the (inverument anderval uation- - has become so bold-faced and llagrant that the authonthes find it necessury to suppress it. The sappresion however, callars much grief to those herotofone enguged in it.

## RECIPROCITY.

Those who atre clamoriag for commereial union of Canada with the United Nitates are makinus special appeats to the angi ealtural classe; of Camada in that behalf. and emdeavoring to show that those dasses would be riatly w directly brometed by surh commercial union. It is the that there is at taif duty upon abrieultur al prolucts of the Linited State, brought inte Canadia, as there of apon similar (Gia, odian products carried mon the Enated states. The clain is made that if no such tarilf existed Canadian famers would receive higher prows for their products, the differene- being measured by the duties now levied. It is also clamed that the oniy way Canadian farmers can olitatin the benefit of these iogher pries $s$ is by commertial union with the United States, and the nemoral of all tarill restrictions on both sides. The drift of the arguments which are being made by these agitationists is that whatever there is to be done to bring about the conditions desired in behalf of Canadian famers, by which the y are to wase and enjoy full and free access to the markets of the United sitates, must le done in Canada-that we must take the initiative, and make the first nove.

But those who are depicting the woes of Canadian farmers and weeping crocodile tears in their behalf, we dishonest in their declamations and professions in that the; fail to tell that Canadian laws already and for long time made stand upon our statute books, and that the Canadian Govermment stands ready and willing to mforce them on the day and hour when the United states Goverument sees proper to remove the restrictions they impose on the importation of Cinadian proluctsints their conatry. Ganadia cannot rompel the United States to alter or amend their tariff laws, but the Canadian Consolidanel! Customs Act of Lasf prowides (49) Vietoria, chapter .3.3, see tion 9) that any or all of certanl enumerated artioles of farm products, fisli, lumber, ete, may lee imported intos (iunalia free
of duty whenevor similar articles from Canada may be inported into the (Inited States fro: of duty. Pray, what more can Camadia farmers desiro of their Government? Tha Aet alluded .a s. in inllows: -
"Any "r a'l of the following things, that is to say :-mmimals of all kinds, meen fruit, hay, straw; brin, seeds of all kimels, wrombles (including potatoes nad other roots), plants, trees atad shrubs, coal and coke, salt, hopes, wheat, peas and beans, buley, we, oat., Indian corn, buekwheat and all other grain, hour of wheat and thour of rye. halian meal and matmeal, and thour or mbal of my other grain, butter, cheese, fish (salted or - meke(l), lard, tallow, meats (fresh, sulted or smoked), and lan her may he inported into Canadn free of duty, or at a less mate: of duty than is provided by this Act, upon proclamation of the( con enor-in-Council, which may be issued whenever it apprar, to his satisfintion that similar atticles from Canala may ho. imported intu the United States free of duty, or at se mate "f dut: not exceeding that payable on the sume under such you, "lamation when imported into Canadis" ( 42 V., c. 15 , s. (i)

This lat is alive and operative to day, and if the advocat. of commorvial mion really desire to bring about a free inter change of asmentural prodacts between Camada and the Unita.. stater, hoping or expecting therely to bencitit Canatha. farmers, let them crase cheir lators in Camada, where all that can le dune has been dready done, and transfer the seene of fheir orenations to Washington, and exert here cioquence any 1pruasion on the Yanke Congress.

There n 1 h he no Camadian duty imposed on importations af lumber foum the United states as soon as the Canadian fion ernment is s.aishiod that the (iovermment of the Vruited Situs imposen mo duty on lumber exported from Cianada. Vide ('m solidated Cu-bms Aet of lssio. (49 Victoria, chaptor 3:, see tion 9.)

There will be no Camadian duty imposed on mportations of farm prolucts from the C'med States as soon as the Canadian (Gor-rnment is satistued that the Goverment of the Vatal
 (Gamala. Vide Consoldated Customs let of les6. (1:3 Vic toria, elapte1 3:, section 9 .)

There will be no Canadian duty mposed on impotatuan of coal and colie from the United State, as soon as the: Cand un (iovernment is satisthed that the Government of the I mend States imposes no duty on coal and coke exported from Cianah. Vide Consolidated Customs Act of 1886 . ( 49 Victori:i, chalp. ter 33, section 9.)

Where will be no Camadian duty imposed on importatime. of salt and fish from the United States as soon os the Cannuliaia Govermment is satisfied lant the ciovermment of the Cinnal States imposes no duty on salt and tish exported from C:athuVide Consolidated Customs Act of 1 Sisig. ( 19 Victorin, chapter 33, section 9.)

## THE DOMINION EXIIBITION.

Manuramubas senemally have cause to be chated it lar news that the amual Dominion exhibition geant of Sla, (am has been thas ean extended to Toronto. At the lent wad. meeting of the Canalian Manufacturers' Assochatwh, it widu tion was unnmously passed that the Govermment shauld the arged to give the grant to Toronto this year, and ver Hon the presulent and secretary of the Association have intern wed the suthorities at Ottiowa, in order to press the chailns of this
 been secured, it now rests with the manafacturers to make such $/$ of Lite: Producers and (onsumery; Hone lrotection Athers
 striking manner, and demonstante to the seepticnl that, since the inauguration of the Natiomal Policy in 189 I such progress has been mado as to bring Canadian goods up to at standard that will favorably compare with thoso of any other country, and that the time for prejudicial preference for imported goods has now past. Of course there are many who profer a Dominion medal to any other, and in some cancs in the past manufueturers havo o erlooked the advantage of the immense number of visitors which inspect their productions during the progress of the Industrial Exhibition, and have exhibited at smaller eentres. This year every suceesstul exhil, itor will be the recipient of Dominion honors in addition to the advertising opportunities that will accrue from the presence of : visitors whose numbers are likely to reach a quarter of a million. This may bo taken as an extravagant estimate, but we think we are not far from the mark when it is con. sidered that the aserage attend anco at the ordinary Industrial Exhibition is $1 \mathbf{5 0}, 000$, and that this number will doubtless bo very largely augmented on accome of the extratatractions that will be offered and also on account of the fact that the present is the jubilee year, and as the citizens havo voted against any civic commemomative display the erowds that would have visited the city for that oceasion will defer their holiday trip until the holdingof Canada's (ireat Fais. Wo shall pullish such further in formation from time to time, in reference to aceommolation and attractions as shall be given by the Eximibition Association.

## ATTENTION, GANADIAN MANUFACTURERS.

If eternal rigitance is the price of liberty, an uncmang and persistent strugis in the dissemination of knowledge and the distribution of aprompiate facts are among the essentials in maintaining a protective policy, ceen in the United states.
The American Irom and steel Association is composed entirely of those directly engraged in the mannfacture of iron and sted in the l'nited States. The protective tariff of that country his miadr the ibou and steel industry there what it is, but the inlustry would soon lose jts prestige if that tariff was removed or very considerably medified. It wres without the saying that there are those in the United States, aided and assisted by the coblen cilub in Great Britain and others, who are ce $:$ stantly striving to have the tariff removed, and the Industrial Learge of Philadelphia is an aswociation which has for its ob, ject the dissemination of ach literature as is lest calculated! to keep the masses of the people fully iniormed on all matters relating to protection, and this is the organizatiom. and the only one of the sort, with which the Americar. hou and Sted Association is identitied. All publications of thr lodustria! 「amgue we sent free of cost to those who receive the the thereme of which is bome by the Jron and Sted Asomeation, and the mombers thereof These publications are in the form ni tracts abricards of convenient size, the suljects $d i$ usse $d$ in them covering all topics of current interest. Amons the tithes of these tracts are embraced Ilistory and oljocts of the Inlustrial League ; Proofs of British Intluence in American 'Iarill Lergishation ; Footprints of the British Limn F Fow Raw Material and a Foreign Market; The Power of Congress to

Trade Paradise, ete. Tho larift (ar lo consint oi sets of apht catrds, on dilli-rent topies. hort, sharp, crip cond deci-ive.

Buring the gear 1 ses the whole umber of tarill trats
 5(0), all of which wero distributed where it was thought they would do the most goon, chiefly through torill organizations in the different Nitates co-operatinas "ith the In ague. Distribution was also mude through meminure if Congress, to editors of newspapers and to iron, wool :ud .. hher manufacturers ior dis. tribution mong employes. Fine thonsamd sets of tarift cards, cight difierent cards in each vet. in all $+0,000$ cards, wero distributed during the year.

Since the begiming of the proment wat $95,00 \mathrm{cop}$ coses of cight ditterent tracts have been pronteri. and arr being distributed. Tho topies discussed in these trecto anhe we, is there Recipro. city in 'rmule? American Fanme and the T with hoimse of the Protective Poli.y, Free Rav Matrialsanda Foretg Mar ket ; Prolucers and Consumers, we. Thene tracts contain from four to sixteen pages each, and wror written by such illustrious statesmen as the Honorable Justin s. Morrill, the Bather of the Morrall Carifl of 1s6l, the Mnomable Williom D. Kelley, the Honomathe Thomas H. Dulloy and other:

It will be seen from thes that the ladustrial 1 a gue of Philitdelphia is a working orgenizatmon, and, as we are assmed by the Bulletin of the American Iron and Steel lisoceciation, the record oi last year's work in the di tribution of tatill literature will be duplicated in the present year.

It should be torne in mind that all of the experdeture here :alluded to was and is being made loy hut me mganization created for this particular objoct, athourh there are a number of similar urganizations in the biated states, performing lake: 'service, not to mention the thou vads of mewnpapers and smular publications engraged in tawhing and parahing polective doctrines.
If, then, such is the price, or rether at pert of the prive of protection in the United States, whore nil manumeturing industices are on a much surer fortitig than simatar ones are in Canada; and in view of the ronnty inatsuateri cusade bent led by the free tradors both a home nud abrem, how much more important is it that Cinadian manufacturers shonid be uj, and actively at work disseminating similar tariff literature thronghout Canada, and doing whatever can be donc m molding and sustainiuas pablic opinion un this most vital iostue.

## "COMMIRRCIS CNION" AND " MECIPIROUITS.

We: :ontinue the pullication of lefters rereived from (ama dian manuacturers anent the question of Commercial Union. They arr interesting reading, showing as they do the sentimelts of the writers on the subiet. The entire Dominion has become thoroughly aroused, and the feeling against the scheme to make Camadi a tail to the lanke kite is beconing more and more pronounced evary diy. As is shown elsewhere, Can ada has already enacted a liw providing for reciprocity in such natural products as are grown and 1 . ade on furms, and of the mines, the fisheries and the forests, and such reciprocity may be had wheneser the U'nited States shall see proper to remove their tariff on similar products. Wir de not see what more the producers oi such things require of Canada, and Canadian manufacturers are asking for nothing but justion in insisting that the taviff as aflecting them shall he left as at now is. We continue our symposium:-

From Mr. Henry J. Bird, manufacturer of tweeds, flanneta, yarns, blankets, etc., Bracebridye, Ont.
"As the subject of our tariffs and international commercial arrangements has long engaged my attention, more than any other branch of political economy, I have personal convictions on the subject which would override any party platform with which I might be connected.
"Canada has been, in the past, the best customer of the United States ; but the energies developed by our National Policy have shown them that we can do without them, and the recent strong endorsement of the Government policy, and its prospective extension, alarins our southern trade opponents, and induces them to 'set a sprat to catch a mackerel.'
"Should Canada be so blind as to swallow the bait, it would not be our manufactures alone that would be killed; for I feel sure that the sequel would be most disastrous to the entire Dominion; since all our infant, though thriving industries would be bereft of even the amount of protection incidental to a revenue tariff, and the well-established and powerful organizations of the States could so swamp out all British or foreign competition that we would be left almost without revenue except such as derived from direct taxation.
"The poverty and depression thus brought about would probably give rise to a desire for annexation; and in our then heavily burdenel and destitute condition, and British sympathy estranged from us, I fear the conditions of union we could then obtain would be most humiliating.
"We cannot expect that Great Britain would allow us to enter into a high protective union with one of her principal trade competitors and still continue to us the protection of the British flag.
" If we grant a differential tariff to any, it must be to support the navy that guards our foreign commerce and intercourse ; and may the sun never rise that sees the Union Jack supplanted in Canada by the Stars and Stripes."

From Mr. Wm. Baird, for self and Mrssrs. John Baird \& Co., manufacturers of woolen goods, Almonte, Ont.
"The Canadian Manufacturir will please accept our sincere thanks for the earnest attention and fidelity always shown to the interests of Canadian manufacturers.
"I often wish I could get time to write an article for publication, by way of criticising the misrepresentations, fallacious arguinents and groundless assumptions which abound in Mr. Wiman's open letter, and in the speeches of Mr. Darling and Prof. Goldwin Smith; but I am overworked, and being now about seventy years of age, cannot conveniently do so. I cannot write as quickly as I used to do, and I have frequent interruptions, which dispel ideas before they can be committed to paper ; but should I think it more necessary will endeavor to gat something done, and have advised others to do the same."

From Mr. J. A. Bain, of the Bain Wagon Co., manufacturers of farm, spring and freight wagons, Woodstock, Ont.
"We a"e decidedly opposed to 'commercial union' with the United States, because the wagon manufacturers of Canada are not able to compete with the makers of the United States. This is not a guess, as the writer before starting this business here worked for a number of years in some of the leading factories of the United States, and knows this to be a fact. It would be like amateurs trying to beat professionals. It is all very well for the Americans who have built themselves up by protection to want us to adopt free trade. Give us protection as long as they have had it, and then we will meet them on any terms."

From Messrs. Rjbertson Bros., wholesale manufacturing confectioners, Toronto:
" After having built up our business to suit the conditions and varied demands of our own community, and with our in-
dustrial centres located and grown up, only with the development and requirements of our own territory, we are askod to invite the great man ifacturing and commercial centres of sixty millions of people whose conditions cannot be disturbed, but only enlarged, to swarm into Cinnada along the whole line of our three thousand miles of frontier, a frontier which, after a great effort, we have just succeeded in paralleling with a railroad, connecting all parts of our country for our general good. We are no cowards, but we cannot afford to be placed at such great disadvantages as are proposed."

From Messes. Agustus Newrla \& Co., manufacturers of organ reeds and keys, Chicago, Ill., with branch house in Toronto :
"The principles which underlie a just tariff and the benefits to be derived from the same, seem to puzzle the stetesmen of the United States quite as much, as when our colossal manufacturing interest sought in its infancy that protection which would enable it to cope with old concerns in Europe which had abundance of capital and skilled labor, of which we had neither. People in this country are still pretty evenly divided on the tariff question after having tried both high and low systems. We fear that America is on the eve of tariff reduction, for a reason which is in no wise connected with class legislation or commercial adjustment, international or interstate, but because there seems to be no constitutional warrant or common justice in collecting money from the people for a treasury which has no use for it. But this plausible excuse for free trade falls to the ground when the interests of all parties are considered. For instance, untaxed international commerce would place the goods of the world before the buyers at bottom prices, but what would happen to the native producers of those goods ? They would have to meet the prices made by foreign countries where labor is cheap. This would, in turn, strike at the vital interests of the laborers, who form a large proportion of our population. It can in like manner be shown that sill other industries and interests would be disastrously affected. There fore, while free trade may appear correct as a general theory; like liberty, and other abstract principles, it is the creature 0 circumstances, and we think in this country that it is vastly better to collect customs according to a basis somewhere bo tween the extremes of a prohibitory tariff and a free trade, even if we have to expend the money on national defences of public improvements.
"Had Canada commenced her manufacturing career at the same time that the United States did, and was in the enjoyment of systems which had been improved by experience and the necessities of the times, then might her manufacturers bo able to sustain themselves und join in a demand for a "com plete commercial union" with the United States. But many of the important enterprises existing in the Dominion werd started about the time the "National Policy" was adopted, and as a consequence of it, and these, together with those which already had a foothold there, under the fostering care of that in policy, have had a season of prosperity without a parallel in your history. The field for manufacturing, however, is limito to only about $5,000,000$ of people, and is too small to warran the investment of sufficient capital in plants, with facilition equal to the older and larger similar establishments in the United States, so that when "complete commercial union" or free trade should be established, instead of having the broble field of the United States and Canada for a more profitable trade, Canadians would learn to their cost that Americmin would be in a position to pocket most of the profits arising from the addition of Canadian markets to their own. The conteod which would follow such a consummation, would be brief and the strongest only would survive. We make no effort to presid a statesmanlike view of this matter, but to oppose a scher which, if successful, would ruin the enterprise in which we invested our capital in Toronto, and hundreds of manufacturein the Dominion are similarly situated."

## F. E. DIXON \& Co.

M.MNUFACTIREKS OF

## Patent Inromoint. Star Rivet



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## $\mathfrak{G}$ ditorial 9 lotes.

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CEAA A asociation of manufacturers who may desire to hold meetings for organization or other purposes, are invited to avail thenselves of the met ting room adjoining the office of the Canadiax Mancfactiagr.

Every business man who receives the Canadian ManifacTURER should carefully observe the tusiness cards displayed therein, and, in corresponding with advertisers, mention this journal. This will be of benefit to both the buyer and the seller, and the medium by which they are brought together will also be made more valuable.

In the scheduie of tariff changes published in our issue of May 20th, item No. 115 should have read:-" Iron or steel rivets, bolts with or without threads, nuts or bolt blanks less than three-eighths of an inch in diameter, one and a half cents per pound, and thirty per cent. ad valorem."

In a recent action brought against a baking powder manufacturing firm in Montreal, in which they were charged with having sold as an article of food baking powder containing alum, the same being injurious to health, it was decided by Judge Dugas that baking powder is not food, and therefore cannot be adulterated within the meaning of the Adulteration Act. The case was dismissed.

The Boards of Trade of nearly all the large commercial seaboard cities of the United States are passing resolutions favoring commercial union between Canada and that country. These boards of trade are composed mainly of importers and jobbers of imported merchandise. A close observation of the American papers fails to discover that American manufacturers as a class favor any such move, nor is there any evidence going to show that commercial union is any more popular with the masses in the United States than in Canada.

The United States seems to hold the supremacy of the world in the production of steel. According to a tabulated statement recently made by Mr. James M. Swank, manager of the American Iron and Steel $\Lambda$ ssociation, the production of steel of all sorts in Great Britain in 1886 amounted to $2,364,670$ tons, and in the United States to $2,562,502$ tons. While in crucible steel Great Britain surpassed the United States by 475,177 tons, and in tool steel by less than 30,000 tons, in Bessemer steel the United States surpassed Great Britain by 698,670 tons, or 44.5 per cent., and in the aggregate of all kinds of steel, 197,832 tons. So much for protection.

ACanadian manufacturer whose views regarding Reciprocity have already been published in our symposium, supplements them by saying :-"I don't like the movement for Commercial Union, and I don't like a number of other movements I have recently noticed, all of which seem to point towards the annexation of Canada to the United States. Messrs. Butterworth,

Wiman and Goldwin Smith seem bent, consciously or unconsciously, on the accomplishment of that result. It is well that the Canadian Manufacturer so persistently sounds notes of warning against the danger. We gain nothing by telling the world that we are ready to give ourselves away for the sake of obtaining a little more trade, or a chance to gain trade from those who are just as strong, just us capable, and just as eager to secure it as we are."

At a recent meeting of manufacturers and merchants of St. John, N.B., a resolution was passed to memorialize the Dominion Parliament and the Government of Canada, asking that a line of steamships to sail regularly between St. John and the principal ports of the British and Spanish West India Islands be subsidized. The statement was made that on the completion of the Short Line railway the port of St. John would be 277 miles nearer Montreal and the great west than any other maritime city in the Dominion, and consequently possess greater advantages as an outlet for merchandize from the western province; and that St. John is the centre of the manufacturing interests of the surrounding counties and the nearest distributing point for the agricultural products of the province and also for the counties of Nova Scotia bordering the Bay of Fundy.

The report of the Ontario Department of Immigration shows that during the year 1886 the immigrants settling in the province numbered 15,288 , an increase of 1,315 over the number of settlers in 1885 . Mr. Hardy says:-"In view of the general fall in the price of farm products, a like decline might have been expected in the rate of wages paid to farm laborers. This, however, was not the case, owing, principally, to the demand for general labor. Wages during the past twelve months were kept up to the standard of the previous year. Experienced farm laborers, newly arrived, commanded from $\$ 150$ to $\$ 175$ per annum, and persons having previous experience of Canadian farming, from $\$ 170$ to $\$ 200$, with board and lodging in both cases. The demand commenced early in April and continued till the end of October, all the farm laborers arriving during that period being engaged almost immediately on their arrival, and settled at little expense to the Government."

The enormous increase in the foreign trade of the Argentine Republic during the last few yearsis phenomenal. SenorQuesada, the Argentine Minister at Washington, has received from his Government thestatistics of the commerce of that country in 1886, the figures of which are surprising, and show that the country is growing more rapidly than any other of the South American nations. In 1886 the inports of merchandise were $\$ 115,485,388$, the greater part of which were manufactures. The enormous increase in foreign trade during the last. few years is phenomenal. In 1876 -ten years ago-the imports were only $\$ 32$,070,022 , having more than trebled in ten years; in 1880 they were $\$ 45,535,880$, showing that they had more than doubled in five years; in 1885 they were $\$ 95,862,633$, showing an increase of over $\$ 20,000,000$ in one year. About one-third of these imports were from England, and an average of nearly one steamer per day arrived at the port of Buenos Ayres, not one of which, during 1886 , was from the United States.

Spain has entered the field as the holder of an international exhibition, to be located at Barcelona, at which foreign gorernments are invited to be officially represented. The exhibition is established under the auspices of the Government and * council of patrons, composed of members of the civil, military and ecclesiastical authorities, industrial and commercial centres and financial and scientific societies in the city of Barcelons. The usual accommodation is offered exhibitors. An internar tional jury will be appointed for the purpose of adjudging the awards, which will consist of diplomas of honor, gold medals, silver medals, bronze medals, and honorable mention, without prejudice to the awards of a national character which the executive council may suggest specially to the Government of Her Majesty. Fivery diploma will be accompanied by a bronze medal in the shape of a cross or other decoration, attached by a band having the national colors of Spain, and enclosed in * suitable case. The exhibition will be opened on the 15 th Sep tember next, and will remain open about six months.
For several months past the Hubbard Tinning Company, of Hubbard, Ohio, has been constructing suitable works for the manufacture of tinplates, and these works are now ready for active operations. The tinning machinery has been imported from a celebrated Welsh maker, and the skilled labor to be employed also comes from Wales. This is not the first work of the kind ever started in the United States, tinplates having been made between 1873 and 1878 at Wellsville, Ohio, and st Leechburg and Demler, Pennsylvania, at which places the black plates were both manufactured and tinned. The Hubbard works will only tin the black plates, which are to be imported. The American duty on these plates is forty-five per cent. adie valorem, the valuation being four cents a pound or less, while the duty on tinned plates is only one cent a pound. The coll cern here alluded to have only about $\$ 10,000$ invested in the venture, and there is considerable doubt felt as to its succem, as it is not believed that the minufacture of tinned plates in the United States can be successfully carried on with a $\mathrm{pr}^{\circ}$ tective duty of less that two and a half cents a pound.

The Collector of Customs at Philadelphia has submitted the decision of the Treasury Department a question as to shall be considered the country of exportation in the case of tain Persian wool which arrived at Philadelphia from Ion consigned to Philadelphia merchants. The appraiser estima the dutiable value of the wool at its market value in London the date of exportation to the United States. The importers ${ }^{10}$ tested against this action. They represented that the merch ${ }^{\text {a }}$ " dise was purchased at Bagdad for shipment at Bassorah port in the United States as directly as means of transpo tion would allow, London being only a port of trans-shipm occasioned by the fact that there is no direct communica between Bassorah and Philadelphia. They held, thereforf that the market value of the wool at Bassorah at the dat exportation is the value to be estimated for the purpose of $6 \times 10 /$ the classification of the wool. In a letter to the Collector Philadelphia on the subject, Secretary Fairchild says that $\mathrm{an}^{\mathrm{n}}$ the provisions of the wool schedulethe duty on wools is depen upon " the value at the last port or place whence imported ${ }^{\text {t/ }}$ United States." The functions of the appraisers are, there he says, restricted to the finding of the last port of ship
"IT is not in the nature of any protected industry to be satisfied. The fellow who has 100 per cent. in his favor is as fully convinced of his need of 110 per cent. as he was convinced of his need of 25 when he had 15 . The general dependence upon Government favor in place of individual merit results in a marked deterioration in the quality of goods. A pair of overshoes, a chair, an undershirt, or a stove wears out a great deal sooner than it would if the fear of foreign competition compelled the keeping up of the quality of the domestic goods."Hamilton Times.
If our contemporary intends to convey the idea that a protective tariff, such as now enables Canadian manufacturers to furnish Canadian-made merchandise to Canadian consumers as against foreign competitors constitutes a "general dependence upon government favor" for existence, and that such tariff protection " results in a marked deterioration in the quality of goods" produced by them, it is badly mistaken. The facts disprove the assertion. Neither overshoes, chairs, undershirts nor stoves, being protected, wear out sooner because of such protection; and to charge Canadian manufacturers with the production of inferior goods because they are protected, or for any other cause, is an insinuation against the honor and integrity of one of the most important classes in the community. The Times had better revise its unwise statement.

The Northwestern Lumberman thinks that the policy of the Dominion Government respecting the export of logs to the United States is of doubtful wisdom, and that it looks as if an unfair advantage had been taken of American stumpage owners in selling them extensive limits, and afterwards putting on an export duty Which deprives them of realizing on their investment. The Dominion Government are the best judges of the "wisdom" of their acts and of the best methods of conserving Canadian interests, although they may be, and probably are, truly thankful to American stumpage owners in Canada and our respected contemporary for suggestions. But American stumpage owners are in the same boat with Canadians in this respect, so there is no discrimination in that direction. If "Michigan men who might otherwise build mills in Canada" are prevented from so doing by fear of any retaliatory measure the United States Government may see proper to inaugurate against Canada growing out of the fishery question, probably we will be able to survive. But they need not wait, for such a condition is not likely to arise. Canadian logs must be cut into lumber in Canadian mills. If our American friends want to erect their sawmills on Canadian soil all true Canadians will gladly and warmly welcome them.

Absolute free trade between the United States and Canada -Why not? It would benefit and enrich the people of both countries, undoubtedly; but, alas! it would disappoint and embitter two great "statesmen," so-called-Sir John Macdonald and Mr. Blaine ; two great advocates of barriers, fences, obstacles and exclusions.-New York Herald. If "absolute free trade between the United States and Canada" would "benefit and enrich the people of both countries," it would be interesting to know where that wealth is going to at the present time, and where the wealth would cone to in case "absolute free trade" was agreed on. We fear the Herald has made one of those rash statements peculiar to those seeking free trade.
-Wade's Fibre and Fabric. Perhaps Mr. Erastus Wiman can give the information. Ask him. Canada holds a position to the United States as regards its manufacturing industries very similar to what the United States has heretofore and yet holds towards Great Britain. The United States has never believed that free trade with Great Britain would benefit and enrich the people of both countries, and it is evident that the protective tariff prevailing there has built up its manufacturing industries until they are now in a most flourishing and prosperous condition But free trade between these countries is a thing not likely to occur. Canada can achieve similar greatness by persisting in her National Policy of Protection, and can no more afford to forego it in favor of the United States than the United States can consent to free trade with Great Britain.

British manufacturers are welcoming with considerable sat_ isfaction the bill recently introduced in Parliament dealing with fraudulent trademarks. Some remarkable statements were made to Lord Stanley by a deputation of Sheffield manufacturers, in which it was declared that twenty tons of German cutlery were imported into Sheffield in one day to be soid as Sheffield goods. One gentleman stated that it could be proved that some two hundred ironmongers in the United Kingdom were in the habit of selling German goods as of Sheffield manufacture. A pair of pincers was produced on which was a label warranting them to be of cast steel and of Sheffield make, but which were manufactured entirely of malleable iron and in Germany. Boxes and cards of pocket knives were produced having the names and trademarks of eminent Sheffield manufacturers stamped on them, but which were all made in Solingen, Germany. The business of making spurious and worthless goods in imitation of those produced by British manufacturers of established reputation interferes so seriously with their legitimate trade that they are seeking redress from Par. liament. Similar complaints are made in the United States. Manufacturers there who have established enviable reputations, and whose trademark on goods is prima facie evidence of their excellence, are confronted with a most ruinous competition from goods bearing their own trade mark, and quite similar in general appearance to the genuine, but which are of the general character described as interfering so seriously with the Sheffield cutlers. On these representations a bill was introduced into Congress prohibiting the importation of any goods into the United States upon which is placed the stamp or trade mark of any manufacturer doing business in that country, or in any way imitating or counterfeiting the same; or of any goods spurious in their character, and not strictly what they are represented to be. This condition of trade seems to demand the prompt intervention of the law and its rigorous enforcement in behalf of honest manufacturers.

Sir Charlas Tuppre states that the net debt of Canada on March 31 was $\$ 225,865,825$.
Thx timber regulations of Quebec establishing a uniform ground rent of $\$ 2$ a square mile for license for cutting square timber are modified to a fixed rent of $\$ 5$ a square mile.

Rates of freight from Europe to America by steamer are very much higher than they were two or three months ago, which will no doubt tend to curtail the importation of foreign manufactures into the States.

Tus ammal ropurt of Hon John Carling, Ninister of Agrienlturo, shows that durine the hast fiscal year there were 102,581 numigrants inte Camada, asiant 105, osif for the previous year. There wers 6!, lise actmal sotiters last years.
Oxe of tho . Im. biean consulate reports says that in one year the importation of wr. fon foncing in the tepuble of ('rughats anomen d to $32,000,1000$ pmands $I 1$ was hath barbed and smooth, and none of tha hater was-
Denusa the facal yoat ender 31st Math, the British Govermuent wecived from (ustemw, from stan!s, $\leq 11,630$ : from l:mal lax, $\mathfrak{E l}, 070.000$; fiom hunse duty, $\ell 1,010.000$; from property and income tixx, £ £ $3 \mathrm{z}, 00 \mathrm{k}, 0000$.
At a recent meeting of the banh ind hrom mannatures of

 labor unless such work was biaded. howing chat it was madte by such labos.
 trial of one of the two twin-screw tonpen- borts bat by Messrs.

 tained by any vessel allom
The Pennsglvatria Warelsusma and Safe Joposit Company of
 comaneree bill of the ("niwed states The lext is an exact copy of the act as piossel by Congress and 4 p!osed hy the Presidicnt, and Which went into effect Aphl $5,1: 35^{-}$.
Anves, from Wellington, New Zualand, shate that strong efforts are being made by Camadian pacita Rahnoul representatises to secure the carrying of Anstralian and Dow Oealan mails for Camada and England by steanners from thos. colonies to, British Columbia, and uver the Canadian Pacitic Ruad.

Mn. Jomi B. Arodes, publisher, New York, threagh his Toronto bmach h. Ms. has sent us the May namber of the hibran Mragaine, publishoci ' (inim. It contams 1's pages chose orginal and selectonl readiug narter on interestine :"pics. Thes magaine s jublished senai-iseckly or monthly, a whe didlara year.

Mr. lus Conswanh, 'ommissioner for the Province oi New Jirunswick th the Cotors 1 and halian Exhibition held in London, Eng., last vear, has seme us the Report on derriculture in New Bromswick for the vear 1 sitit, to whicio is appended Mr. Cornwall's rejort, as commissioner, of hus work and observationsat the Exhibition.

Tus (irip Pablishing Company, Toronth, hato commenced the pablicat on of a hew monthly periodizal -ntitled Grip's Own Library, the first number of which is befine us it is a collection of comic Hlustantions and inmy sayinga previmsly publighed in Grip. It is printed on work paper, and at the proce of ten cents ought to meet with much fares.

TuEbe were ${ }^{2}$, bio patents issued in Canada last year-which was move than duable the number issued in 1878 . No less than 1,730 were issaded to ressidents of the linited states, 140 to residents of England, fist to residents of Canadn, and the others to residents of
 462 were residents of Ontatio.

He was a profound philostpher whe compared adwertising to a growing crop. He said: "The farmer plants his seed, and while he is slecping the corn is growing. So with advertising. While you are sleeping or cating, your ide vertisement ss being read by persons! who never saw you or hend of jou, or teard of your husiness, and never would had it not been for your advertising."
Tue Nortio-West Commercial Travellers' Assuciation will have therr certificates homored at any station on the Camalian Paritic Ralway: The commenciad travelless of Guada have an adrantasul in the matter of railroad fares ower their hrethen in the States, whel
are now compelled to pay full iares hy the pmosisins of the Intor. are nuw eomphen prevents discrimimation in favor of any clay
tom of Belgian and fureign producus, has issued a royal dectee apponting has brother, the (volnt lletlindre, irensident of the committeo of arrangements, and also namugy the presulents and members oi other necessary committees.
Lospos, Eng., papers report a heely deypute goin: on in that city wer the "vetroi," or taraf" on certain necibsattes of hfo entermin there. The right of the corporation to luy thas tarill will expme next fall, and an elfort is bergg mate tos whation a wenewal of the power. It is gomewhat oded that whale lingland is so aterse te pro. tecting herself against foreign products shic shond allow one frotion of the Kingdom to discriminate against the remamder.
Mu. S. Davisos. Tormate, hats published The Buyers'a dieller-

 :s, and cether tahles of meterest te, mexchants athed others. The aceuraey of the work is assured by the puhbinher. In aditeson 1. the tables there 18 meludel an moterest table at ofx and secen $; \cdot 1$ cent., also other useful miduration in it conense form.

Ir is stated that in the event of the Inier. Sitate Commishon 1 . Gusing to suspend the long and short haul clanse ion the benetit of the tians-cominental hase, the Camadian Pacithe has decided to jun on an indepondent steambuat lime butween Cheage and Pont Arthon, ior the palpure of empeting for the carriage of bacific const freichat, luyth cast and west bound. "Phear taraf rite on theough revish: will be from 40 to 00 per cemt. less than the zates established by theAmericun romb.
It dode Cumpater, of the supheme Court of Comecticut, in a recont decision said: " Boy- oth dues not mean munder, but it is crminal and dangerons, and it is not abandoned the courts at mo distant day will be called upon to reeognizo its dangerous tendeners and treat it accordingly. fro:n thesis consulerations it is apparen: that the purpese of cemspariey or the means by which it wis tol ." acconplisheel or both were nut only unlawful, but as some authori ties express it, 'was m some degree crminal.' '

Mr. Howamp Chamins, 1:0 N:assan Strect, New York City, a. blsimug Challen's Engubers Lang Book of disily rums of engine: which is ruled and printed across two pases, giving the month, dis of week, average pressure per ganee, hours rum, revolutions, nacuan per guage, pistom speed (fect per minute), indicated horst: pences. initial pressure per indicator, terminal press ie temperature of hois well, temperature of heater, water per h.p., lbs. fuel burned, ashe: and waste, oil :and waste used, defeets reported, repairs made, ie. marks, etc. One leat for each week in the year.
Tur eateh of the fishermen of Michigan amounted last ye:at i.. nearly $26,400,000$ prounds, yielding to tie parties so engaged wor ho than 8800,000 , enploying wer 1,700 persons, , h; stean thes, is sail boats, 232 net boats and 165 ghiffs. The value of the. nets loats, ducks and buildings engaged in the traftic is estumarimi at $\$ 1.040,000$. The territory of the fishing grounds whim, the
 syuare miles, or an area equal to three-fifths of the total hand are..
 is totally exclusive of any of the mland waters of the state.
Tue stemers of the Camadn Shippug Company-the Inan... Line--steaning bewwen Montreal mad Literpool, connect at 11:a treal hy durett ral with all jumes m Chualis, Manitobin North. 1. .. Territorics and the laited Siates, us all of wheh pomes thenti-' tickets are issued. These stemuess are built with witer-tight :...n. partments and are of ajpecial strengt i. In the passenger departhe: in the most perfect provision has hece made to secure the comfu:t ani ronernictice of jassengers, and ath experienced surfeon is camped :i 'anth steamer, also stewardessoss to attend 0 the wants of lades and

 bave sent us a copy of a spectication hank pullishond bey then. bir
 zoe propared for brick or irame buldugs of every kind, man the itiferoni forms to suit coss of structures. They neo formulatod 1 : prorionl wehitects, and wowle he manable ho bulders and the e
 fanse of wronss and copying. Thus trm are getting out a line .und ins. yn mexpensive work on phans and details, which is man m
 at Brussels next yeat. doe fenging wermment is entisted in the

THE United States Government have invited proposals from shipbuilders in that country for building five new war vessels. The three cruisers must be completed within 24 months, and the two gun tracts within 18 months from the execution of the respective conclacts. The cost of cruiser No. 1, exclusive of armament, but including equipment, is limited to an amount not exceeding $\$ 1,300$, 00 . The cost of cruisers Nos. 4 and 5, including equipment, but exclusive of armament and premiums for specd, is limited to an aggunbe for both vessels of not more than $\$ 3,000,000$. The cost of sumboats Nos. 3 and 4, inclusive of armament, but excluding equipinent, is limited to an amount not exceeding $\$ 550,000$ each.
The Pemberthy Injector Company, manufacturers of the Pember thy hot water injector; the Ontario Foundry Supply Company,Compacturers of foundry supplies, etc.; the Gale Sulky Harrow H. D. Ed, manufacturers of agricultural implements, and Messrs. ers, cd vards \& Co., manufacturers of Smith's patent belt fastentw, have all established works in Windsor, Ont., within the past Bo months ; the Barnum Wire and Iron Works, Messrs. Evans \& both, proprietors, having been established there since the beginling of the present year. These are all off-shoots from concerns loing business in Detroit, Michigan, and were induced to locate in canada by the operations of the Canadian protective tariff policy.
Messrs. Grand \& Toy, stationers, Toronto, inform us that they Which sole agents in this city for the Tucker letter and document file, Which is certainly a most excellent arrangement for the purpose for page it is intended, a full description of which is given in another a "That is claimed to be the largest filing cabinet in Canada is Tucker business oftices in this city. It porssesses large capacity the principal perfect, simple in this city. It possesses large capacity, and is quick, the American Institute in New York in 1885, at tha Toronto Indus: ${ }^{4}$ rial Exhibition in 1880, and diploma and medal at the Colonial Exposition in London last year.
Colonkl Ingersoll's illustration of the growth of the struggle the labeen labor and capital goes in a pleasant way to the roet of ale whole trouble. "Here is a shoe shop," says he. "One man is ${ }^{\text {orening}}$ busy at work during the day-always industrious. In the mening he goes courting some good, nice girl. There are five other men in the shop who don't do any such hing. These spend half peir evenings in dissipation. The first young man by and by cuts hat these others, and gets a boot and shoe store of his own. Then an everies the girl. Soon he is able to take his wife out to ride of induening. The five laborers, his former companions, who see him realutig in this luxury, retire to a neighboring saloon and pass a labor."

Mersps. Geo. P Rowell \& Co. of New York, have issued the ${ }^{4}$ Aheteenth anco. P. Rowell $\&$ Co., of New york, have edition of their standard publication, the exharican Newspaper Directory." The new volume contains an that any one list of all classes of publications so admirably arranged $b_{0}$ ready one of the three thousand newspapers represented there can With it y referred to, and all important facts concerning it, together $\mathrm{D}_{\text {inect }}$ circulation, rating, etc., easily obtained. The Newspaper vertisiny will be used principally by publishers, advertisers and adit raluable agents, but the vast fund of information it contains nakes gavetteer alone it is of almost every trade and profession. As a arribes every town in which a ne price charged, $\$ 5.00$, for it ithy kow about any place where one is not.
Mrasus. A. S. Manders \& Co., whose head ottice is at Melbusines, Victoria, Australia, are doing a large and rapidly increasing "neh good that country as manufacturers' agents for the sale of and they as may be wished to introduce into the markets there branch offices ite correspondence regarding the same. They have Auatralia, at at Sydney, New South Wales, and at Adelaide, South jobbors, deale which three puints they are within easy access of Manch officesers in Lond large consumers. They have also established evirs. Nicholls \& Howland, 63 Front Street West this city, being facturenadian representatives. The attention of Canadian manu-
Wuld do wo desire to extend their trade to the Australasian islands
$N_{i c h o l l s ~ w e l l ~ t o ~ c o r r e s p o n d ~ w i t h ~ M e s s r s . ~ M a n d e r s ~ \& ~ C o . ~ M e s s r s . ~}^{\text {d }}$
Howland will give information.
Thr United States was the only country in the world that made
production of 1885 , her increase be:ng $1,640,017$ gross tons. It is estimated that Russia increased her production 6,000 tons, Spain 4,000, and Austro-Hungary 17,000. On the other hand, the other principal iron-making countries of Europe show a total decrease of 920,225 tons, distributed as follows: United Kingdom, 379,992; Germany, 411,972 ; France, 102,495 ; Belgium, 15,766; Sweden, 10,000 . Taking all the European countries named, they produced 893,225 tons less of pig iron in 1886 than they produced in 1885 while the United States, as stated, produced $1,640,017$ more. In other words, almost wholly owing to the great increase in the United States the chief iron-making countries of the world made about 746,055 tons more pig iron in 1886 than they made in 1885. -American Manufacturer.

There is but little doubt that systematic undervaluation is carried on to a great extent, and that, vigilant as are the custom's officials, but a small per centage of frauds are actually detected. The only way to mitigate this evil is by the substitution of specific for ad va'orem duties, and we are pleased to note that the Govermment appears to be favorable to such substitution wherever practicable. According to the public accounts of the fiscal year ending June 30th, 1886, seizures at the different ports were comparatively small in amoust. The figures show that the great bulk were made at the port of Montreal, which probably explains the opposition from that city to the penalty clause of the Customs Act. Toronto appears to have the best record for commercial morality according to the following abstiact: The fines for undervaluations in Montreal were
 $\$ 4,018$; and in Toronto, only $\$ 1,614$.

When the Dominion Government were arranging to have Canada properly represented at the Colomial Exhibition in London last year, they employed the Automatic Refrigerator Company, of Ottawa, to fit up suitable refrigerators in the steamers Sardinia and Vancouver, in which such perishahle articles as fruits, vegetables, etc. were to be sent over. These refrigerators were constructed on the Hanrahan patent, and when the steamers arrived in London it was found that their contents were in most excellent and perfect condition, and the Government were so well satisfied with the results that the Minister of Agriculture, Hon. J. Lowe, wrote a compli mentary letter to the makers regarding them, and in which he stated that the results had been in all respects satisfactory. and fully realized the anticipations which were formed concerning them. The manufacturers are meeting with a large demand for these useful articles, and will have a fine specimen in the Permanent Exhibition of Messrs. Nicholls \& Howland in this city.

We are in receipt , $f$ the annual report of the Board of Trade of the city of St. Thonas, Ont., which also contains statistics of the business and other interests of that city for the year 1886. Issued by authority of the Executive Council. The names of the officers, council, and other members are given; also the report of the coun-cil-a most interesting paper customs retuins; of foreign imports and exports for 1885 and 1886 ; statistics showing the importance of the city as a railway centre; a condensed description of the manufacturing industries existing there, and other important information regarding the lucal newspapers, hotels, banks and other monetary concerns, churches, schools, etc., and suggestions regarding the advantages of the city as a manufacturing center. The following manufacturing industries are enumerated in the report:-7 carriage and sleigh factories, 1 cigar, 1 boiler, 1 broom, 1 book bindery, 2 pump, 1 carpet sweeper, 1 hay fork, 5 harness, 1 iron fence, 1 marble, 1 organ, 1 brewery, 2 cider and vinegar and 1 flax factory, besides several mills and similar concerns. St. Thomas is certainly a thriving, growing town.
The passengers by the steamer Lake Superior of the Beaver Line, lately arrived at Montreal from Liverpool, presented the following address to Mr. H. E. Murray, the general manager of the company in Montreal :-" Now that the tide of emigration has begun, and people are flocking from the old country to the new, we, the undersigned, steerage passengers per the steamer Lake Superior, wish to make known on both sides of the water our sense of the care, kindness and attention we have received on board from Captain Stewart, his officers, the doctor, Steward Welsh and his ataff. The food has ween good and plentiful, the sanitary arrangements all that could be wished for, and our various other comforts have been excellently attended to. With regard to sleeping accommodation, we found the berths comfortable and well ventilated, abundance of room being allowed on deck for passengers, and we would mention the special care taken of the women and children. Many of us are old travellers, and find the Beaver Line is all that can be desired, if we
may fullge by the steamer in which we havo crussert." This wiss signod ly the passengens to tho number of ninetyonts, many of them be wing heads of familics.

Is tho abstarat, wo she can gansay the inmonse limperial importanee of the completson of a malway from owan $t$. . $e$ oran acrost the Britash fortiom of the Xorth imerican comtment. It is at magniticont illust mation of colonats oneryy and enterpmes. ft buings the
 It furmeshes, whonevor we choose to use it, a means of thansit and transpurt $\ln$ onr possessions in the Eant, Jing entirely wo far as the land is concerned, in British terromer, and. wifar as the seat is concorned. in these portions of the two in eams which seem designed by
 atfords an invaluable alternatese the the Iw existiner routes to tho Fibst, by the Suez cianal and roumd the Gipe, satior than tho canal route and more expeditions than the " ifermon, and considerably shorter in porme of timu to all Griental prorts castwath of Hong Kion: 'These adrantages, important in the time of peace, woulit bueome inestimable in the case of war with a maritime power. We posucos docks at Espuimalt capmble of recewnug the largest ronchad, and lanconver possesses the only gend comal supply wine Nowth Pacilic: A further iduantate of this alternatue ronte to the East is that it affords the potentiality, thonfh not at present the actual. sty, of a dane of telegraphe communimatom with our Eistern possussions lyiug wholly within British territory and control. 'Ihe Nouth Atlantic wonld in the case of war with a first-class Enoopean power become our most mportant line of maritme communcethon. If wo could nost guaril it from sorious depredation we should sutfer in
 interests, to make onmelves equally strone ia tho North lacific. Tho Canadian line, therefore, atfords the raly hae of telergraphic commmaication with India nn which, so ling is we retained effective command of the sea, we conld absolutely depend. It womlal also be equally valuable for military transport. Fien if the canal and Cape route remained, we have the authority of land Disferin, as quoted by Iord Harrowby, for saying. "that the etteet on the native mund of Eurglish troops reaching India from the East as well is the West would be enormous."--Lomion l'imes.

## Comml'nication.

Tute following commumication explains itself -

## To the Eiditor of The Canabian Manuyartiner.

A number of articles and heters havo recently appeared in cine daily nowspapers of thas city which are coblenlated to throw a slur upon the character of the minufactures who happen th be menbers of the Toronto Board of 1 rule, the. recene verdict of which wh "Commercial (mon ' has beenstyled "od puor expression of nine hundred members," "a suap juikenctut." eri.
fou will romember that a meeting of the Buard was called on Friday, Ming listh, for the purpose of discussing the present and prospective relatsons of Canada with the I nited Sitates. At that meeting a certain morion and amondments were moved. and at ten o'clock, on motio: of Mr. Rose, the meeturg was neljuurned untal Thursday, May lath. At thas latter meeting-une of the laryest and most representanve gathernes that has over congregated at the Tonontol losrd en Trade rooms-a isubstitutive motion wis moved hy Mr. John Mel. mald racot a manafactmer), and smpported hy a strong addres b he tha terutleman.

The muetin. was cilled for eight whlock, but at was half past
 at ten onlock tinee or four very interestug addresses had been
 agianst the orgenain mothon. For some reasun dithcult to understam. Hr. Hesseagra mom ed an adjotimment, which was nuen pected t: a larece number, "how, at the lass of other impurtant engagements, hail madu it ineant ta, be present, but that motion was votuld duan hy a laree bajorat. At this a considerable number left the room, cilling fort's ndignant rematis from ono of the members of the kuari as t . 'hell . liscuurtesy in leaving the meetitur ifter the motion of aijommment had heon defented. It then become apparent that thewe were a number present who intended, if pessible. to stifte any further discussom that enening by comtinually making motions to asdjurn. The reasons adisanced for adjournment were that atmenber of members who wished to womess their views could a:t be
 When that reasum whananceathe writes woticed that a mumhic of gentlemen dren Jhilmarmome tachects iam, therr pockets, wil stated that they consudered thar outendance at the buand meetiar of mere importance than at concert, and ats they were present to
hear this question discussed, thoy certainly were not prepancel ia havo a motion of aljournment carried at such an carly hour in the evening, only one and a hadf hous having been taken up in the das. cussion, and not moro than three or four uhleresse's dehvered. However, the obstructionists seemed determined ta curry thimouramont, and ono hour and twenty minntes of what woild hase been valuable time in diseussing the guestion wiss wasted in discusa ing motions of adjourmment. Ar: Darling clanmed tho privilege on replying, which prisilego was not denied hing if ho wished tas rojly there and then, but certainly the lload conla mot tatio his alisinchi nation to do so as an excuse to adjourn the mecting to a further date when so many gentlomen were present to hear the discossion. Mr. Darling then stated that thero were thoso present who would keep the Board talking all night rather than this yuestion should como to a vote, and motions of adjournment were arain preased.
To off-set this deliberate attempt to thrittle the clearly exprossed wishes of the Board, and as repeated motoms to adjourn could onl. be defeated by moving the precous yuestion, the provious questho. was demanded, and Mr. John M. Donald's substitute motion was voted upon and carried almost unamimously.
Irofessur (ioklwin Simith states that about cighty members of the Beated of Tmale, out of atotal membership of about nino hundral. roted fon Mr. McDomald's motion ; hut there were not less than one: hundred and forty members in the room, and there were not mon. than eight or ten of these Who voted arpainst Mr. McDonahis motion. Mr. Goldwin Simith looks upon this vote as lut a penr expression of the views of the lBoard of Timele; hut 1 believe 1 ann currect in stating that it wrs perhaps the Jariest majority of :uns l3onrd meeting that hasever yet heen declared in faror of a motini Nearly all questions of inpurtance which come before this lionil atre usnally discussed and voted upon by mot. more than from thinty tu forty members, and many of the mectings of the boaral hawe nit moro than the bare necessary quorman of fifteen members present. As an illustration of bow impertant. business has been tunasactred at lhard meetings where but is quorun were presant, a largo numher of members who had been induced to join the Iboard vecause of the privilege that to two or more members of a firm, the ammal fee for eath would be 87.50 instend of $\$ 10$. This was to meat in objectin. that one representatue from a lirm was all that was necessury to represent tho views of that firm at the lboard, hut at a meeting of the Boand, at which a motion was carried reduiring that all members should pay a ten dollar entrance fee, and where it was learned that upwarls of three hundred members nould beaffected by the moti-:., the motion was carried, although thare was but a bare quarum present at the mecting. There were not more than about twenty members present to vote awiay the privilege aceorded to theso thrie humled persons, and only two days' notice had been given the numbership to either suppert or defent that mution. It was shown that two ur more members of a firm did not have ephal rights with the wher uemiers of the Board, in so far that only one memier of a firm could be an ofticer or member of the comeil, int the vote was cartich, and by the lave quarmon of the Buarl of Trade thre humbed mombers were deprived of a privilege that hats han acconded and enjuged for upu.ands if twenty tear.

 the views of the Buard of Trade, fon it was certa...lly the must when
 come before the loard since its inception It is also iair to assumb that thoso present were tho most active ant anost, meterested in ibe question at issue, adding still greater importance to the resultm, vote, and that the stitling of diseussom, mstead of lemg on the side, as alleged, of a few of the manufacturers wins were present, and the large number of busimess men who supported Mr. MeIonalits motion, was really on the sidu of the disappuinted few who huper! by obtaining adjoumment to doprive the mombers who had e.rim. prepired to speak upon the subject oi the opportanty of exper smas thour views. I write you, Mr. Editor, thinking it adusil,h that this insinuation in our daily press should bo rejnifed to, and + h $\cdot$ in. public may be properly informed as to the conduct of thrit murims Yours truly,

1) W Fims
'Comosto, May en, lisi.
Ture tirst of the three Cumard stemmers purchased for the Comalian I'acitic Lailmad ocean trattic, to ply between Yomg komg and Vinewuver, was advertised to sail from Yokehama May g!!. Tiw l'autic Conast. Steanship Company has filed a bond with the eollectur f the pu it of Sit Francisco for \$100,000, which will be f.rwornim for alymial to the Department at Washington, which. if arriopent
 Pruget Simmed and 'le ('in. dian mand, and compete for the e... and lice tride.

## Oxamufactwring.

THE CANADIAN MANUFACTCRER.
Send $\boldsymbol{\$} 2.00$ and receive it twice a month, postage paid, for one year.
Work has been begun on the new pulp mill of the Toronto Paper Company, being built at Cornwall, Ont.
Mr. G. A. Docll, Sackville, N.B.. is erecting a wood working factory 50 by $3 \overline{5}$ feet, three stories high.
A. C. Miller \& Co., Picton, Ont., are building a new factory for canning fruits, vegetables, etc. The building is $85 \times 36$ feet, three stories.
The Record Foundry and Machine Company, Moncton, N.B., have applied for incorporation. Mr. A. E. Peters has been elected president.

The municipal authorities of Port Hope have accepted the proposition of the Williams Piano Company of Toronto, to move their works to that place.
At a recent meeting in Montreal of the Dominion Type Founding Company, Mr. Alexander Murray was elected president. A dividend if five per cent. was declared for the preceding half year.

Messrs. Moure \& McGarvin, Acton, Ont., manufacturers of trunks, valises, satchels, etc., are enjoying a gratifying demand for their goods. They will make an exhibit at the forthcoming Toronto Industrial Exhibition.
Messrs. Englayn \& Sovs, tanners, of Knowlton, Que., have recently purchased a large quantity of hides in Hong Kong, China, Which will be shipped to their works at Knowlton by the Canadian Pacific Railway from the Pacitic coast.
The Oshorne-Killey Manufacturing Company of Hamilton, Ont., are supplying the motive power for the new chemical pulp factory at Chatham, N.B., which consists of three boilers of 130 horse power each, and a pair of engines, $c$ upled on the same shaft, of 300 horse power.
The Aylesforl Canning Company, Limited, seek incorporation. Their place of business will be at Aylesford, Kings County, N.S., and capital stock 85,000 . They intend to manufacture canned preserves, evapurated corn, beans and other vegetables, fruits, pickles, Negar, ete.
Messhs. R. Ehrharit \& Sin, Moncton, N.B., do alarge amount of silver and nickel plating work for stove manufacturers, for railroad cars and locomotives, etc., besides plating knives, forks, ${ }^{\text {spongs, etc. }}{ }^{\mathrm{D}}$ uffy is understood that this concern will go in with Mr. Duffy when he starts up work in his lock factory.
IT is understood that work will, at an early date, he resumed on the Ontario and Quebec Railway on that section of it which will form a second direct line between Ottawa and Toronto. Already rains are running over it from Toronto to Bridgewater, and as far as Perth the line is graded and ready for the rails.
Application is made to Parliament by the Hydraulic and Manufacturing Company of St. Johns and Iberville for an act of incorPoration, empowering them to make improvements on the Richelieu iver, utilizing water power, etc. The capital is fixed at $\$ 100,000$ and the chief place of business is St . Johns, Que.
$A_{8} \mathrm{ONR}$ of the results of the new duty of 35 per cent. on forsign 8on nufactured paper of the finer kinds, Messrs. J. B. Rolland \& On, the large paper men of the city of Ottawa, have decided to Commence the manufacture of such paper at their extensive mills at Work. Jerome, and already 200 hands have been engaged for the
Ataffimpletr plant has recently been erected at the works of the Cranurdshire Steel and Ingot Iron Company, Bilston, Eng., for the srinding of basic slag for agricultural feitilising purposes. The slag of ing composed of 40 per cent. of lime and from 15 to 20 per cent. phoaphoric acid, its value as an agricultural fertilizer is becoming creasingly appreciated.
In Swoden, the stumps and roots of trees remaining after a wood oil by cut down, are being used for the extraction of illuminating noto, acestis distillation. Other products, such as turpentine creozine this actic and tar, are also obtained. When mixed with benaine this oil cand tar, are also obtained. Wh ordinary benzine
lamps. It is reported that this industry promises to become very important.

In factories where pencils are made in numbers, a simple method of counting has been devised, with a view to saving time and trouble. Strips of wood are empluyed, having in each 144 grooves, and the workman, taking up a handful of pencils, rapidly rubs them along the board once and back, thus filling all the grooves in which the pencils lie, similarly to pens on a rack. In five seconds a gross may thus be counted, without the least likelihood of making a mistake, and much time and labor are saved.
The works of the insolvent Peters' Combination Leck Company at Monckton, N.B., according to the Times, are to be put in operation again, this time by Mr. D. A. Duffy. The company, previous to its being placed in liquidation, gave employment to about 100 hands. The buildings include a three-story brick factory, with detached wooden buildings for moulding shops, japan shop, etc., all stocked with the necessary appliances and machinery for the making of builders' hardware in brass and iron, tools, machinery, mak., with an extensive plating department.
ot

Mr. Gray, of the London Crockery Manufacturing Company, London. Ont., is reported as saying that his conppany's works are the only establishment of the kind in Canada. The recently erected buildings cost $\$ 50,000$. The products embrace ruck ware. caneware, Bristolware, salt-glazed ware, terra cotta, fire bricks, chimney tiles, smoking pipes, bath-brick, sewer pipes, whiteware and many other slines of crockery and stoneware. The works employ over 100 hands. During the past winter these works manufactured some 500,000 door knobs for the Peterborough lock works, and expect next year to turn out for the same company over a million knobs.
There are in the Dominion of Canada at the present time the following iron and steel works :-Londonderry, Nova Scotia.-Two coke blast furnaces and a refined bar mill, with puddling furnaces, forge, etc. Three Rivers, Quebec. - One charcoal blast furnace. Drummondville, Quebec.-Two charcoal blast fumaces. New Glasyow, Nova Scotia.-Open-hearth steel furnace and rolling mill. Halifax. Nova Scotia, (one,) St. John, New Brunswick, (three, ) Montreal, (four,) Hamilton, Ont. (two)-rolling mills for reworking Montreal, (four, Hed bars, inostly into nail plate. New Glasgow, (one,) Hamilton, (one)-forge for working scrap, mostly into car axles. Montreal.-Rulling mill for making butt-welded pipe.
ane,

The Simons gas well, owned by one of the Toledo, O., companies, has lately been accurately measured and its exact capacity determined. This is shown to be $12,400,000$ feet per day. For use as muel 12,000 feet of gas is equal to one ton of the best bituminous cual. By this reckoning the daily product of this well is equal to 1,033 tons of cual; 7,231 tons per week; 376,012 tons per year. One well is supposed to draw from about eight acres. The two Toledo companies control by purchase and by lease 50,000 acres of tested gas lands in the vicinity of the Simons well. Two companies are now piping her streets, intending to lay 150 miles of pipe this summer, and over $\$ 25,000$ per week paid out to common laborers summerl continue to be until next snow comes next winter. Whilo a "boom" is inevitable, the public sentiment is against it, and no encouragement is held out to professional boomers, but open hands are offered to manufacturers, who are turning that way from all over the country. Toledo's shipping facilities are unsurpassed, and over the countries promise lower prices than in Pittsburgh.
the gas

The Londonderry Iron Company are soeking incorporation for the purpose of acquiring the iron works at Londonderry, the head ontice to be at Montreal, and the capital stock to be $\$ 1,000,000$. Regarding this enterprise, and Canadian iron interests generally, the Montreal Star says that this is the only establishment in Canada at present manufacturing pig iron with coke as fuel, but other blast furnaces are certain to be startod as soon as adequate protection is assured. A larke amount of capital is at present uwaiting investassured. Aictou County, N.S., where the coal, iron and limestone ment in toger in almost unlimited quantities. If adequate protection is granted this session, work will be commenced immediately. It is granted that the projected Pictou county enterprise will be the only new establishnent of the kind started immediately, but a number of companies have been organized for the manufacture of number of companies har Canada, and there is no doubt that when prutection for the iron industry is acknowledged to be the settled prolicy of the Government, the flare of the blast furnace, now so unfamiliar a sight to Canadians in general, will be seen at night in every province of the Dominion. Canada is prubably by nature every province endowed with stores of iron than any other country, and it is an established fact that no other manufacturing industry directly and indirectly gives employment to as much labor as iron. making.

## Gextiles.

## THE CANADIAN MANUFACTURER.

Send $\$ 2.00$ and receive it twice a month, postage paid, for one year.
Mr. J. W. Wallace, Lindsay, Ont., is building an addition to his woolen mills, which will be occupied by Mr. Nicoll and others as a button factory.
Messrs. McCrae \& Co., Guelph, have secured the contract for supplying the North-West Mounted Police with 2,000 shirts and 2,000 pairs of heavy drawers.
The Courtenay Bay, N.B., cotton mills are now owned by Messrs. William Parks \& Son (limited), the former proprietors the St. John Cotton Company having ceased to exist.

The amount of capital invested in the print mill at Magog, Que. is $\$ 450,000$. It is said that this mill is producing about six million yards annually, or about one-fourth of the prints that are consumed in Canada

Messrs. Davin Hambieton \& Son, Lachute, Que., make a spe cialty of manufacturing bobbins and shuttles for cotton, woolen, silk and worsted manufactures, and make to order picking sticks, skewers, spools, etc.

The British American Dyeing Co. of Montreal and Toronto are making important extensions to their works which will be completed during the coming summer. They will include a new dye house 80 by 40 feet, another engine room 36 by 25 feet, two extra drying rooms, and a room to be devoted to a new French process of cleaning. These extensions of themselves are claimed to be larger than any other dye works in the Dominion.
The Bulletin of the Philadelphia Textile Association estimates the wool clip of 1887 at $52,871,524$ pounds washed, and $208,595,126$ pounds unwashed wool, which, compared with the estimate for 1886 by the same authority on the same basis, is represented as indicat ing a decrease of over twenty million pounds for 1887, four million pounds decrease being alotted to the combing-wool States, and twelve millions to Texas. A decrease of nearly thirty-three million pounds is estimated to have taken place since 1883, or since the present tariff went into effect.

The year 1886 was one of the most prosperous years in the history of the Bumbay cotton mills. Besides a good local demand, Indian cotton goods were taken by China and Japan in greater volume than ever before. The total exports of cotton goods were 219,959 bales, against 173,537 bales the previous year. Of these China took 199,407 bales and Japan 20,543 bales, against respectively 199,407 bales and 19,020 bales in the year 1885. A large increase in the capacity of the Bombay mills is reported as a consequence of the improved demand and prosperous trade.

Unitrd States Consul Grinnell writes to the State Department at Washington, from Bradford, England, giving a table showing the value of woolen goods exported from the consular district of Bradford to the United States during the past twenty years to have aggregated $\$ 230,944,839.09$. In 1882, the year preceding the passage of the Tariff Act of 1883, the importation of woolen goods from Bradford amounted to $\$ 8,161,188.46$. In 1883 the importations rose to $\$ 10,766,497.27$, and have steadily increased since that year, smounting to $\$ 17,877,892.65$ in 1886.

The business heretofore carried on in the town of Dundas, Ont., by Messrs. Samuel Lennard \& Sons, will hereafter be under the firm name of $S$. Lennard, Sons \& Bickford, the co-partners being Messrs. Samuel, S. J. and H. Lennard, and H. Bickford. This concern are the patentees of the "Elysian" seamless hosiery, and manufacturers of plain and fancy hosiery, caps, tuques, sashes, etc. Messrs. F. W. Newman \& Co., Montreal, represent this firm in eastern Ontario, Quebec, Nova Scotia and New Brunswick: Messrs. Peddie \& Co. in Winnipeg, Man., and Mr. S. Lennard, senio member of the firm, in western Ontario.

Under the old system of cotton mixing, the cotton is taken from the bale, pulled by hand, and then thrown on to the mixer. but the unsatisfactory manner in which this work has been performed has led to the construction of a bale-breaker, which is specially designed and adapted for this important work. The machine consists of a lattico, one connecting roller, and three pairs of breake rollers. The special features in its construction are principally the breaker rollers, so arranyed-with a well-proportioned draft between each pair-that all the features are obtained, and the ootton
from every bale is equally and well pulled. This machine will pull and lay down 90,000 pounds of cotton per week, with only two men in the mixing room.

The Oxford Manufacturing Company, of Oxford, N. S., have just patented in Canada and in the United States a valuable mprovement in carding machines, consisting of a simple attachment by which an endless variety of patterns may be produced, differing in style from anything hitherto manufactured, a specimen of which is now before us. Many handsome patterns, of these goods are being shown in summer weig ts, the company's trade mark - a tape woven acruss the ends-being shown in every web. We learn that goods made by this process are meeting with extensive sale broth in Canada and the United States. All these goods are made of pure wool, and may be relied upon for good general service.
Initiatory steps have been taken at Ottawa and Montreal for the formation of a new woolen mills company, under the name of "The Globe Wuolen Mills Company, of Montreal," of which Mr. T. J. Claxton has been elected president. The Montreal Herald says that the company have already secured the old Corriveau silk mils property. They intend to erect large buildings extending on Papineau road. These buildings have already been contracted for, and arrangements are being made to push forward the work, so as operations at the mills can be commenced about the first of July. It has been decided by the company to make a fine class of woolen dress goods. The capital of the company is $\$ 200,000$, and it is the intention at first to employ about 200 hands, bnt the capacity of the mill, it is said, will be doubled as soon as possible.
Mr. Peter $W_{h i t e}$, the managing director of an Irish woolen nanufactory, recently arrived in New York says:-"Part of ny mission to this country is to find out what articles America buys from other countries, with a view of obtaining a share of the trade for Ireland. I would not, as a business man, come here were I not in a position to compete in the open market with all comers. The history of the Irish woolen trade is very interesting. As far back as 1600 we were renowned for the quality of our serges and tweeds. In the year 1698 both houses of English Parliament presented petitions to William, who was then king, asking him to discourage the manufacture of woolen goods in Ireland, and he did it. Parliament passed an act prohibiting the export of wool or woolen goods from Ireland under pain of forfeiture of goods and ships and a penalty of £500."

The most recent development in the Bradford, Eng., trade, and one which will doubtless be far-reaching in its effects upon the trade generally, is a process by which certain cloths are made perfect!y water-proof. Hitherto the common term "water-proof" has had two signilications--first, the old process of water-proofing tweeds, and latterly the adaptation of it to all-wool cloths for ladies' over cloaks by putting them through a solution of sugar of lead and alum. This process, however, lacks permanence, as after a few wettingb the virtue is gone and the garment is no longer of value as protec tion from rain. It is claimed to be the only permanent and hygienic proof yet produced, superseding the earlier rubber and Mackintosh processes from the fact that the cloth after treatment remains 25 porous as in its original state, impervious to wet, damp or mildew. Hence it can be sponged, ironed and dried again and again, without any shrinking or other effect upon its appearance or rain-repelling qualities. For ladies' wear, or spring and summer suitings light overcoats for men, the new cloth will be invaluable.

The Australian wheat crop is reported as now safely harvested, yielding about twelve bushels per acre, and giving a total crop of about $12,000,000$ bushels. Of this amount about $5,000,000$ bushels will be available for export, or about three-fourths of a million bushels more than the surplus of the previous crop.
Information from Washington states that recent correspondence with the Canadian Government has resulted in an understandinf that the Canadian regulations in regard to the towing of vessels in Canadian waters and at Canadian ports by American tugs shall be amended so as to extend to American tugs when in Canadian waters, "the same rights and privileges as are granted to Canadian tugs in American waters." Complaint was made by the Britiel Minister that full legal privileges were not extended to Canadisl tugs when visiting American harbors in the upper lakes. The Treasury Department has issued a circular to customs officers callipf to their attention to the law on the subject, and instructing them to allow Canadian tugs visiting American harbors full privileges under the law.

## פRilling.

THE UANADIAN MANUFACTURER.
Send $\$ 2.00$ and receive it twice a month, postage paid, lor one year.
Mk. W. H. Lingham, Belleville, Ont., has recently put his 75 barrel roller process mill in operation.
A thirty-thousand-bushbl elevator will be erected in connection with the new flour mill at Rapid City, Man.
The South American Trading Company, of Montreal, has been organized with $\$ 60,000$ capital, to manufacture and prepare for market all sorts of foud products.
Work will shortly be commenced on the 1,000 -barrel flour mill and elevator, to be built at Keewatin.
Thr Ogilvie flour mill at Winnipeg will be increased about 200 barrels in capacity, to 1,000 barrels per day.
AT the auction sale of real estate held the other day, the city grist and flour mills were sold to Messrs. James Stevenson, M.P., of Peterbon, and Alex. McDonnell, Lindsay, for the sum of 87,000 . Peterboro' Review.
There are nearly 3,000 flour mills in the Dominion of Canada, representing about $\$ 10,000,000$ of capital. Commercial union and practically wipe this industry out of existence.- Mechtitical and Mulling News.
During the earlier days of new process milling there was a good thoy of sentiment about the use of rolls. Millers would say that had hadn't a millstone in their mill-that the day of the millstone pair passed. Before many months there was a secret wish for a rermal the old millstones to finish on, and as this wish becam Now abroul, many millers replaced one or more pars of the buhrs. Now
come every well ordered roller mill has buhrs in it, to the grea of the miller
THE time will come soon when roller mills programmed on the old system of making hominy will find their yield so small that they cal system able to compete with mills running on a more ange will hot be an expensive one. All they need will be to drop out the tions. tons. And experience has demonstrated that the sieve action, in Case. of reels, is the correct principle for separating meal.-J. M.

An Iowa paper says that one effect of the prohibitory law in that markets been to divert a large quantity of corn from the distillery production send it to the public through other channels. and as hof hominy, in particular, has been greatly stimulated, qualities, is much less injurious than the liquid product of corn, the operation of the law is clearly shown to be beneficial in at least one -Chican. This is what might be called the argument ad hominy.

## Tribune.

given tould be a good thing for the millers if consideration were The item the subject of packing flour in sacks instead of in barrels. trake quite a profit of the barrel over that of a sack is enough to reacon for a profit in a year's run, and we can see no to ship
floar use of the barrel. It costs more to ship benefit packed in barrels than it does in sacks and gives no one any from thexcept the coopers. Many housekeepers empty the flour home the barrel into the flour bin as soon as it is taken into the Where it will fall down and be used for bindling wood.-Millstone.
$\mathrm{I}_{\mathrm{r}}$ is expected that an important trade will be opened between hare port and Antwerp in low grade flour, as a number of shipmento Which have made to that port from Canada during the past winter, tie of have given great satisfaction. It appears that large quantias Can this class of flour are used both in Belgium and Germany, and proceneda has a considerable surplus to spare as a result of the roller derelop. Some of our dealers appear to be quite sanguine of the
for a ma a long time past been a complete drug in the market. It is cstithe Cont one of our leading dealers that a market can be found on this be so lotter recent a heavy additional export trade may be relied upon. A Pery muchtly received from Antwerp says that Canadian flour is much appreciated in Belgium.-Montreal Trade Iulletin.

There is no such thing as a standard product from flour mills. Each mill has a standard of its own. It is variable, the miller improving or making an effort toward improvement every year. Milling is perhaps the only manufacturing business where there is no fixed standard for the product. The difference between the same grade of cotton goods from any of the many cotton mills of New England is so slight that there is very little choice to be made. Who can say anything like this for the output of our flour mills? There are some reasons why this desire on the part of the miller to improve his product is a good one, it keeps him always abreast of the times. But when this desire for improvement is coupled with an effort to keep his improvement to himself it does him harm. No man can get the amount of good from his own experience that he can from the combined sxperience of those who are working in the same line with him. Thus he is in the run a loser by his secretive spirit. A free interchange of experience, a standard grade of goods, would do much to keep up the quality of the flour from sur mills, and would, through the aggregate knowledge of our millers, do so much to cheapen the product that there would be more profit in milling than is possible nnder present conditions.-Millstone.
The name of Geo. T. Smith, of Jackson, is known in all civilized parts of the earth, or at least in all places where wheat is ground nto flour. His invention of the purifier now universally employed in flouring mills. his great legal tussle for his right as inventor, in which he fought single-handed against one of the strongest combinations ever formed, and his final victory, are still fresh in the minds of all who are interested in flour and wheat. Wilhout the purifier no mill could compete for business. Almost every mill in the world adopted it and nearly all fought against paying for the privilege. Their combined strength, however, availed them nothing, and now Mr. Smith receives an enormous income from royalties. Other changes, the introduction of rollers and numerous improvements, have made the flouring mill of the present day quite unlike the mills that poets used to write about. The aim of the millers of the present day is to obtain the highest possible percentage of "patent" flours, and a mill which gets sixty-five per cent. has been considered about as near perfection as possible. Pillsbury, the great Minneapolis miller, obtains sixty-five per cent. and is considered quite above the average in success. Not satisfied with once revolutionizing the mills of the world, Mr. Smith is just now sending consternation among the millers by another improvement by which he guarantees eighty-five per cent. of patent flour, a gain of wenty per cent. over the hitherto best average. If $A$ and $B$ are millers, and the former gets twenty per cent. more patent out of his wheat than the latter, B will go to the poor house. Any business man, even if not a miller, can understand that, especially in these days of hot conpetition and small margins. It will therefore be necessary, if Mr. Smith succeeds, for all mills to adopt tha new method or go out of the business. This, if they desire to keep pace with the procession, will involve a very heavy expenditure. Mills that up to a few days ago were considered perfect, will have to be entirely changed. Good machinery in perfect order will be torn out, and a complete new plant substituted. The matter is now under consideration by the owners of the Union mills in this city. For mills of the present capacity of the Union the change will cost $\$ 30,000$, but it is probable that if the change is made the capacity will be increased and $\$ 50,000$ expended in making the improvements. Pillsbury has given the order for fitting three mills with new machinery at an expense of $\$ 150,000$. At this rate the profits of milling will all be required for improvements, for the plant in nearly all mills is now new, and in many instances has not produced flour enough to pay for itself. Most of the mills in Detroit have been furnished with improved machinery within the past three years. All of this is in first-class condition and the millers will kick it into the alley with great reluctance.-Detroit Free Press.

The following patents have been granted by the United States Government to Canadian inventors since our last issue :-Charlotte C. Cannon, London, Ont.-dish drainer. Elouild Duplessis, Lake Weedon, Que.-car mover. G. S. Hanes and A. Shaver, Iroquois, Out.-fire escape ladder. J. B. McLaren, Winnipeg, Man.-safety water guage. Delphis Picard, Montreal, Que. - wood-working machine. E. K. Barnsdale, Stratford, Ont.-wire fence advertiser. Tronson Draper, Petrolia, Ont.-ball turning lathe. W. E. Forster, Lawrencetown, N. S.- gun cleaner. George Harvey, Winnipeg, Lawren. - apparatus for cleaning chimneys. John Hepworth, Montreal, Que. - variable expansion gear. Daniel Kearney, Montreal, Que.-stop-valve for water service pipes. Georye and R. Kennedy, Que. - Westminster, B.C.-automatic perforator for printing preses, George Valiant, Toronto, Ont.-boot or shoe (4 patents). John Williams, Quebec, Que.-ventilator.

## Qumber.

## THE CANADIAN MANUFACTURER

Eend $\$ 200$ and receive it twice a month, postage paid, for one rear.

## SPRUCE LUMBER.

There is no lumber growing in America to-day, says a Boston, Mass., paper, which sells at so low a price, in comparison with its intrinsic value, as spruce. We know of no wood that could fill its place for light frames or for general building purposes, where strength, stiffness and lightness are to be combined in one kind of lumber. Spruce lumber has always been supplied so cheaply to builders that its real value has been under-estimated or perhaps overlooked. It is a lamentable fact that the grand spruce forests of northern and eastern New England have been largely sacrificed without any corresponding gain to owners, operaturs, mill men, or even to lumber dealers.
The pr ncipal growth of spruce in America is confined to Maine, New Hampshire and Vermont, the Adirondack region in New York, and to Lower Canada, including New Brunswick and Nova Scotia. There is little spruce west of New York State and of the Ottawa river, in Canada. Spruce is in much smaller supply on this continent than either pine or hardwood, and is of much slower growth than sapling pine. A scarcity of spruce, which is not likely to occur in this generation, would, however, prove a most serisus inconvenience to builders.
The supply of pitch pine in the Southern States is greater than the aggregate growth of spruce in the Northern States, and for many purposes in heavy mills, bridges and warehouses, the former is the better wood. On the other hand, in the construction of ordinary dwelling-houses, roofs and light work, spruce is preferable. It is light, strong, and easily worked. When spruce can be used, it is much more economically handled and framed than Southern pine. A carpenter would hardly take the gift of Southern pine for the plates, girts and posts of an ordinary frame house if he could buy spruce at present rates. Norway pine has only about two-thirds the transverse strength of spruce; sapling pine is deficient in strength in comparison with spruce, although easily worked.

The great development of Southern industries has infused new life and enterprise into the lumber manufacturing of that section. Northern capital and machinery, tram railways, improved logging. manufacturing and freighting facilities, have reduced the cost of Southern pine lumber delivered in Northern markets. Again, during the past few years, the pitch-pine business has been overdone, and many a cargo has sold at less than cost. Yet a singular fact has developed during the last year or two, and that is that in New York and Boston markets the price of large-sized spruce dimensions has reached within a very few dollars per thousand feet of wholesale rates on ordered lots of Southern pine. This shows that dealers and builders will have spruce lumber even when its cost nearly approaches that of the Southern lumber. The days of extrene low prices for spruce have gone, never to return. The demand now fully equals the supply, and timber land owners and mill men are beginning to appreciate the situation and act accordingly.-Woodnorker.

## PACIFIC COAST LUMBER.

"Those forests of the Alleghanies, and of the Mississippi and of Canada," the San Francisco Commercial Herald tells us, "can only be looked upon as thinly scattered groves of saplings when compared with the great woods of the Pacific. The only other ones that can properly be at all compared with them are those of the Amazon Valley, or they that clothe the flanks of the mighty Himalayas. The slopes, especially those having a westerly trend, of the Sierra Nevadas, of the Coast range and of the Rocky Mountains, for thirty five degrees of latitude, or close on two thousand five hundred miles, and the country between the Coast range and the ocean, has been thickly covered with forests since the dawn of creation, so thickly, indeed, that some acres have yielded as much as two million feet board measure.
The exact area of this enormous belt of woodland may not be easily ascertained; it cannot, howerer, be placed at less than twentyfive iniles in width, which would give it an area of 62,500 square miles. It is very hard to fix an average production of an acre, but it cannot be given at less than 50,000 feet per acre. This for the whole area given would make $2,000,000,000,000$ feet. Reckoning this at $\$ 5$ per 1,000 feet in the log, it would be worth $\$ 10,000,000$, .

000 ; at $\$ 10,000,000,000$, when sawn at the mill it would be worth $\$ 20,000,000,000$ at port of destination ; such as San Francisco, it would sell for $\$ 30,000,000,000$. Manufactured it would be worth fully $\$ 70,000,000,000$, or nearly double the total value of all the property in the United States at the present day. The greatest part of all this belongs to the United States, being located either in Californis, Oregon, Washington or Alaska, though there is a great deal of it in Rritish Columbia.

The principal descriptions of lumber that go to make this up are the pine or red fir, the red wood, the cedar and the sugar pine. The pine or red fir is found west of the Cascade range, between fortyfour and fifty-two north latitude, eight degrees, or 560 miles, in length. All the country round the great basin of Puget Sound, except in a few clearings either for agriculture or made by the luntbermen, is covered with its stately growth. The red wood is king from thirty-seven to forty-two north latitude, and takes in 4,12 square miles. Great tracts are covered with trees 200 to 300 feot in height, and the red wood forest is one of the most majestic sights in the world. The cedar is found in between the red wood and the sea, from forty to forty-two degrees. The sugar pine is the most valuable timber found in the Sierras, and is present in almost inexhaustible quantity. The yellow pine of Alaska is found in extensive forests, stretching over a territory almost as large as the whole of the rest of the Pacific coast west of Nevada.'

## PIPE STAVES.

The demand for heavy pipe staves for the English market is almost entirely for what is known in the New Orleans trade as the double extra or red dot. This is a stave 60 inches long, $1 \frac{1}{4}$ inches thick on heart edge, and 5 to 6 inches wide, free of sap.

It may be mentioned here that there are various sizes of staves known as pipes. The first is Queen's pipe, 66 inches long; Nev Orleans pipe, 60 inches ; and New York pipe, 56 . When, some years since, pipe staves were alnost exclusively made in Canada and Michigan, the 66 inch stave was principally made, but after the trade got more sensible, and through want of large timber and nearness and convenience to the ocean, they got to making the 60 inch stave and the smaller one within reach of New York.

Very large timber is required to make these pipe staves. No tree under about 30 inches in diameter will do. If a small tree wald cut to get a stave $1 \frac{1}{2}$ to 2 inches thick on the heart edge, it woul make the back of the stave much thicker; the smaller the timber the thicker would be the back; and as to get a good stave it necessary to have both edges as near even in thickness as possible, it will be seen that large timber is absolutely necessary. $-N$. I. Lumber Trade Journal.

As an instance of the great benefit of a railway running through a section of country is to that country, we may mention the fac that taking the cities, towns, and villages through which the Can dian Pacific railway and its branches run, the values of propern for assessment purposes has increased to within twenty-five millio of the whole addition to the public $d$ bt in consequence of the con struction of the Canadian Pacific railway. Villages and towns w had no existence in 1881 have now an assessed value of $\$ 100,000$ to close upon $\$ 2,000,000$, while towns like Carleton Plac have increased $\$ 194,000$, and cities like Peterboro' nearly $\$ 1,000$; 000. - Montreal Gazette.

Certain kinds of lumber, notably cherry and black walnut. ${ }^{9}$ rapidly disappearing from the market. The great drought, affected the country from the gulf to the lakes last spring, caub havoc among walnut timber, but there has been no ruthless destru tion of it by consumers. The demand for walnut is increasing, ap must finally cause its entire disappearance. There is a fortune ${ }^{\text {Waln }}{ }^{t}$ some young men in the bottoms of the Missouri and Kaw. Wa the is probably the most easily cultivated of all our forest trees, and any bottoms of the Missouri and Kaw offer as great advantages as and country in the world for their cultivation. I know of walnut tredy a short distance up the Kaw, which are now from fifteen to twenve inches in diameter, and have sprung up within the last twenty-fy years, so you see that they grow nearly an inch in diameter er ber year. Red birch, bay wood, red wood, sycamore, and any numbere of other words, are now being used in imitation of walnut, and the the need be no cause for alarm if it finally entirely disappears from market. But as long as it is possible to get it, it will bring highest prices in the market. Within the last ten years the $\beta$ of walnut lumber has increased from $\$ 25$ to $\$ 125$ per 1,000 feet, of course it will continue to advance as walnut becomes gcarcer. Lumberman's Gazette.

## M1ining.

## THE CANADIAN MANUFACTURER

Send $\$ 2.00$ and receive it twice a month, postage paid, for one year
The mayor of Nanaimo, B.C., says that funds are urgently needed to alleviate distress caused by the recent fearful colliery disaster There are some thirly-nnne widows and 106 children wholly desti tute, boside numerous families whose support has failed.
The Albert Manufacturing Co., at Hillsboro, N.B., are gradually increasing their business, and making purchases of plaster properties in the vicinity of their works. The calcined plaster of this company has a good reputation and they are meeting with large sales.
Another diacovery of a valuable lead mine has, it is stated, been made in the township of Waltham, Pontiac county. The surround ing country is rugged and mountainous, and is reported to be rich in mineral wealth. Experts are engaged in making borings. Ottava Citizen.
Tre Brandon Surc eays: The first car load of Banff anthracite coal has reached here. It is really an excellent sample, and gives unbounded satisfaction. It will cause quite a revolution in the fue question of the North-West. The selling price is now $\mathbf{8 9 . 0 0}$, but there is no reason why it should not be sold at even less figures.
A aentleman down from the township of Waltham, county of Pontiac, says that a valuable lead mine has been discovered in that The niship, between Chapleau village and the mouth of Black River. The country in which the "find" has been made is very mountain${ }^{\text {Ous }}$, and is believed to be rich in mineral wealth. A capitalist from Pembroke has sent experts to travel the place and report.-Ottave Oitizen.
IT is very likely that the Menomince range will ship at least as much ore this season as the Gogebic rance. The Penn Company and the Briar Hill Company will each ship at least 300,000 tons, the inapin mine will ship over 200,000 tons and the output of the Ludington mine will be in the neighborhood of 100,000 tons. It seems quite easy for the other mines to ship 600,000 tons, making 1,500 , 0 tons in all, and it is not likely that the Gogebic shipments wil reach that figure.-Mining News.
Capt. Tobin predicted that within two years mines will have been the Med all the way from Iron River to Lake Gogebic, connecting Gogebic raninee and Gogebic ranges. In regard to the output of the Wha pic range this year, Capt. Tobin said: "If work at the mines cos pushed, and there were plenty of carriers, $2,000,000$ tons of ore everybe shipped. Carriers are somewhat scat of $1,500,000$ tons. I don't th is figuring on an aggregate shipment of $1,500,000$ tons. Ploren't think that the total shipment will exceed $1,500,000$ tons. Tuce Mining News.
The Kingston \& Pembroke Mining Company, recently organized, the 8,000 acres of iron mining lands, extending for sixty miles along abouthgston \& Pembroke Railroad. They are said to be taking out Clevelend tons of ore daily, which is being shipped to Chicago and to shownd. The ore is said to run about 60 per cent. in iron, and very show but the slightest trace of phosphurus, a fact which makes it tock valuable for the manufacture of Bessemer steel. The capita docelop the company is $\$ 5,000,000$, and the organizers propose to
Thi the mines as soon as possible.
tond duty is taken off anthracite coal going into Canada ; this will the Defore long to a vastly increased trade in this variety of fuel, to done uminion. When the duty was placed on anthracite it to use in it ander the belief and hope that it would force The coal saler by $N_{\text {ova }}$ Scotia the bituminous coals of Nova Scotia. The coal salear of Which cotia mine owners footed up $1,373,000$ There were 538,000 $\mathrm{T}_{\mathrm{ns}}$ ment United States took 60,000 tons. There , but none is set down to various places in the Province owl shippers did 900,000 $t_{0}{ }^{2} 8$ anthrer Ontario. The United States cominops trade with the Ganadian provinces, and the nest fiscal year will show even larger sures.-N. Y. Coal Trade Jonimal.
$A_{\text {Party }}$ of New York capitalists passed through Kingston, Ont, broke days ago bound on an excursion up the Kingston and Pemiron railroad, which runs through what is said to be the richest orpanizion in Canada. The object of the party in Canada was to anining a mining company with $\$ 5,000,000$ capital to develop at Kingstoion. It is understond that the company was organized

Seibert, president ; Daniel L. Gibbons, secretary ; Fred S. Flower, treasurer. It is probable that the company will erect furnaces at Kingston, and the belief prevails that the new Tupper tariff will be the means of inducing capitalists to build other iron works in this region other than those here alluded to.
So many reports have deen sent trom Nova Scotia regarding the unhappy condition of the coal miners that the Star has sent a staff correspondent to the mines to make investigations and ascertain whether the development of an iron industry in their neighborhood would relieve the distress among the workmen. The question of granting sufficient protection to the iron industry will, most probably, be seriously considered by the Government before the close of the session, and as the matter will affect the whole Dominion, the letters of our correspondent will be read with interest by the business community. Although our representative will pay special attention to the Nova Scotia mines, he will also review the whole question of the developinent of our iron resources from a Dominion standpoint.-Montreal Star.
Whisn the item of fertilizers was recently under discussion at Ottawa, several members of the Opposition exprensed the greatest sympathy for the condition of the farmer. Mr. Casey and others bewailed their fate, and shed tears over the fact that they were bowed down in grief over the weight of the duty. The whole matter stood out in the light of a huge farce when Mr. Hesson explained that not a single ton of artificial fertilizers had been imported into Ontaric, and consequently no duty had been paid by the farmer in this direction. He pointed out on the contrary that Canada exported $\$ 431,957$ worth of phosphates for fertilizing purposes. The average Grit sympathy for the farmer is a delusion and a snare. and invariably shows up badly when the crucible is applied. What the farmer may ever succeed in getting from the Grit politician could be put on the point of a cambric needle without crowding off any resident particles.
Ir is stated that immense capital is to be thrown into Northern Ontario to develop iron mines there and to establish blastfurnaces. It is said that Mr. Pearce, who controls tho old Coboury, Peterborough and Mamora road, is making arrangements to work the mines at Blairton, back of Cobourg. These mines were formerly operated in the interests of American blast furnaces, but the taking out of the ore was unprofitable, owing to the circumstance that the rail way communication was broken, and the ore had to be carried by tramway and water as well as by rail. Mr. Pearce now owns the Cobourg railway, and he proposes to build a branch from it to Norwood and thence to Blairton. It is not yet decided where the blast furnaces will betocated, but if charcoal furnaces are to be erected, they will be at the mines, and if coal is to be used they will be at Cobourg. The Blarton iron minesare in Peterborough County, bout three miles from Blairton station on the Canadian Prific, about thich station is 28 miles from Peterborough.
We are pleased to be able to report the recert discovery of a valuable deposit of gold in the region of Tonogaming. When studying the nature of the rock formation in which the silver mines of Messrs. Holditch \& Cockburn are located in the same region, we were convinced that additional discoveries of the precious metals would soon be made in the vicinity of Tomogaming, but we were not prepared to hear of a discovery such as that which has been reported this week. The newly-discovered mine is the property of Mr. P. A. Ferguson of Matcawa, and Mr. John Caverhill of Montreal. It is located on the shore of Lake Tomogaming, distant about 16 miles south on the Ottawa River, and enibraces 195 miles of land. A south on assay has been made of various samples of ore taken from the lodes uncovered, and an average of about 870 in gold per ton of lodes uas been obtained therefrom. We are informed that it is the rock has been obtained therefrom. Wo ming operations in the month of June next. There can no longer be any doubt that the district of Nipissing abounds in very rich mineral deposits, which await discovery and development by our enterprising and industrious people. -Nipissing Times.

Ter New York Times, in an article on the state of the finances at Washington, says that last year, up to May 20, the receipts of the Treasury were (in round numbers) $\$ 295,000,000$ while this year they are nearly $\$ 327,000,000$. Last year the expenditures were $\$ 214,000,000$; this year they are nearly $\$ 240,000,000$; but in spite of this increase of $\$ 26,000,000$ in expenditures, the excess of receipts is greater by about $\$ 6,000,000$. During the few weeks remaining of this fiscal year, ending June 30, the revenues will be carried up to $\$ 370,000,000$, and the expenditures (the amount of which is already determined) will not be more than $\$ 266,000,000$, leaving a net surplus of over $\$ 100,000,000$.

## $\mathfrak{M i s c e l l a n e o u s . ~}$

## THE CANADIAN MANUFACTURER．

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Hevry George＇s utterances about the appalling poverty of wage－ earners are weakened greatly by the fact that in the State of New York the savings banks held on Jan． 1 the sum of $\$ 482,486,730$ ， representing wage－earners＇deposits，against $\$ 457,050,250$ on the same day the previous year．

The publishers of Webster＇s Unabridged Dictionary have recently added to it a＂Pronouncing Gazetteer of the World，＂containing over 25,000 titles，briefly describing countries，cities，towns，and natural features of every part of the（ilobe．It covers a hundred pages．＂Webster＂is acknowledged authority wherever the Eng－ lish language is spoken，and is an absolutely essential text book in schools，families，and all other places where correet language is desired．

The fact of asbestos being an extremely bad conductor of heat and incombustible has been largely utilized by inventors and manu－ facturers already，and it is probable that its application will be much wider as the manipulation of the raw material becomes better un－ derstood．A manufacturer who has har considerable experience in connection with the business，has recently introduced an important improvement in the manufacture of sheets which seems likely to result in a stronger and more durable material without materially adding to the cost．The sheets，which may be flat，cylindrical，or of other form，are composed of superimposed slivers or fleeces of asbestos fibre．The asbestos is nut pulped，as in making paper or millboard，but is passed through a carding machine，and the fleece or sliver thereby formed is deposited in even layers upon an apron or table，or is coiled upon a rotating cylinder or mandrill，until a sufficient thickness is obtained．A little water or a sizing substance －preferably an incombustile substance such as a solution of silicate of soda－is uniformly applied to the asbestus at some convenient stage between its raw condition and its deposition in layers．No felting operation is employed，but a pressure regulated according to the density required is pplied to the bat or piled sheet by means of a roller，or in any other convenient way．For some purposes there may be mixed with the asbestos fibre，hair，wool，mineral wool，or other fibre；also finely－divided clay，chalk，infusorial earth， or the like．The bat when dried forms a flexible，elastic material resembling felt，and is of excellent non－conducting character，whilst it is capable of easy application or removal，and may easily be made waterproof by any of several well－known processes．The flat sheet may be applied to flat surfaces and can be bended and adapted to slightly curved or irregular surfaces．The material formed on a cylinder or mandril may be cut longitudinally to facilitate its appli－ cation to pipes or other cylindrical articles．The improved asbestus sheets or coverings may be used in combination with any other known kind of covering，either combustible or incombustible，ac－ cording to the requirements of each applicaticn，and they may be used in numerous cases in which a non－conducting and heat－resist－ ing material is desirable．The improved sheets make a good lining for carpets on account of their elastic character as well as con account of their heat－resisting property．


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