FAANCE AND IMSURAHCE REVIEW?
MONTREAL, FRIDAY, MARCH 20, 1908.


| $\begin{gathered} \text { Vol. } \left.58 . \text { Mo. }_{\text {NuF Bman. }}{ }^{22 .}\right\} \\ \hline \end{gathered}$ | MONTREAL, FRIDAY, MARCH 20, 1908. | $\left\{\begin{array}{c} \text { M. 8, FOLEE, } \\ \text { EDITro } \end{array}\right.$ |
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Capital（all paid up）क1 2，000，000，00 Reserved Fund $=8.4 .00 .000 .00$ Undivided Profits，$=35,698.00$

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The Union Bank of London．
The London and Westminster Bank． ef The Nationsl Provincial Bank of England
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Wew York－The Nationsl City Bank． Bonton－The Mational Bank of Commerce in N．Y．
Buffelo－The Marine Benk，Buffalo． Buif Franclaco－The First National Bank．
Montreal，31st December， 1902

## the bank of toronto．

 INOORPORATED 1858.HEAD OFFIOE：TORONTO，OANADA Paid－vp Capital

82，500，000 Reserve Twad

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Robert Reford，Esq．，Charies Stuart，Eaq．， John Waldie，John J．Long O．S．Hy ㄸan，M．P

DUNOAN COULSON，－General Maager．
Joseph Henderson，－Assiatant General Manager

## BRANCHES：


 Brockie，Lille，Loudun，Esat，Sarnis． $\begin{array}{ll}\text { Broekville，} & \text { Londun，Esist，Stavaer，} \\ \text { Oobourg．} & \text { Millbrook，Ont．，Sadbury Ont．}\end{array}$ $\begin{array}{ll}\text { Oobourg．} & \text { Makville，} \\ \text { Oolligwood，} & \text { Thornbury．Ont } \\ \text { Copper Clif，} & \text { Peterboro＇，} \\ \text { Wallacebug．}\end{array}$

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Bank of Rritish North America．
Incorporated by Royal Charter．
The Court of Directors hereby give notice that a Dividend of Thirty（3v）Shlliogs per share wilh be prid on the znd day of April nuxt to the Yro－
prietors of Shares registered in the Coionies prietors of Shares registered in the Coionies， tribation of 6 p．．，for the year ending 3ist Decem－ ber． 1402.
The Dividend will be paid at the rate nf exchange
current on the \％nd day of April，1908，to be fixed current an the \％n
by the Managers．
No transfare can be made between the 19th inst and the 2nd prox，as the books must be closed during that period．
By order of the Court．
（8igned．）
A．G．WALLIS
No． 5 Gracochurch Rtreet，
Brd Marcon， 1003 ．

## THE MOLSONS BANK．

Incorporsted by Act of Pariiament， 1885. Oapltal，Ell paid－ap， Reserve Fund，

18， 000,000

## BOARD OF DIREOTORS：

 W．M．Mammay，Mamuel Minley，J．Prikind Moloon，Oleghon H．Markind Molson， A．D．Durnford，Ohiel Inspector and Fuperint H．Lockwood W．W．W．© Chipms $n$ ，Asst．Inepectors BRANCHES：
Acton，Que ${ }_{2}$ Knowlton，Que．Reveletalis，E．O．
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Truit Oo．Booton－State National Bank；Kidder， Peabody \＆Oo．Philadelphinational Philadelphis；Naidder， Bank：Fourth Street National Bank．Portland．

 Honal Bank of Milwaikee．Minneapolis－Mra National Bank．Toledo－Second National Bank．
Butte，Montana－FInt National Bant Butte，Montans－First National Bank．Ean Fran－
cisco－Canadian Bank of Oommerce．Portiand Orezon－Canadian Bank of Commerce．Portiand
Weater Waah．－Boston National Bank，
Collections made in all
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 iley Buith，Fioo－Proilden Fon．David Mackeen．
Chisf Eixioutive Offios，Montrifal，Que， L．Passe，General Manager；W．W．Torrance
Superintendent of Branches；
W． Superintendent of Branche
Antigonieh， $\mathrm{N} . \mathrm{B}$ ．Pembroke，Ont．
Bathurst，
Bridgewniter， $\mathrm{B} . \mathrm{B}$
Chariottetow，N．E．P．E．I．
L／Alhousile，N．B．
Dorcheater，N．B．
Dorcheater， $1 . B . B$.
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Fradericton，M．B．
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Londonderry，N．B．
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Laneaburs．N．8．
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St．Johs＇s，Nid．
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Mombreal，Weat End．
Newonemite， 1 ．

Agendes in Havans，Oube；Kew York，N．Y．；＇snd OORRESPONDENTB：
Gredis Britain，Bank of Scotland；France， Oredit Lyonnaif ：Germeny Deutsche Bank and Japan Hong Kong \＆Shanzhai Banking Corporation：New York，Cbase National Bank： First National Bank；Blair \＆Co．；Boston．National Shawmat Bank；Chicago．M1ais Trust and 8sv－
ings Bank． Nevads National Rank．
ST．STEPHEN＇S BANK． gt．Stephen，N．B．
Capltal，
Reverve，
1000，
f．F．TRAND
 York－Bank of New York，N．B．A．Boeton－Globe John，N．B．－Banik of Montreal．of Montreal Draft：
Montreal
WESTERN BANX OP GINADA．

## DIVIDEND No． 41.

Notice is hereby given that a dividend of Three and One－half per cent．has been declared upon the
Paid－up Capital Stock of the Bank，being sit the rate of seven per cont．per annum，and that the same weroverso payable on and after
WEDNRESDAX，Ist day of APRTK，1903， at the Offices of the Bank．The Transfer Books
will be closed from the 15th to the 31 st of M reb． Notice is also given that the Twenty－firet Annual Meeting of tha sbarerolders of the Bank will be hald on WEDNFSDAY，the Rth Dav of APRIL next at the Hesd Omfle of the Bank，Oshawa， Ont，st the hour of Two o＇clock．p m．，for the may legally come before the Board．

By order of the Board，MoM
T．H．MoMILLAAN，
Oshawa，Feb，24th， 1908.
THE ONTARIO BANK．
 Rest，－DITRAOTTORS ： 425,000
Feorge P．R．Cockbrirn，Keq．，－President，
Donald Mankay Req．


The Ca

NOTIOE
Meeting of
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By order

Dated Febru

Trade

$\stackrel{\text { C．D．}}{\text { HON，}}$ John Dryasn
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Beeton， Beaton，
Burlington Draton，
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Gralph，
Great Britain New York－Th
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Reserve
F．X，Sq．Gral
Preerdent
M．J．A．Prem
A．GTROUX，
R．A．BERTRA
O．E．DORAIE
Braxores－Jo
Quebec，P，Q
Valleyffild．
Winnipeg，
of $\mathbb{N}$, America，
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Ladenburg，Th
Ickelheimer
tion，Nattonal 8 National Rank，
Philadelph 18 ，
Bsnk（Limitad
Industriel \＆
Société Génera
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Banque de Rote
Totberen of on depo

Traders Bank of Canada


NOTIOE is hereby given that a Special General Meeting of the Shareholders of, The Chanadian Bank of Commerce will be held in the Board Room of the Bank, corner of King and Jordan of April A.D. 1903, at the hour of twelve o'clock noon, to consider and if thought fit to pass a by-law for increasing the Capital Stock of the Bank by the sum of $\$ 2,000,000$.
By order of the Board of Directors.
B. E. WALKER,

General Manager.
Dated February $84 \mathrm{th}, 1908$.

$$
\begin{aligned}
& \text { C. D. Warren, Yeq, Dirsctork: Preident. } \\
& \text { HoN, J. R. STRATroN, Vice-Preesident }
\end{aligned}
$$



$\qquad$ Barnia,
8snlt Ste. Marie Schomberg,
Strstford,
St Stratford,
Strathroy, Strathroy,
St. Mary's,
St.


Great Britain-The Mational Bank of Scotisnd,
Now York-The American Exchange Nat. Bank. Woodstock. Iontreal-TheQuebec Bank.
BANQUE D'HOCHELAAA. Oapital Snbsoribed
Ospital Paid-up, Repital Pasd-up, - - 1,96\%,000
Reserve Fund,
 Hon. J. D. Rollant, J. A. Vailiancourt, Ereq.

 O.E. Dorais Head" omce, HOntreaí. Inspector
 $\begin{array}{ll}\text { Louisville, P.Q. St. Henry, Montreal } \\ \text { Quebec, P.Q. } & 1793 \text { St, Catherine is }\end{array}$ $\begin{array}{ll}\text { Sorel, P.Q. } & 1756 \\ \text { 8herbrooke, P.Q. } & { }^{2917} \text { Notre Dame } \\ \text { Valleyfald. P.Q. } & \text { Hochelaga. }\end{array}$ Vaileyifid, P.Q.Q. Hochelags.
Vankleek Hiv, Ont. Three Rivers, P.Q.
Winnipeg, Msi. Winnlpeg, Msi, of $\mathbb{N}$ Americs, Nas'1 City Bank, Importers \& Tra-
ders' National Bank, Mchts National Bank. MM, Ladenburg, Thalmann \& Co., MM, Heidelhach, Ckelhelmer \& Co.,MM. Kountze Brothers, New York tion, National Shawmut Bank, Roston, Philadelphis
National Bank. The Fourth Street National Bank National Bank, The Fourth Strpet National Bank,
Philadelphis, National Live Stock Bank, Minoles Bank (Limited), Credit Lyonnals de Parls. Credit Industriel \& Commercial, Comptoir National d'Escompte de Paris, London, Mng, Oredit Lyonnale,
Societé Générale, Orélit Induetriel de Commercial, Comptoir National d'Racompto de Paris, Paris, che B, k, Berlin, Germany, Bang Be Imp. Royale \& Banque de Rotierdam. Rotterdem, Holland Austris.


## The Ohartered Banka.

## La Banque Nationale. himad oftion, qumbio.


 Undiv

## Dremorons:

A. A A DDETMTE, Premdent. A. B, Drpuif, Vice-Fresilent.
 P. LAFRAMOM, Manager. N. LAAYORE, Inspector. Branohem:
Bt. Hysinthe, Que.,
 ${ }_{\text {Otantreal }}^{\text {Ot }}$ Otta we,
Bherbrooke,
 Chicoutimi, Qne do St. Casimir, Que


Scotante-London, Ring. - The National Bank of Wew Yofk-First National Bank. Boston, Mass. Tationsil Bank of Redemption:
Prompt sttention given to collections.
Imperial Bank of Canada. Oaptita Ruthorized
OApoltal (patd up).
Reat

DIREOTORS.

 HEAD OFYTOE,TORONTO:
Ei. D. R. Wurci, General Manager,

## Eseex, Fergus,

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| Ha | $\begin{array}{lll} & \text { Ottaws, } \\ \text { Ingersoll } & \text { Port Colborne, } & \text { Toronto } \\ \text { Welland } \\ \text { Ind }\end{array}$ Listowel, Rat Portage,

 Braw oriss DN K
Brandon, Man.
Calary, Grandary, Mlts. Cranbrook, B.O. Esdmonton, Alts. Ferguson, B.
Golden, B. C .
Kelson, B.C.
Portage La Prairie, Man
 Prince Albert, 8s.8k
 Rosthern. Sask,
Strathcons, Alta Btrathcons, Alta.
Vncouver, BoO. Victoris. B. O. Prince Albert, New York, Bank of Montreal, Bentan Thmited, hattan Co.. Bank of America. Sterling exchange bought and sold. Letters of
redit issued avallable in any part of the world.
UNION BANK OF CANADA Capital Authorized, $=\$ 3.000,000$ Capital, Paid-úp. - - \$2.250,000
$\qquad$
HEAD URFIUK Board of Directors: UKBE



$\qquad$
$\because$ $\qquad$ F. W. S. Crispo

Alexandits, Ont. Indiranchesi Alona, Man Innistall $N$ w. T. Quatippelle Arcols, N.W.T. Kemptville Ont,Quebec, Qne. Birtle, Man. Killarney, Man do st, Louis $8 t$
 Calgary, N.W.I. Macieod, N.W.T. Ruaell, MsiCarberry, Man. Manton, Man, Sakatchewan
Cardston. N.W.T. Medicioe Hat,

 Grystal City, M. Melita, Man, Sintsinta. Y, W.T.
Oypresa Rivar, M. Mineedosa, Man, Smith's. Fsile, Cypress Rivar, M. Minnedosa, Man, Smith's. Falie,
Deloraine, Man. Montreal, Que Sourls, Man. Deloraine, Man. Montreal, Que Souris, Man.
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Grenboro Man, Neepaws, Man, Wawanesa, Man. Gienboro Man, Neepawa, Man, Wawanesa, Man.
Gretns, Man. Norwood, Ont. Wisrton, Ont. Hamiota, Man. New Liskeard, O, Winchester, Ont. $\begin{array}{ll}\text { Hartney, Man. } & \text { Okotoks, N.W.T. Winipeg, Man. } \\ \text { Hastinge, Ont. } & \text { Oxbow, N. W. W. Whalley, w. }\end{array}$ Hastings, Ont. Oxbow, N.W.T. Wolseley, W.W.T.
HighRiver, N.W r.Pincher Orent, Yorkton, N W.T. Hollad, Man. Forelgn A.W.T.
London,
New Yor
Boet
Parr's Bank, Limitea Boen Nations Park Bank.童inneapolis. Nationai Bank of the Republic. Bt. Paul, - 8t. Paul National Bank, Great Falls, Mont.
Chicago, III,
BuIfalo, N. Y.
Detrolt, Mich.
n=1nth Min
Tonawande,

## BANK OF NOVA SCOTIA

 Jomt dirgotors.


hond omoe, - halitiven.s.
 D. WATERS, Superintendent of Branches.
 BRANCHRE,
In Nova Scotis-Amherat, Annapolis, Bridentown Dalifax, Kentvile. Liverpool, New Gleepow, Norkh Bydney, Oxford, Parraboro, Plicton. Pugwash, 8telLarton, Sydney Mines, Wentille, Tarmouth
In Ontario-Arnprior, Berlin
Toronto
In Quebec-Montreal and Paspeblac.
Ya Manitoha-Winnipeg,
In Frew Brunswick, Oampbellton, Chatham, Andrews, Bt. John, St. Stephen, Suseex, Wooditock
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In P.E. Isiand-Oharlottetown and Bummerwida
In Newfondhand-Harbor Grace and Bt. John'..


## THE DOMINION BANK.




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T ondon Ont. Orilis. Ont. Orilis, Ont.
Oshaws, Ont.
Gesforth, Ont seaforth, Ont
Selkirk. Man Stanstead. Que.
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And Whardge. Ont. Uxhridge. On
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Mmndar Strpet. Toronto.
Market Branch, "oronto
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## Commetcial Summang.

1 EF Merohants, Mamufacturers and other business men should bear in mind thut the "Journal of Oommerce" will not acoept advertieemente through any agente not specially in its ampley. Ite airoulation-axtending to all parte of the Dominion-renders it the best advertising medium in Oanada-aqual to all others combined, while ite rates do no include havey sommissions.
-Midland, Ont., ratepayers carried the by-law to purchase the electric light plant.
-The application to Parliament for the Grand Trunk Pacific Railway charter has been amended so as to include a road from Gravenhurst to Quebec.
-The Siangeli copper fields, which extend on each side of the Swedish-Norwegian frontier, have been sold to an American company. The price paid was $\$ 1,100,000$.
-Over 1,200 settlers-arrived at Winnipeg on the 12th instant by eastern trains. The larger portion of the arrivals ane from Ontario, and will take up land in the Province and the Territorics.
-Collingwood, Ont., addvices say that the widening of the deep-water channel will be continued under the contract entered into with the Government last year. This work, it is expected, will be completed by the end of July.
-The Government contract for improving Owen Sound harbor, Ont., requires a tdepth of 30 feet below zero mark from dock to dock, extending from the C. P. R. station to deep water, or 550 feet outside of the new piling, with a uniform width of 375 feet. This work is nearly half done, and when completed will be a harbor excelling any on the lakes.
-Absorption by the sugar combine of the entire plant of the CaliforniaHawalian Sugar Refining Company at Crockett, California, says a. San Francisco report, has caused quite a flurry in the sugar trade. The California-Hawailan Company has stopped taking orders, and notified its agents to stop 8 lling for the company's account. Orders thave been received by importers to d-liver ships' cargoes of raw sugar destined to the California-Hawaiian Company's wharves to the Spreckles plants.

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of Chatham the Messrs. Mail, and o position in lands in Glo paper mills there. It is making a ca on the Nepis that it is $s$ ernment wil lish the ind position is lumber land promised car

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-The Town of Midland, Ont., submitted a by-law to take over the electric light system to the property-owners, and it was carried by a vote of 186 for to 17 against. The sum voted is $\$ 20,000$, of which $\$ 9,600$ is for the purchase of the present company's plant, and the balance is for the extensive improvements and additions to the present system.

A cable from Christiania reports that it has been decided by the Storthing to establish a bank in order to provide cheap loans for workmen desiring to buy land for cultivation or wishing to improve small holdings in their possession. These loans will be given at $31 / 2$ and 4 per cent. Even townships and County Councils willing to provide workmen with small holdings may have loans on the same terms.
-The anual meeting of the West Indita Electric Company, Limited, was held at Montreal recently, when the directors submitted their annual report, and the same officers as last year were re-elected. The officers of the company are: Mr. F. E. Wanklyn, president; Mr. J. K. L. Ross, vice-president; Messrs. Porteous, J. R. Wilson, Fayette Brown, W. H. Chapman, and Jas. Hutchison, directors. The operation of the railway for the year shows a net surplus, after providing for interest on bonds and all other charges, of $\$ 29,265$, which amount has been added to the surplus of the previous year, and has been expended in additional rolling stock and other permanent improvements to the property.
-Owing to the rapid increase of population in the Northwest Territories and the large areas brought under cultivation, the question of transportation of grain to the markets of the world through Canadian channels is occupy-
ing attention at the present session, and a commission will be appointed to report on the whole subject. A short reference is made to the treaty for the delimitation of the Alaskan boundary. Attention is drawn to the readjust$m \circ n t$ of the representation of the several Provinces, in accordance with the B. N. A. act, as a result of the recent decennial census. Bills are promised for the creation of a railway commission, amendment of the patent laws, and the militia act in reference to Ohinese immigration, the reorganization of the Department of Marine and Fisherifs, and many others.
-We learn from Ottawa that the Imperial authorities have signified their approval of the Dominion Government's recommendation that the British mabers of the Alaska tribunal consist of Lord Alverston, the Chief Justice of England, and two Canadian Judges. Lord Alverston has expressed his willingness to serve on the tribunal, and his two colleagues from Canada will shortly be chosen. The British Government have also agreed to the nomination of Hon. Clifford Sifton as British agent. Mr. Sifton will devote himself for the $n \in x t$ two months, in conjunction with his other duties, to the preparation of Canada's case. Hon. Edward Blake and Mr. Christopher Robinson will be two of the Canadian counsel. They may have a distinguished associate in the person of the SolicitorGeneral of England.
-We learn from Toronto that at a recent confidential and private metting of the Canadian Manufacturers' Association, the time was spent in disenssion of individual suggestions for changes in the tariff. About 300 members were present, and although no official official statement was given out it is understood that a resolution was passed favoring a general increase in the tariff. There was but one dissenting volce. A granite dealer, from New Brunswick, opposed the resolution. It is stated that an increase in the tariff would thelp his business, but that he is a


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#### Abstract

theoretic free trader. A deputation will shortly proceed to Ottawa to lay the resolutions before the Government. Members are emphatic in their declarations in the approval of preferential tariff, but they wish the general rates advanced in order to secure more protection against the British industries,which profit by it. -St. John, N.B., advices state that R. A. Lawlor, K.C. of Chatham, was heard by the Government on behalf of the Messrs. Harmsworth, proprietors of the London Daily Mail, and other British publications. He submitted a proposition in reference to the acquiring of Crown timb r lands in Gloucester county for the supply of the pulp and lands in Gloucester county for the supply of the pulp and paper mills which Messrs. Harmsworth propose there. It is understood that Messrs. Harmsworth, after making a careful test of the water power at Grand Falls, on the Nepisiguit, the proposed location, are of the opinion that it is sufficient for their purposes, and if the Government will accede to their propositions, they will estab- lish the industry there. One of the features of the lish the industry there. One of the features of the proposition is that they be granted long term leases of the lumber lands such as exist in Quebec. The Government promised careful consideration, and the members seem to


think that if the propositions of the Harmsworths, in whole or in part, are granted, legislation will be necessary.
-The following from the opening speech at the present session at Ottawa explains itself:-There have been some sneers over the Government's plans for an improved At lantic steamship service on the part of those who do not comprehend the matter. To provide a weekly 21 -knot steamer service between Canada and Great Britain would be a very costly matter, involving an expenditure far in excess of what our peopl are prepared to sanction. But measures are being taken to secure two vessels of this speed, so that if the scheme goss through we shall have a fortnightly service equal to that given by steamships of the Campania class running out of New York. In addition there will be a fortnightly service by steamships of a minimum speed of sixteen knots. To some people sixteen knots may seem rather slow, but it is superior to any passenger or freight vessels which enter Canadian ports at present. The Tunisian and Bavarian are perthaps two of the fastest vessels of the Allan fleet, but their steaming capacity does not excesd thirteen and a half or fourtern knots, according to people who should know. The adop

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tionof the Government's policy, therefore, means alternately a service with vtssels of the Campania class, and a service from two to two and a half, knots ahead of anything we have at present.
-The Government, as announced in the speech from the throne, have decided to appoint a commission to inquire into and report upon the transportation question and the terminal facilities in Canada. = It will consist, says an Ottawa report, so far as can be learned, of three members. One will be a railway expert, and the steamship and mercantile int rests also will each thave a representative. It is understood that Sir William Vah Horne is the railway expert refrred to, and that he will be Chairman of the commission. The other two members will be gentlemen in whose expertence, knowledge and wisdom the public will have every confidence. Inquiry will be made as to the best means of providing speedy transportation to the seaboard, and of promptly handling our products, especially grain, when they each the Canadian terminals. The commission will doubtless report as to the improvements under way at Port Colborne, which is to be a point of transhipment for grain brought down on the giants which navigate the upper lakes, and they will probably also give some attention to the question of whether the depth of the canals is sufficient to meet the growing demands of the grain export trade. The subject is one of paramount importance, and no time will be lost in appointing the commission and getting it under way.
-After much waiting, owing to accidents in preparing the elevated terminals, and much comment, favorable and otherwise, wireless telegraph messages were exchangd between Toronto and Hamilton, some days ago, through the medium of the de Forest wireless telegraph system. A public demonstration of the system was given from the experimental station at Toronto, and congratulatory messages were exchanged between the mayors of Toronto and Hamilton. In the loft of the boathouse receiving and transmitting machines had been installed, which were to send and receive the electric current, which was caught by the wires from the tall mast. Some interest was taken in the experiment by leading business and scientific men. Among those who witnessed the novelty were Mr. Abraham White, President of the New York Wireless Telegraph Company;

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Francis X. Butler of New York, solicitor for Mr. White J. F. Ellis, President of the Board of Trade; Mr. Frank Morley, secretary of the Board of Trade; Mayor Urquhart, Senator Kerr; K. J. Dunstan, manager of the Bell Telephone Co.; A. W. Barber, manager of the Canadian Pacific Telegraph Company, with F. C. Robertson, chief operator, and W. C. Marshall, inspector for the company; Professor Ellis of the School of Practical Scienc:; Prof. Rosebrugh, Dr. Galbraith, Dr, A. Garrett, Dr. Orr, D. D. Mann, A. S. Irving, Dr. Chant, and a number of others. The transmission creates a noise anything but inviting. Flashes of fire shot out from the machine, and most of those present at the experiments were glad to hold their hands to their ears in a futile endeavor to shut out the uncomfortable noise. However, the messages were sent and received.
-The U. S. Department of Agriculture announces a new code of regulations for the supprepsion and extirpation of contagious and infectious diseases among domestic animals in the United States. The regulations revoke those

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School Boots:Girls'.

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GALVANIZED SHEETS, BAR IRON. AERIAL WIRE ROPEWAYS.

Steel Rails of all Seetions. Fish Plates. Bolts. Spikes. Points and Crossings. Steel Sleepers. Wagons for all purposes. Wire Ropes. Pit
Headings. Screens. Mining Steel Pulsating Pumps.

of April 15, 1887. The new regulations require all persons owning, managing or transporting animals, to exercise reasonable diligence to ascertain that the animals are not affected with any contagious or infectious disease, not exposed by contact with other animals so affected or by being in pens or vehicles contaminated by diseased animals before such persons offer them for transportation, or introduce them into public stock yards or on public highways or lines of inter-state traffic. The law deals with the importation of Canadian and British animals, for St. Louis fair purposes. The importation of Canadian animals must be accompanied by a certificate of a Canadian official veterinarian, stating that such animals are free from any contagious and infectious disease, and have not been exposed to any for three months preceding the date of shipment. The railroad agent at point of origin must certify that the cars carrying them were properly cleaned and disinfected. The Canadian animals cannot be unloaded until they reach the exposition grounds. Secretary Wilson has issued special orders providing for the importation of animals for exhibition at the Louisiana Purchase Exposition at St. Louis. The quarantine period for cattle imported for the exposition, from Great Britain; Ireland, and the Channel Island, is fixed at sixty days, counting from the date of shipment. The quarantine period for sheep, other ruminants, and swine, shipped from these countries will be fifteen days.
-Ontario will not be lacking for electric power, if all the incorporated companies proceed to develop. The latest to seek a Federal charter is the Erie Ontario Power Company. The watercourse and railway will run from at or near the mouth of the Grand River northerly to a suitable

Sedgley, Tyler \& Co., Wholesale and Export Manufacturers,
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Popular Prices.
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point on Lake Ontario.-A notice re the Grand Trunk Pa cific Railway Company is signed by Mr. John Bell, and states that the applicants for an act incorporating the Grand Trunk Pacific Railway Company, in addition to the powers already asked for, intend to ask for power to construct and operate as a portion of that railway a line of rallway from Quebec to Gravenhurst or North Bay.-The Canadian Northern Railway Company will ask for power to amalgamate with the Western Extension Railway Company, or to purchase its undertakings, lines, etc.-The Royal Trust Company, which was incorporated by the Province of Quebec, is asking for a Federal charter.-The Quebec Bridge Company is applying for an omnibus act. One of the objects sought is to build from the northern terminus of its bridge under construction in Ste. Foye to the City of Quebec, and from the southern terminus to a point of connection with the Grand Trunk or Intercolonial. -The Quebec Terminal \& Railway Company will apply for powers of amalgamation with the Qusbee Bridge Com-pany.-Letters patent have been issued incorporating the Montreal \& Western Oil Lands, with a total capital stock of $\$ 20,000$. Alfred T. Gurd of Petrolea is one of the -incor-porators.-The capital stock of the Western Elevator Company has been increased from $\$ 100,000$ to $\$ 300,000$.-A mortgage deed, dated July 1, 1903, bstween the Ailgoma Central \& Hudson Bay Railway Company and the Central Trust Company of New York, securing an issue of bonds made by the former with respect to its lines of railway and undertaking, has be $n$ deposited in the office of the Secretary of State.

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SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

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-Fire Insurance Decisions.-By the terms of a fire insur ance policy it was stipulated that the company should not be liable for any loss occurring while any part of the premiums was due and unpail. The policy was a reneway of a similar policy, upon which the insured had been allowed to run over a few days in his payments, and at the time of the issuance of the new policy the company's agent assured the insured that the company would see that the policy was kept alive if the premium was not paid for a few days after due. The not given for the first installment was help up a few days in pursuance of such agreement. In reliance on the promise, the insured did not leave his sick wife to pay a later premium when due, and two days later the thouse was burned. Held, that the company was estopped from insisting on the forfeiture. Continental Ins. Co. of New York vs. Browning.-The condition of a policy that the interest of insured be that of an unconditional and sole owner, and that he own the land in fee simple, is waived, the insurer's agent being informed that insured's interest is but that of a vendee in possession, though insured makes a false representation as to who holds the title; this being only a question of misrepresentation of a material fact. Brooks vs. Erie Fire Ins. Co.-Where, in an action on a fire policy, the testimony showed that defendant had carried a policy on the property for several years, and there was no evidence that the insured made any re-
presentations to induce the issuance of the policy, the court properly refuseld to submit to the jury the defense that the policy was issued on the repr sentations of the husband of the insured that he was the owner of the property, and that the policy was taken out in his name, when in fact it was taken out in the wif.'s name, who was the owner thereof. Scottish Union \& Nat. Ins. Co. vs. Strain.Where a fire policy provided thiat it should be void if there were other insurance on the property, unless otherwise provided by agreement indosed on the policy, but the insurer knew of other insurance when the policy was issued, in an action on the policy the insurer cannot escape liability because its knowledge was not evidenced by a written endorsement or other written waiver. Stage vs. Home Ins. Co. of City of New York.
-The Department of Trade and Commerce has received a communication from Mr. J. G. Jardine, Canadian Trade Commissioner for South Africa, inclosing a letter from Mr. G. N. Carter, an importer of food products, with several years' standing in Cape Town. Mr. Carter gives details concerning the frozen poultry best suited to the trade in South Africa, and the manner in which it should be put up. The weight should not be less than two and three-fourths pounds nor more than three and a half pounds, as the duty is $2 d$ per pound, and the poultry should be packed in

## Marion \& Co's "Folding Imperial" Cameras

No. 20 Folding Imperial.

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No. 21 Folding Imperial.
As above No. 20, but for 7 by 5 or $3 / 8$-plates. Extra Plate-Holders, 7 by 5 or $1 / 2$-plates

It is covered leather, R.R. Lens, F8 with Iris diaphragms, time and instantaneous Shatter, reversible View Finder, Cloth Bellows, rising front, focussing scale and focussing soreen, rack and pinion extension swing back and front cross movement of great extent for the front carrying lens, and automatic triple extension of bellows, 17 inches. This allows of lenses of every variety of fool being used, including telephoto work of low magnifioations. We know of no such complete equlpment at the prioe, enabling as it does the user to undertake any and every class of work including one double plate-holder, pnenmatio release, and tripod bushes, complete in stiff oloth oarrying case.

Price complete as described above, 5 by 4 plate, £6 $10 \quad 0$
Extra Plate-Holders, 5 by 4, eaoh................... 29 $\begin{array}{llrl}\text { al.... } & \text { £ } & 10 & 0 \\ 5\end{array}$ Illustrated Oatalogue, 300 pages, post free, 1/- Bookleta Free Manufacturers of Photo graphio Plates, Papers, Mounts, Apparatus and Materials of Unsurpassed Excellenoe.
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22, 23 Soho Sq., LOND0N, W., England.

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 If the price. w ty, probably mainder duck pitals, and London. Thi and, although Jardine state River Colony than in Cape Johannesburg adian export and fowls, to of steamers. that 'he had' a manager of $t$ reference to tunity of ten baggage vans, windows, sash ling, etc. It al ny in Londonof every


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## Sellers' Cream Blacking $\begin{gathered}\text { Entirely Supersedes all kinds of } \\ \text { Paste snd Liquid Blacking. }\end{gathered}$



This new Preparation combines the essential properties of Boot Cream and Blacking, and may be osed for every description of Black Leather Boots and Shoes-including Box Calf, Glace Kid, Patent Leather, \&o., with great advantage.

It is entirely free from acid, and all other injurious properties-therefore does not perish the leather or destroy the stitches of the Boots like ordinary Blacking.

It dries quiekly-produces a brilliant jet black-does not clog or crack in use-renders the leather soft and elastio-is not affected by rain or damp-does not rub off or soil the dress-and is more cleanly, convenient, and economical than any other kind of Blacking.

It saves an immense amount of time and labour, as Boots and Shoes dressed with this Cream Blacking retain their polish for several days, and only need occasionally rabbing with a soft dry cloth to restore their original brightness and freshness.

By using this Dressing ordinary Calf Leather Boots become nearly as bright and smooth as Patent Leather in a short time.
It is invaluable to Lrdies and Travellers, as it is cleanly and easily applied-instantly produces a brilliant shine-and is vailable for all kinds of Black Leather

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TO OBTAIN TEE BEST RESULTS FOLLOW THE SIMPLE DIREOTIONS ON EACH TIN.
In decorated Air Tight Tina specially suitable for Export: GOOD PUSHING AGENTS WANTED. Fall Export Price List and Samples if desired on application. Those goods aresuperior to those made in America; and under the New Canadian Tarift INVENTORS AND SOLE MAKERS :
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strong wire-bound cases, containing from 20 to 25 birds If the price was right, Mr. Carter could take a large quantity, probably 4,000 per month, 20 per cent. fowls and the re mainder ducks. Mr. Carter is contractor for military hospitals, and receives regular fortnightly shipments from London. This is very superior poultry, excellently put up and, although from London, it originates in Russia. Mr Jardine states that in the Transvaal, Natal and Orange River Colony there is a much larger demand for poultry than in Cape Colony. The J. W. Taylor Co., Limited, of Johannesburg and Natal, would be glad to hear from Canadian exporters, with a view to hapdling turkeys, geese and fowls, to be sent monthly in the Canadian direct line of steamers. Mr. Jardine also forwards a letter stating that 'he had an interview with Mr. T. S. McEwen, general manager of the Government Railways, Cape Town, with reference to affording Canadian manufacturers an opportunity of tendering for locomotives, passenger coaches, baggage vans, freight trucks, hardwood sleepers, doors, windows, sashes, deals, ceiling and flooring boards, scantling, etc. It appears that the Agent-General for Cape Colony in London transacts all business of this kind for the

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$198,200,202 \mathrm{~s}$,
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LONDON, E. G., EMG.
railways, and he is apparently very willing to place orders with Canadian exporters, other things being equal. Mr. Jardine suggests that the Agent-General be asked to furnish Lord Strathcona with forms of tender and other things, which mig't t be useful in future, when tenders are being
invited. invited.
-The winding up of the Palmerston, Ont., Pork-packing Company has been asked for by the Campbell-Shearer Company of London, England, the petition having been filed at Osgoode Hall recently. The applicants are creditors to the extent of $\$ 20,000$, and the only other large creditor is the Bank of Hamilton, which has a claim for $\$ 33,000$. In their application the petitioners state that they are not aware of the facts relating to the subscriptions and payments on the stock, and they desire that these should be in-

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Contractors to the Indian Government, London County Council, H.M. War Office, Corporation of City of London, \&c., \&c. Telephone No. 899, Hop. Telegraphic Address : "SKUDDER, London.'

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For the Prevention of Freezing in Cold Water Pipes our Compound has no equal.
98 Tooley Street, $\overline{-\quad-\quad \text { And at souta bermondshy. }}$ LONDON, S.E., Eng.
of a doctor, given eighteen months after he attended H., that he did not remember whether H. told him that he had received an accidental injury, does not, as matter of law, preclue the court and jury from inferring from all the facts in the case that he had received an accidental injury. Travellers' Ins. Co. vs Hunter.-Where an objection is made to an answer in a deposition seeking to show an accident injury to deceased, on the ground that it disclosed that all the testimony of the witness is predicted on declarations made to thim by deceased long after the injury, there is no error in admitting that part of the answer where the witness testifies to the physical condition of deceased, based exclsively on witness' personal observations. Traveller' Ins. Co. vs. Hunter.
-Vancouver advices report an immense area of coall lands having been discovered on the Flat Head River, in the south-east portion of East Kootenay, in the same coal belt as the Crow's Nest Pass coal. It is said to be identical with Crow's Nest coal, having the same coking qualities, and there are abundant evidences of the presence of petroleum, the crude oil in some places oozing out of the ground. It is a mountainous country, and the coal areas were thus. hidden from view until discovered by a Spokane prospector just before snow fell. This prospector kept the mat-
ter very quiet, but got his friends and his friends' frienuls.
power of attorney, and staked out the entire coal area, including 220 square miles. There appears in the British Columbia Gazette to-day 440 names of locators and their agents and the advertisements of 220 applicants for coal prospectors' licenses. The first indication the Provincial Government or general public had of the big discovery was when the Government was paid $\$ 11,000$ in a lump sum for these 220 coal prospectors' licenses. This week the 220 square mile claims were staked in the deep snow, all along the length of the Flat Head River. The claims are sixteen miles from the Crow's Nest Railway, and thirty miles from Morrissey, B.C. As the names of the locators are unknown on the Canadian Pacific coast, it is believed that they are chiefly Americans from Spokane, Wash., who have thus acquired by their shrewdness and enterprise what is reported to be as extensive a coal area as the 'Crow's Nest Pass coalfield. The Flat Head country is well
timbered, and there is an abundance of water available.
-Life Pointers from the Press.-If you have no life insurance kindly read these little hints.-"If you are going on a journey be at the station when the train comes along." You are on life's journey, and the life insurance train is "coming along" all the time. Be at the station and get on the train.-1A. New Jersey judge says: "A nan ought to be able to live on his salary, to support his family in
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the style and manner in which they should be supported, to carry a reasonable life insurance and to save something.' We concur.- Your last day lies hidden. Have your insurance policies-and have them where they can be found when your last day comes to light.-"The thought of a possible helpless old age gives all of us moments of anxiety." An endowm nt policy will provide against it and its ills.-Among your "New Rear resolutions" should have been one to insure your life at your earliest opportunity. Did you thus resolve? And have you kept your risolution? It is not yet too late.- "Old age has its sunrise" to those who have a maturing endowment policy pald up to date.Do you not consider life insurance a duty? You should.

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"A duty is no soontr divided than from that very moment it becomes binding upon us."-The New York News-Letter says: "You are president of the greatest human organiza-tion-the family-and a life policy should be vice-presi-dent."-The difference between coal and life insurance: One is scarce, due to conspiring greed; the other is plentiful, due to conspiring goodness. The price is always the same, and there are no strikes.-Let nothing prevent you from insuring your life at once.
-The projected organization of a great transportation union in connection with the trade of Cuba, says a Havana letter, will shortly be taking form. The idea of consolidating and apply ing electric motive power to all railway and tram lines in conformity with the idea adopted by Sir William Van Horne in constructing his new railway which opens up the eastern districts of the island. A combination will be effected by and between the Southern Railway of the United States and the new Cuban Transportation Syndicate for a quick connection by fast steamers, between the Floridan port of Miami and Havana or Matanzas, making the trips from bar to bar in four hours. Canadian, New York and Washington mails for the West Indies, Venezuela, Jamaica and the Central and South American States, especially those pordering on the Caribbean Sea, will come south through Florida, be whirled through Cuba over the Van Hoorne railways, and despatched by fast liners sailing from Cienfuegas, Santiago or Guantalanamo to

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# Groves \& Whitnall, LId, BREWERS \& BOTTLERS, 

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their destination. It is also said to be the purpose to have the New York and Panama traffic take in the Island of Cuba, either way, as an intermediate point-in event of the construction of the canal projected to pierce the isthmus; and in this connection, an old scheme to cut a canal through Cuba, from Havana to some point on the South coast, has been revived.
-The Ontario Government was waited upon recently by a deputation who came to urge the claims of the TransCanada Railway. It was introduced by T. G. Blackstock, and consisted of J. G. Scott, acting secretary of the TransCanada Railway Company; C. E. Talbot, M.P. for Bellechasse; Hon. Charles Langelier, Sheriff of Quebec; Lorenz Evans, of the lumber firm of Dobell, Beckett \& Co.; Lieut Col. B. A. Scott, of Roberval, Lake St. John; Lieut.-Col. Ray, of Price Bros. \& Co., lumbermen, Quebec. It was explained that what was wanted was a grant of 20,000 acres per mile in alternate blocks on both sides of the railway,

OREs: Po, lar, Limehonse, and Millwall.
Tblagemass: "Locklancoe, London," or "Sonjon, Lon"on" Codss: A B C, 4th Edition, A 1, and private. Locke, Lancaster

## and W. W. \& R. Johnson \& Sons, Ltd,.,

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Buyers of Argentiferous \& Auriferous Lead Bullion. Brand for Tee Lead, White Lead, \&o.
which was about 300 miles long, so that the total grant would amount to $6,000,000$ acres. The Premier said the Government could not say what they would do for them at the present. He supposed they would be ready to take the land on condition of settlement, as he did not think they could dispose of any land except on that condition. Mr. Scott said they would agree to this, and would also be willing to carry settlers free of charge.
-The fruit-growers and shippers in the Annapolis valley are endeavoring to get the C. P. R. to have a boat call at Dibgy for their fruit next autumn. Apple shipments have hitherto gone via Halifax.
-Representatives of the Tuckett Company of Hamilton, which proposes to establish a cigar factory at London, are reported to be in the latter city arranging for the purc*ase of a factory.
-Grand Trunk Railway System, earnings 1st to 7th March, 1903, $\$ 654,582 ; 1902, \$ 507,014$; increase, $\$ 147,568$.
-The by-law to spend $\$ 10,000$ for a Town Hall at Cobourg, Ont., was $d \in f e a t e d$.

Telegrams:-Goodwin, Ironfounder, Leicester. Code:-5th Edition, A.B.C.


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## THE CANADIAN

Journal of $\mathfrak{G}$ ommerce.

Montreal, Friday, March $20 \mathrm{th}, 1903$.

IRREGULARITIES IN PUBLIC COMPANY ACCOUNTS.

For some time past there have been published the annual statements of a number of loan and insurance companies, also of several banks.

The accounts of the latter institutions are almost all identical in form being transcripts with slight variations of the schedule of the monthly returns which is imposed upon them as obligatory by the bank Act.
It would be a great improvement on the present loose system, or rather want of system, were the loan and savings companies, and the fire and

## THE MANCHESTER FIREAS8URANCE

# Esatmblished 188 . 

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0APIAL, $\$ 10,000,000$ MANCHEBTER,' BNG. Ganadian Branch Hesd Omice, TORONTO. T. D. Ruoh nadbox, Absigtant-Manager.
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Only men of good charactar, posseesing energy and bubiness ablity will be considered for this vacancy.
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life insurance companies compelled to issue their annual statements according to a form prescribed by law. This not being the case, the statements of these classes of companies vary according to the ideas of their managers and bookkeepers as to the most effective way of presenting the figures for the purpose of making a good impression upon their readers, who, in the vast majority of instances, is quite unable to detect any irregularity, or cooking in or of such statements, and, if they have been so presented as to be obscure, very few indeed are able to detect by what means the obscurity has been caused.

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## Mutual Reserve Life Insurance Co., frederick a. burnham, president.

EIGHTY-ONE THOUSAND POLICY-HOLDERS.
Total Assets, $812,264,838.21$.
THE TWENTIETH ANNUAL STATEMENT Shows that the 1800 Businom Brought
An Increase in Assets. An Increase in Income An Increase in Surplus ..AND.,

## An Increase in Ingurance in Force.

Net surplus, $\quad-\quad \$ 1,187,617.68$.
Total Death Claims Paid since Organization, over FURTY-EIGHT MILLION DOLLARS.


## Union Assurance Society OF LONDON.

(Imbtituted in the reign of Quegn Axne, A.D. 1714.)
Oapitml and Accumulated Funda exonet. (16,900,00e.00. O IE OF THE OLDEST AND STRONGEST PIRE OFPICES. MONTREAK.
T. L. MORRISEY, Manager.

A striking illustration of the variation in presenting statements is shown by the Trust and Loan Company putting "Loans on Dèbentures" amongst its "Liabilities," while other companies of the same class, have "Loans orr Debentures" amongst their "Assets." Now, manifestly if a company has lent money on the security of debentures, such lent money cannot be a "liability" of that company, the liability in such a case is borne by the borrower not the lender, as the statement of that old and highly reputable company shows.
How is such a glaring irregularity to be explained? The company has not lent money on debentures, as its statement affirms, but has issued the debentures themselves and the liability set forth in its statement is not for "Loans on Debentures," but for what engagements it is committed to by those debentures.
After such a glaring irregurlarity as above, we cannot be surprised at finding the other parts of its statement in a very "mixed" condition, which is made all the more confused by part of the statement being in English and part in Canadian currency, and is still further muddled by notes of supposed explanation which make the "con fusion worse confounded."
Why cannot a company operating in Canada state its Canadian accounts in Cànadian currency? Very few of its customers can read, or understand, figures in pounds, shillings and pence, especially when they are ${ }^{80}$ "mixed" as to be a puzzle even to an expert accountant.

A fire insurance company issued its statement for 1902 without any reference whatever to that vitally important
item a reserve for re-insurance of unexpired risks. It quietly showed all the premiums for risks months ahead of their maturity, without making any provision for the contingencies they involve. Yet business resulting in an actual deficit, in an impairment of capital, is reported to have been "satisfactory," s.nd profits were distributed that had never been earned.

Another company admits the receipt of money for calls on its stock, but overlooked the fact that its stock is a liability, indeed there is no mention of its stock capital in its annual statement.
Several companies deduct the amount paid for re-insurances from their gross premiums so as to show very properly what the net premiums were. Others report the gross premiums in such a way as to appear as though the amount were net increase, and put the payments for re-insurances in such a manner as for them to appear as having no bearing upon the income.
It may be urged that these irregularities will be eliminated from statements when they are published in the Report of the Superintendent of Insurance, and that those in any of the loan companies will disappear, or be made intelligible in the Report of the Registrar of Ontario, but very few persons ever see those official reports, whereas the public at large sees the statements that are so irregular and so varied in form. and so misleading.

It is only fair to say that the statements of the leading mórtgage and loan companies are free from the ambiguities and confusion above referred to, and those of the substantial, long-established insurance companies are not onen to any adverse criticism in respect to the form in which they are presented.

## PRACTICAL EDUCATION.

A prosperous Western Ontario man once conversing with a new-found acquaintance on the train between Hamilton and Toronto-the latter, though a Yorkshireman, as inquisitive as any New Englander-drifted into bits of biography concerning local men who had risen to afflu-ence.-"And what, Mr. G., was your own start in life?What did you have to begin with?"-"Poverty, sir, poverty," was the reply. The Canadian's early education reached very little beyond the "Three R.'s," but, like many youths in a new world, his chief incentive was, as he described it-"I had to."

At a time when methods of education and the ways and means for attaining the kind that is most useful to the individual as well as to the country at large, are attracting more attention than ever before, it is well to consider the results of the present time-honoured system for which we so generously tax ourselves year after year. Its practical character-or rather its want of practica-bility-was illustrated not many years ago in a Western Canadian town, where a youth who had swept the prizes in the local grammar-school was seeking for some employment where his studies should come into use. After weeks of fruitless endeavour there and in a manufacturing centre not far off, he had to confess that much of his learning had been acquired in vain. He had to begin his education anew, and being driven at length to a very humble position with a master mechanic, worked his way
upward until he became one of the most prosperous manufacturers in the Province. There are scores of similar examples.
It is not popular to decry the education derived at our public schools; our ill-paid professors and teachers do their best, yet few men will claim that much of what they learned at school or college, and prided themselves on in monthly reports, and at examinations, fitted them for little else than school-teaching in their turn. We take no heed of our professional men here. It is also not palatable to suggest that by a judicious pruning of the course of studies taught in our schools, the senseless division of our school-funds should eventually be relegated to the dead past when our grandfathers had to get Johnson's Dictionary by rote from A to Z. Fortunately, very few of them accomplished it-as few probably as acquire a thorough knowledge of History from the text books of the day. Many books which boys and girls are obliged to get by rote even yet, had better be left to hours of entertainment or recreation in adult age. Indeed, the severe labour of committing such works as Macaulay's "Lays," the "Lay of the Last Minstrel," or other such works by rote is apt to engender a lasting dislike to them in after years. The result, when the memorizing tasks are at all mastered, say, by a poor ten per cent. in a public school, is to cultivate rather a taste for literature in the minds of the young man or woman who must set to work to earn a living-to make his or her way in the world-as soon as their schooldays are over. Surely it were to be desired that the subjects taught in our schools-the home-work at least-should be chosen from incidents in the lives of selfmade men of the past, many of which would afford as useful and entertaining lessons as that earliest of our best and purest works of fiction, the "Vicar of Wakefield." Some of our practical public men who have seen the deficiencies pointed out have been stirring up the minds of our own people on the subject of late. All honour and success to them. It is perhaps to be regretted that those on whom devolve the duties of compiling our school books should not have invited the co-operation of some of our prosperous manufacturers, men who know from experience what makes for success in life in a new country such as ours, men of whom it is not, perhaps, too much to say that the education they gave themselves has been in importance away and beyond that which they received from others. Let any of our readers look around upon those who are the leading manufacturers, merchants, bank-directors and pillars of churches among us to-day, and in almost every instance it may be discovered that their early start in life had very little advantage over that of the Yorkshireman's interlocutor at the beginning of this article.
Extracts from Smiles" "Self Help," Whipple's "Secret of Success," Matthews' "Getting on in the World," the lives of George and Robert Stephenson, James Watt, and others, might with advantage be sandwiched among the lighter pabulum which now forms too large a proportion of our school literature. And we need not go far from home for examples; they may be found among our railway presidents and managers, our steamship men, our bankers, our merchants and manufacturing princes, our great contractors and engineers. The lives of our influential public men at home and abroad; of our railway magnates and multi-millionaires, one of whom began as a conduetor (guard) and taught himself Latin;-the paper
manufacturer (with his $\$ 50,000$ a year) who began as a train newsboy; the business man who directs banks and other great institutions and began as a telegraph operator; the manager of the great insurance company who began literally at the foot of the ladder, and so on, these all afford more useful matter for the compilers of our school-books than do "Bingen on the Rhine," "Maud Muller," or "Henry of Navarre," however impressive these may be when recited dramatically by a school-boy or -girl on examination days.
In these days when writers are ready to prepare a man's biography before the good old customary time of life, there need be no scarcity of material, no dearth of examples to stir the youthful mind to go and do likewise, to feel that in a country whose latter-day progress. may fairly challenge comparison among the nations, there is room for all our native industrious ability, and to spare. Canada needs scientific and industrial training for her soñs, and this, in theory at least, may well begin in the school-room. The Sloyd instruction which we owe to the Swedes, was a move in the right direction, and should receive every encouragement. Competition among the nations is becoming keener every year, and we must not be laggards among them.- It may be, deemed still more heterodox to claim that a knowledge of Chinese would prove more valuable than Greek ere long; a hint which some of our young readers may profitably take to mind.

## THE ELEOTRIC DEAL.

The long-talked-of deal by which the Light, Heat and Power Company would acquire the Lachine Hydraulic Company and its subsidies, appears to be now an accomplished fact. This is a most important matter for the citizens to contemplate. It places in the hands of the former company, so far as can be seen at the present time, a complete monopoly of the vital interests of the community in the essentials that make for civic prosperity. Such a monopoly is not a desirable one for the citizens generally, and lends but little hope for the betterment of the prospect for cheaper and better gas, and the hope for advantage from the improvement in electric methods that should tend to lower power rates for mechanical purposes.
It may be too soon to prophesy on what will be the nutcome of this monopoly, but it is not too soon to contemplate what steps should be taken to counteract the tendency of such monopolies. The arrangement with the gas company, with its extortionate charges, will soon expire, and the contract with the electric company for street lighting has not many years to run.

We may say, en passant, that the street lighting, since the accident on the Chambly works, has been most deficient, and unworthy of a city of the importance of Montreal, and there is no sign of improvement, so far.
It was gratifying in this respect, in the public interest, to notice that a few days ago the Water Committee of the City Council revived and considered the idea of a former committee to take up the recommendation of the late Mr. Louis Lesage - the then able superintendent of the Montreal Water Works-to continue the enlargement of the water works' arreduct down to the wheel-
house. Mr his reports water powe for the wate the coal use portions, an a surplus of vide for all of the city-

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house. Mr. Lesage at that time showed conclusively in his reports that by such enlargement we could obtain a water power sufficient to do all the pumping required for the water supply of the city, and so save the cost of the coal used, which has now assumed such large proportions, and in addition to that gain, there would be a surplus of water privilege more than sufficient to provide for all the electric power required to light the streets of the city-at a nominal cost.
The movement was opposed by interested parties at the time-when electric companies were starting up-but there is no doubt that, if Mr. Lesage's unfortunate death had not occurred shortly after, his clear-sighted energy would have succeeded in carrying out his views, to the great benefit of the city.
Some time ago this Journal urged the revival of Mr. Lesage's project, and it is therefore with pleasure we notice the action of the present Water Committee, and it is to be hoped the movement may be successful.
In this connection it is as well to take notice that the City of New York has decided to relieve itself from the exactions of the lighting companies, which have recently amalgamated, and are charging very high prices for street lighting. That city is now to have an electric plant of its own for street lighting and other public uses, and will thus, it is expected, defeat the greed of the existing lighting companies. With the power that can be acquired from the enlargement of the aqueduct Montreal can have its streets well lighted at a nominal cost, in connection with other economies, and in this matter it is exceptionally favourably situated.

## THE GAMEY SCANDAL IN ONTARIO.

The Ontario Government has a disagreeable morsel to chew, and it will be a difficult matter to explain to the satisfaction of men not blinded by party feeling, how the mischief it got there. Was it not Lord Palmerston who remarked once when discussing the ways and means of party politicians, that it was difficult if not impossible to carry on the business of a government without more or less of bribery and corruption? The principal consern is that one must not be found out, as was the case among the Spartans of old. However the matter may endand a downfall would seem almost unavoidable-men will differ though not altogether along party lines, as to the respective characters of the betrayer and the betrayed. Assuming the attempt at corruption, which is much to be deplored, the "human heart by which we live" will lean more to a denunciation of the informer; honest men may condemn the one, but they will despise the other. It is unfair, howéver, to discuss the "moral tone" of a whole population because of the backslidings of a few.

## THE BANK OF BRITISH NORTH AMERICA.

The statement of this old bank and the Chairman's address at the annual meeting on 3rd inst., show that there is some force at work which is rousing the institution into greater activity and ambition than has been manifest in past years. This force, we opine, is the General Manager, Mr. H. Stikeman, who has shown himself
to be not only fully alive to the necessity of continuing the conservatism and prudence of British banking with the up-to-date competitive methods required in Canada, but to possess also the qualities needed for pursuing such a policy as the conditions of this country need to ensure success.

In addressing the meeting of stockholders, one of the directors, Mr. E. A. Hoare, whose name is one of the most honoured in the banking records of England, gave his impressions in regard to Canada, inspired by a visit to the Dominion last year. He said in regard to the movement to improve the office buildings of the bank, "I do not shrink from the responsibility of having recommended the Directors to incur a heavy additional expense on this account. Competition is keen, and unless we we provide our managers with suitable and well-equipped buildings in the very best situations, we cannot hope to secure our fair share of the commercial business of the country." This frank recognition of the pressure of competition is a hopeful sign, and shows thé wisdom of an institution whose headquarters are in the Old Country, being brought into close touch with the land and the people where and with whom its chief business is done. The Chairman spoke also on the same lines, and announced that new sites had been secured for the branches at Winnipeg and Ottawa, also that the office buildings at Victoria, B.C., and Toronto had been considerably enlarged and otherwise improved. Branches have also been opened at Toronto Junction, Yorktown, Brandon, and Fenelon Falls, and one is about to be opened on St. Catherine street, in this city.

The statement gives the net profits for the half year ending 31st December last, as $\$ 301,130$, which was supplemented by $\$ 30,490$ left over in June. These made a total of $\$ 331,620$, which was appropriated as follows:

Transferred to Reserve Fund.
$\$ 125,000$ Transferred to Officers' Widows' \& Orphans' Fundr 2,780 Transferred to Officers' Pension Fund..

4,310
Bonus to the Staff.
30,000
$\$ 162,090$
After these appropriations a balance was left of $\$ 169$,530 , which provides for a dividend of $\$ 150,000$ payable next month, and leaves $\$ 12,090$ to be carried forward to next year. The Reserve Fund was raised to $\$ 1,950,000$.

The deposits and current accounts on 31st Dec. last were $\$ 15,490,800$, and the bills payable and other liabilities, $\$ 15,182,700$, which latter item shows an increase since September, 1900 , of $\$ 3,860,000$. The circulation in December was largely increased by the bank, as was stated at the meeting, "rendering assistance to its friendly competitors whose own powers were exhausted." Such a need will not arise in the future, as so many banks are enlarging their capital. It was, intimated that business prospects were such as to render it probable that the Bank of British North America would require the whole of its authorized circulation of over 43 millions.

The granting of a bonus of 10 per cent. to the staff is a handsome gift, which will be highly appreciated. The public generally will read the interesting report of the proceedings at the annual meeting, which we publish in this issue, with much satisfaction, for this bank, its general manager and staff, enjoy a large measure of favour in business circles throughout Canada.

## THAT PROPOSED DRY DOCK.

There are rumours afloat which are far from pleasant to contemplate, concerning the proposed dry dock. In certain quarters it is stated that the selection of a site by the Commission appointed, is limited to a circumscribed locality, which must effectually exclude the now useless shoal water at Point St. Charles from consideration.

As already shown, that site is the only one at all fitted to meet the requirements of the trade for that purpose, and it is ominous of what may come if it is now eliminated from consideration. It would be of public interest at this juncture if the instructions given the Commission were made public. Such publication would set at rest, or verify, the mischievous rumours for some days afloat about this matter, that, to say the least, are not pleasant to hear.

## WESTERN ASSURANCE COMPANY.

The Western Assurance Company's 52nd annual report is a far brighter one than for some years past. It had a fair share of the better conditions prevalent last year in regard to fire insurance business. The net fire premiums, amounted to $\$ 2,633,433$, and the fire losses were $\$ 1,501,910$, the proportion of losses to net premiums being 40.9 per cent. This leaves a gratifying surplus towards making up the deficiencies of less favourable years. The marine net premiums amounted to $\$ 817,521$, and the marine losses $\$ 655,327$, the ratio of losses to premiums being 80 per cent. This was a drawback, but, if the combined net premiums of both departments and the aggregate losses are compared it will be found that the average loss ratio of the fire and marine business was 62.5 per cent., which left a fair margin of profits and a surplus of $\$ 80,795$ to be added to the reserve fund.

Income exceeded the expenditure by $\$ 245,159$, which was thus appropriated:
Dividend at the rate of 6 per cent
\$117,879
Written off building and furniture acct.
Written off investments to bring them to their
actual market value on 31st Dec., 1902.
15,000

31,484
dation to Reserve Fund.

## Excess of income over expenditure.

$\$ 245,159$
The reserve fund carried forward to next year amounted to $\$ 1,131,349$, which provides $\$ 1,018,553$ for the estimated liability on outstanding risks and leaves a net surplus over all liabilities, actual and contingent, of \$112,796.

Respecting the policy of writing off $\$ 31,484$ from the investments in order to bring them down to their market value on 31st December, there are two opinions. It is certainly a severer course to pursue than is necessary unless there are decided indications that the investments are likely to remain at the depreciated valuation for a length of time. The practice exposes a company to the unfair risk of having its investments much undervalued owing to some temporary slump in prices on one day in the year. However, the Western stood this test well and came out ahead in spite of so large a sum being written off. The Vice-President and Managing Director, Mr. J. J. Kenny, is no doubt somewhat, and very justly, elated over the successful operations of 1902 , and gratified at the growing business acquired in Great Britain.

## A TRANSATLANTIC VIEW.

Commenting on the recent acquisition of 14 vessels of the Elder-Dempster Line by the Canadian Pacific Railway Co. (at a price said to be about $7 \frac{1}{2}$ million dollars), the Economist points out that while the conditions of AngloCanadian relations are not yet ripe for the service of costly, mail boats such as Canada would like to see established, the time is coming, and will come rapidly, for such a service. Canada has entered on a new era of development that will have marked effect upon the shipping traffic between the Motherland and the Dominion. In the United States the trend of the agricultural centre is ever westward, and the further it moves from the Atlantic seaboard the more does the opportunity for Canada improve; and the more the population of the United States increases, the more must the European dependence on Canada for food become. This matter is of the first importance in connection with the national food supply in time of war. In dealing with this subject lately in special relation to shipping, it was pointed out that the great traffic of the world is not done by the great ocean liners, but by the ubiquitous "tramps." In the building of tramps the disposition has been, and is, "to enlarge the carrying capacity, not to increase the speed. Fast steaming means large bunker space, and large bunker space means correspondingly reduced cargo space. But it seems that the time is approaching when a new type of ocean carrier will be devised for special service between the nearest ports of Canada and the West coasts of Eingland and Scotland. By frequency and rapidity of service the produce of the Canadian fields and ranches will be marketed much more speedily than those of the United States can be. And, moreover, that service can be regulated on a short sea line, defensible with comparative ease in time of war. There are points in this connection that are well worth the consideration of the Duke of Sutherland's Association, to which so many persons are subscribing their names without quite knowing what they desire."

THE RETAILER'S CHANCES.
The unusually prosperous condition of the country during the past couple of years, and the exceedingly bright outlook for the coming season are favours thrown in the way of retail merchants located in the smaller cities, towns and villages, as great or greater than they could have wished for had they hopes of their desires being granted. Retail dealers there are who move from place to place if circumstances, such as a moving of a factory, etc., occur, yet during the past few years the condition of the whole country has been such as to warrant every retailer, who has been making a fair living, in sticking close to his trade and deriving therefrom the increased profits which always accompany a prosperous year with the producing classes.

But do all country storekeepers view this changed condition of their surroundings in the light that they should? Has every general storekeeper in the country kept full pace with the conditions as they changed for the better within daily hearing of his counter? Has every village retailer fully judged the immediate effects
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There is a cannot be ov necessary to are surprised new spring or really aware t coming witho found in the conscientiousl with the meri in conveying
of a few years of extra good prices for all that his neighbours have to sell, as they should and can readily be judged, by the appearance, conversation, demeanour, etc., of every customer who makes up his list? While this subject might be hastily thrown aide by the introduction of the fact that no two persons are exactly alike, and as a consequence one man conceals his condition. while another is ever ready to display it, the fact still remains that every countiy merchant of fair ability and experience can tell pretty accurately whether his customers are enjoying the extra prosperity with which the whole country is being blessed, or whether their lack of thrift, want of ability, or other cause is keeping them busy in the endeavour to prevent the bailiff from making demands.
Let any retailer in the country take his own case and apply it to that of his customers, and comparing results, either secret or displayed, note how at certain times in his business experience he could have been readily led toward purchases where, under opposite conditions he would have dismissed such a suggestion without the slightest hesitation, not because he could not have used the goods to advantage, but because circumstances at the time looked anything but cheerful.
We do not imply by this that with a few seasons of added prosperity for the farmers, mechanics, etc., a merchant has a chance and should make the most of it in forcing the sale of his goods. No. It is more necessary to use full discretion with customers when times are prosperous than when they are dull. The more at stake the more care should be used, and the more prosperous the country the more careful the merchant should be in making his customers feel, on entering his store, that they arre his invited guests, for such they really are, if he is an advertiser of his wares. "Thus, to attempt to force goods on customers who are expected to return is very often to place those persons in an awkward position, taking advantage, as it were, of their lack of excuses to make them buy more than they cared for.
A good salesman, a man recognized outside his immediate surroundings as possessing an art of selling goods far beyond the achievement of others, is never the man who continues to coax and plead. It is a part of the gifts possessed by the successful salesman to show in the fullest and yet most simple and pleasing manner the respective merits and attractiveness of his goods. In doing this without undue exaggeration he is entertaining rather than worrying his callers. He is treating his customers to a knowledge, as he has it, of the fashions that prevail, the styles likely to be in vogue, the kinds, shades, weights, ctc., which are replacing others in the great centres of fashion. If in groceries, shoes, etc., his gifts are displayed in a similar manner, but never by that extreme tension occasionally shown by the commercial traveller (and excusable in him), or by the auctioneer.
There is a strong point as regards country stores which cannot be overlooked here. To be a good salesman it is necessary to have the right goods. Many retail dealers are surprised at their own eloquence in displaying their new spring or fall goods to the callers. They were never really aware that they possessed the gifts which thev find coming without apparent effort. The cause for this is found in the fact that they have something they can conscientiously speak about. They are themselves taken with the merits of the goods, and they find no difficulty in conveying their feelings to others. Now, here is the
point we wish to bring out. How must the lack of this gift affect the storekeeper who, instead of having his stock cheery and bright, is keeping company, from month to month, with goods that even his customers have grown tired of seeing on his shelves? Can even an eloquent man be eloquent in displaying these?
If good, new fabrics, or real bargains in any line, have the power of making any salesman eloquent in advocating their merits, old, shop-worn, out-of-date, or uninviting stock in any line must have the opposite effect. Old, rusty or musty-looking goods, will make the man who holds them feel old and rusty himself, except he is turning them quer at a profit in dealing in them as such, or disposing of them even at a loss in ridding his shelves of their undesirable company.
To return to the need of a storekeeper acting on his ability as a judge of human nature, as shown by his customers' demeanour in prosperous times as against years of depression, there is also a strong point to be observed. A customer who has become thoroughly independent is apt to show that independence very quickly to the dealer who has carried him along for perhaps dozens of years, and accepted payments on account whenever he could get them. This independence is likely to be extremely visible about this time. It behooves storekeepers, then, to not only display changed attitudes, conforming with that independence, but to so arrange their stocks and keep their stores so thoroughly attractive as to win the "new-style" admiration and custom of those who have finally become independent, and being independent, are going to look for more attention, more consideration, more variety and more bargains than they had all along felt they were receiving merely because they were not indeperdent. Many such customers go to extremes in this regard, and are aching for a chance to tell the storekeeper, not how he carried them all along on his books, but how much money they paid him and what little recognition they really got for it all. Therefore it behooves country merchants to be "up and doing," to be fully prepared, in-so-far as their abilities permit, to hold the newly-independent as well as the rest, for all know the anxiety of the caged bird to get free, and also how, being free, it is likely to wander beyond its former surroundings.

The prosperity of the country calls upon the country merchant to be fully abreast, more so by far than it does to dealers in the large cities. When timus are bad the country merchant is assured of much trade, which, owing to circumstances, comes his way, but hand in hand with general prosperity comes an ever-increasing percentage of independence on the part of the producing classes. These the country merchant largely depends upon, and these he can depend upon if he resolves to keep his stock attractively neat, new and inviting, and then puts these resolves into his daily commercial life.
-A corporation to be known as the Pere Marquette International Bridge Company has filed articles of incoporation at Lansing, Mich., capital half a million dollars. F. W. Stevens, general counsel for the Pere Marquette Railway, says the company has been planning for a long time to connect with a bridge its tracks on the American side with those on the Canadian side, and this is a step in-that direction. It is hoped to put the bridge down opposite Grosse Isle, near where the Michigan Central has bridged the American Channel.

## WHAT CANDA BUYS-(33).

We continue publication of a list of the goods import- manufacturers in the United Kingdom and their repreed by our own people during the fiscal year ended 30th June, 1901, with the view of affording information to those of our friends abroad, who may be desirous of opening up or extending business in Canada. This alphabetical list, compiled from the Customs returns, is unavoidably voluminous and will probably run through the greater portion of the "Journal of Commerce" for the current half-year; but it should prove most valuable to
sentatives who would avail themselves of the advantages offered under our Differential Tariff which, it may be seen, allows one-third off the ordinary duty on goods of British manufacture exported to Canada. Any information which, alphabetically, must recur later on in our tables will be furnished meantime on application to the office of the "Canadian Journal of Commerce," Montreal:

DUTIABLE GOODS.--(Continued.)

Articles Imported.
Entered for Home Consumption.

|  | -Total Imports- |  |  | General Tariff. |  | Preferential Tariff. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Countries. | Quantity | $\begin{array}{r} \text { Value. } \\ \$ \end{array}$ | Quantity. | $\begin{gathered} \text { Value. } \\ \$ \$ \end{gathered}$ | Duty. \$ | Quantity. | $\begin{gathered} \text { Value. } \\ \$ \$ \end{gathered}$ | Duty. |

Lamp chimneys, glass shades or globes and blown glass table ware-


Painted or vitrified, chipped, figured, enamelled and obscu red white glass-

| Sq. ft. |  | Sq. ft. |  |  | Sq. ft. | 1,466 | 293.20 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Greats Britain......... 25,642 | 1,466 |  |  |  |  |  |  |
| Belgium.. .. .. .. .. .. 56,146 | 2,976 | 56,145 | 2,976 | 892.80 |  |  |  |
| Germany. . . . . . . . . .. .. 1,600 | 83 | 1,600 | 83 | 24.90 |  |  |  |
| United States.. .. .. .. .. 11,839 | 672 | 11,839 | 672 | 201.60 |  |  |  |
| Total . .. .. .. .. .. 95,226 | 5,197 | 69,584 | 3,731 | 1,119.su | z\%,64\% | 1,400 | 293.20 |
| Common and colorless window glass Great Britain.. .. .. .. .. 5,080,426 | and plain 155,884 | colored 76,140 | $\begin{aligned} & \text { we, stain } \\ & 2,369 \end{aligned}$ | or tinted <br> 473.80 | $\begin{gathered} \text { or muffled } \\ 5,004,286 \end{gathered}$ | sheets. <br> 153,515 | 20,469.19 |
| Breat Britain.. . . .. .. ... .. $10,453,486$ | 272,824 | 10,014,430 | zoъ, บบ | oz,0u1.00 | .....: |  |  |
| France.. .. .. .. .. .. .. 247.820 | 8,715 | 247820 | 8,710 | 1,840.U0 |  |  |  |
| Germany. . .. .. .. .. .. .. 366.715 | 10,443 | 429,715 | 11,6\%3 | $2,534.60$ $4,090.60$ |  |  |  |
| United States.. .. .. .. .. 410,367 | 20,453 | 410,367 | 20,453 | 4,090.60 |  |  |  |
| Total. . . . . . . .. .. 16,558,814 | 468,319 | 11,177.4:2 | 306,215 | 61,243.00 | 5,004,286 | 153,515 | 20.469.19 |
| Plate glass, not bevs lled, in sheets or Great Britain.. .. .. . .. 139,343 | nes, not 36,313 | exceeding 2,322 | $\begin{gathered} \text { sq. ft. es } \\ 571 \end{gathered}$ | $\underset{142.60}{\text { N.O.P.- }}$ | 13'7,021 | 35,74\% | 5,95'\%.44 |
| Great Britain.. .. .. .. .. 139,343 <br> Belgium.. .. .. .. .. .. .. 101,876 | 20.169 | 106,783 | 21,280 | 5,3\%0.00 |  |  |  |
|  | 8,812 | 34,642 | 8,812 | 2,203.00 | ...... |  |  |
| Germany.. .. .. .. .. .. .. 18,385 | 4,075 | 18,385 | 4,075 | 1,018.75 |  |  |  |
| United States. . . .. .. .. 10,246 | 2,573 | 10,246 | 2,573 | 643.25 |  |  |  |
| Total.. .. .. .. .. .. 304,492 | 71,942 | 172.378 | 3\%,511 | y, $\mathbf{z z \%}$ \% $\%$ | 13゙,021 | з๐,142 | 0,90\%. 44 |
| Plate Glass, etc., N.E.S.- <br> Great Britaln .... .. .. .. 224,961 | 67,992 | 3.607 | 968 | 338.80 | 221,354 | 67,024 | 15.638.99 |
| Belgium.. .. .. .. .. .. .. 123,125 | 33,649 | 124,435 | 54,185 | 11,900.10 |  |  |  |
| France. . .. .. .. .. .. .. 3,462 | 888 | 3,462 | 888 | 310.80 |  |  |  |
| Germany.. .. .. .. .. .. 11,500 | 2,947 | 11,500 | 2,947 | 1,031.45 |  |  |  |
| United States . . . .. .. .. 3,079 | 814 | 3,079 | 814 | 284.90 |  |  |  |
| Total. . .. .. .. .. .. 366,127 | 106,290 | 146,083 | 39,800 | 13,932.10 | 221,354 | 67,024 | 15,638.99 |

## BRITIS

Lord Str partment of Canadia head, whils imported decided im slaughtered healthier doubt but cattle into ing the agi that there imported $n$ paid to this chilled me equalled in He notes est shlpper shipments tations. Ca did quality There is imported fr ond place ir no means the difficul grain, unti by which footing the
In conne Lord Strath Joseph Cha not be ove
The sale more than sales amour $\$ 102,000,000$ butter, espe from this co sold in Gre belng $671 / 2$ than the ye on record, prevails tha vent the ex industry of hands of Ca creasing fro sufficient pr land Revenu facturers in on the same on scales ma
is paid on $t$ subject to t

A private the dairy pr continues m rainfall has of 1903 are Kingdom, ex average of t - Zealand further aug recorded, an they were a ters are avail their require Between the "Maori" fully the latter ves of April, so

## BRITISH CONSUMPTION OF CANADIAN PRODUCE INCREASING.

Lord Stratheona has sent his annual report to the Department of Trade and Commerce. He says the number of Canadian cattle imported into Great Britain was 5,400 head, whilst there was a decrease in the number of cattle imported from the United States. The cattle showed a decided improvement over those of last year, and when slaughtered were found to be freer from disease, and healthier than the British cattle, His Lordship does not doubt but that the embargo against the entry of Canadian cattle into the United Kingdom will be ralsed, notwithsanding the agitation in favor of its maintenance. He anticlpates that there will in thei near future be improved markets for imported meats and urges that more attention should be paid to this subject at the Canadian end. The quantity of chilled meat imported from the United States last year equalled in bulk the weight of 342,000 head of Cattle.
He notes with gratification that Canada is the second larg. est shipper of wheat to Great Britain, though last year's shipments did not exceed 10 per cent. of the wheat importations. Canadian grain is well spoken of, whilst its splendid quality insures a large trade in the future.
There is a gratifying increase in the quantity of flour imported from the Dominion, and it now occupies the second place in the returns after the United States. There is no means in sight, writes His Lordship, of getting over the difficulty of German discrimination against Canadian grain, until negotiations can be opened with Germany by which Canadian imports may be placed on a better footing than they now enjoy.

In connection with the restocking of the Boer farms, Lord Strathcona reports that he has the promise of Hon. Joseph Chamberlain that Canadian cattle and supplies shall not be overlooked when the purchases are made.
The sale of Canadian butter in the United Kingdom has more than doubled in the last three years. Last year the sales amounted to $\$ 6,736,000$, whilst the total import was $\$ 102,000,000$. There is still a large opening for Canadian butter, especially in view of the disposition to favor butter from this country over that from foreign countries. Canada sold in Great Britain last year $\$ 21,500,000$ worth of chees e , being $671 / 2$ per cent. of the total import, or 8 per cent. more than the year before. The cherse was of the best quality on record, and the importations are increasing. A feeling prevails that an effort should be made by Canada to prevent the exportation of raw materials, and to increase the industry of the Dominion. The matter is largely in the hands of Canada, as competition from other sources is de-
creasing from year to year. Lord Stratcona hopes that creasing from year to year. Lord Stratcona hopes that sufficient pressure will be brought to b : ar to have the In-
land Revenue tax so amended that goods shipped by manufacturers in Canada to agents in Great Britain shall be put on the same footing as those shipped direct to consumers on scales made in this country. At present no income tax is paid on the latter, whilst the profits on the former are subject to the imposition.

## DAIRY PRODUCE

A private London circular, date 6 th instant, treating of the dairy produce situation, says:-Butter.-The weather
continues much the same as last wzek, except that the rainfall has been heavier. So far as the first two months of 1903 are concerned, the rainfall all over the United Kingdom, except the south-eastern portion, is above the average of the last 35 years. The increased demand for New Zealand butter mentioned last week has been still further augmented, and a very good demand can now be recorded, and prices are 4 s to 6 s per cwt. higher than they were a week ago. In fact, until the' "Papanui" butters are available about next Wednesday, buyers cannot fill their requirements as only small supplies are available. Between the arrival of the "Papanui" and that of the "Maori" fully three weeks will elapse, and the butter from the latter vessel will not be available before the beginning of April, so that the market should remain firm through

March. Choicest brands of New Zealand are selling at 106s with an occasional 108s per ewt., and finest at 102 to 104 s . Milled butters are making 84 to 94 s per cwt. The Danish markets in the North of England were remarkably strong this week, and prices were several shillings better. The Copenhagen market is very firm, and the official quotation has been advanced another 4 kroner, and now stands at 100 kroner, which is 4 kroner above the corresponding week of last year. The advance of 4 kroner last week, and the similar advance this, is due to the increased demand for Danish butter from all parts of Great Britain, owing to the virtual exhaustion of cold store supplies as well as to the diminished imports of butter for the last 10 weeks. Choicest Danish is now selling at 117s to 118s Lòndon, and 119s to 120 s Manchester and the North of England.
Cheese.-There is an increased consumptive demand this week for Canadian and New Zealand cheese, and the price of each variety has risen is per cwt. Canadian choicest is making 65s and New Zealand 64s per ewt. Corresponding week, 1902, choicest Canadian cheese sold at 53 s and finest at 50 s to 52 s .

## PATENT CHANGES.

The following particulars relating to important changes in the patent laws of the United States have been given out:-Section 4,887 is amended so that an inventor is ailowed twelve months after the date of filing of a foreign patent for the same invention in which to apply for a patent in the United States, or four months in the case of a design. This rule only applies when the actual issue of the foreign patent takes place before the issue of the United States patent.
An addition has been made to this section, which applies to foreign countries granting similar privileges to citizens of the United States. By this addition those who have applied for patents in a foreign country and have subseuently applied for patents in the United States, under the conditions of the previous part of this section, will be granted all the benefits which might follow from: having the date of the United States application, but no patent will be granted for an invention of design patented or described in printed publication in the United States or any foreign country more than two years before the date of the actual filing in the United States, or which has been in public use or on sale in the United States for more than two years prior to such filing.
Section 4,892 is also amended, the most important change to Canadians being the requirement that the authority of the official before whom the oath attached to a patent application is taken "shall be proved by certificate of a diplomatist or consular officer of the United States." Section 4,896 is amended to permit the executor or administrator of a deceased inventor, not domiciled in the United States at the time of his death, to apply for a United States patent on the invention. Section 4,902 has been amended to permit foreigners to file caveats in the United States Patent Office, a privilege heretofore strictly confined to United States citizens. These changes were approved March 3rd, 1903.
-The steamship Montreal of the R. \& O. Nav. Co., has been declared a total loss. Mr. John Bertram, of Toronto, after due examination, came to the conclusion that the hull of the burned steamer is useless for the purpose of rebuilding, and that the will claim the entire insurance, which amounts to something over $£ 84,000$ sterling. The Lloyds' representatives have completed their examination, and have communicated the result of their enquiries to the Lloyds head office in England. It was stated that the R. \& O. Company would order two new steamers from the Bertram firm, both of them of the size of the burned steamer. This time, how ver, the experiment of completing the hulls in Toronto and bringing them down the rapids will not be attempted. The plan now adopted would be to build the bulls in sections and bring them through the canale.

## THE BANK OF BRITISH NORTH A「IERICA

The Annual Report was presented to the Proprietors at their Sixty-Seventh Yearly General Meeting, on Tuesday, March 3rd, 1903.

## BALANCE SHEET 31st DECEMBER, 1902

LIABILITIES.


## Deduct

Transferred to Reserve Fund. .. .. .. .. ...........................25,000 0 0 Transferred to Officers' Widows' and Orphans' Fund Transferred to Officers' Pension Fund
Staff Bonus.

Bulance available for April Dividend


## ASSETS.

Cr.
£ s. d. £ s. d
By Cash and Specie at Bankers and in Hand
By Cash at Call and Short Notice.
By Investments-
Consols, £225,000 at 90
National War Loans, £50,000 at 90
Exchequed Bonds, $£ 25,000$

Other Securities
By Bills Receivable, loans on security and other Accounts By Bank Premises, etc., in London, and at the Branches

Note.-The latest monthly Return received from Dawson City is that of the 29th Novemb: r, 1902, and the figures of that Return are introduced into this Account. The balance of the transactions for December with that Branch has been carried to a suspense account, pending the receipt of the December accounts.
£8,189,205 $12 \quad 2$

We have examined the above Balance Sheet with the Books in London, and the Certifled Beturns from the Branches, and find it to present a true statement of the Bank's affairs.

EDWIN WATERHOUSE, GEORGT SNEATH

Auditors.

Of the Firm of Price, Waterhouse \& Co., Chartered Accountants

# THE LONDON STEREOSCOPIC COMPANY, 

the ploneres of amateur photocrarhy.
STAND of FIELD CAMERAS of the Best Make. STEREOSCOPIC CAMERAS, in Great Variety.
The LARGEST STOCK of every requisite for Photographers of any house in England.
106 \& 108 Regent Street and 54 Cheapside, E.C.,
Established 50 Years. LONDON, ENGLAND.

The yearly general meeting of this bank was held on Tuesday, March 3rd, at the office of the corporation, No. 5 Gracechurch street, London, E.C., Mr, G. D. Whatman presiding.
The secretary (Mr. A. G. Wallis) having read the advertis $($ ment convening the meeting,
The chairman said: Ladies and Gentlemen,-I now have to move the adoption of the riport and balance-sheet, which are presented to you in the usual form. In September last you had the accounts for the first six months of the year s:nt you, but it is at the end of the year always that the accounts are finally made up, and additions made to the reserve fund, and any other special appropriations which may be considered desirable. We had, on December 31st, including the carry-over from last time, a balance of net profit amounting to $£ 66,361$, against only $£ 49,113$ at the corresponding time last year. We propose to pay th same dividend as last year, which will take £30,000, and we also propose to add $£ 25,000$ to the reserve fund, which will then amount to $£ 390,000$. Last year we were only able to add $£ 15,000$ to the reserve fund, but I am glad to say our profits are sufficient this year to enable us to put by $£ 25,000$, the same amount by which we increased the fund in 1899 and 1900. We also transfer $£ 557$ os 2d to the Officers, Widows' and Orphans' Fund, and $£ 862$ 14s 10d to the Offirers' Pension Fund. These appropriations require your sanction, and are, therefore, brought to your notice in the accounts.
We propose, also, with your approval, to give a bonas to the staff of 10 per cent. on their salaries. You have an excellent and loyal staff, both 'here and in Canada, and it is a very long time sincs they have had anything in the way of a bonus. The last one was in 1883-twenty years ago-and was then, for some reason or other, only given to the Canadian staff, and, I believe, not even to all of them. The bonus we now propose to give is for the whole staff throughout the bank. I am very glad our profits allow us to do this, as we feel sure it will be greatly appreciated by the members of the staff, stimulating them to increased thergy and zeal for the bank's interests, and at the same time showing them that we and you fully appreciate their services in the past. I trust this will meet with your hearty approval. It will take just $£ 6,000$, and we shall then
carry or: $\mathrm{r} £ 3,941$ to the next year's account Compared carry over £ 3,941 to the next year's account. Compared with this time last year our deposits are about $£ 53,000$ less; but our note circulation is $£ 115,000$ more than last year,
and reached at one time during the year a record figure in reached at one time during the year a record figure in the history of the bank. Other Canadian banks have
had a like experience, and I believe that throughout the Dominion the bank notes in circulation have increased no less than ten million dollars during the year, which means that nearly two dollars apiece more is carried in the pocketc of every member of the population than last year. Our cash and our call and short notice money shows an increase of about $£ 185,000$, and our investments on the last day of the year were about $£ 22,000$ less than last year. But I may mention that since that date we have invested $£ 100,000$ more in Canadian Government securities. With regard to
the bank premisis account, I should like to say a few words. This account shows an increase of over $£ 11,000$ in the year. I believe that the $£ 131,812$, which is now the figure at which it stands, is fully represt nted by the value of our premises; but I feel that it is only due to you to say that you must not be surprised if, in the next few years you $\mathrm{se}^{\prime \prime}$ a considerable rise in the figures.
We have had the subject of the opening of new branches and the improvement of old one very seriously $b$ fore us during the past year. Our valued colleague, Mr. E. A. Hoare, paid a long visit to Canada in the autumn, and, amongst other most valuable work which he did for the bank, he went thoroughly into the premises question with Mr. Stikeman, our general manager, and the result is that we have bought ntw sites for banks in Winnipeg and Ottawa. It is impossible to do a big business nowadays, or to attract new business, unless you are up to date, and when our competitors occupy fine business premises it is a mistake for us to kerp in the background. We intend, therefore, at Winnipeg to have an up-to-date bank as soon as possible, and we have made other arrangements there by which we hope, under the new management of Mr. McHaffie, to see a good increase in our profits from that important part of the Dominion. At Ottawa our old bank was not in the best part of the city for business purposes, and we have now secured a superior site. We hope that under the management of Mr. Harvey it will not be long before we shall see results showing that we have taken a step in the right direction. At Victoria we have enlarged and improved the bank building, and at Toronto also we have made considerable alterations, by which we should get an improved rental for floors which we do not require for ourselves. We have also opened a new branch at Toronto Junction, and we street, Morty have an uptown branch in St. Catherine's street, Montreal, thus following the example of other banks in that city, who have for some time established suburban branches in various directions. Besides these places, we have opened branches at Yorkton and Battleford, in the Northwest, both of which towns lie to the northwest of Brandon. I have also to inform you that during the last six months we have acquired the business of a small private bank at Fenelon Falls, in Ontario, which we hope will turn out an advantageous purchase, and we have closed a small branch which we had at Atlin. It is unnecessary for me to delay you much longer with my remarks, because Mr. Hoare, who will second the motion for the adoption of the report, will add a few words about his visit to Canada, which I am sure will interest you very
much. much.
I will only add that the year 1902 was, on tha whole, a satisfactory one in Canadian financial circles, and closed with financial institutions in excellent stbape, and with a marked feeling of confidence in the future. Canada's development is something for Canadians to be proud of, and signalizes the fact that they possess enterprise, business ability, thrift, and, in fact, all those qualities which create commercial greatness in a country. The five and a quarter millions of population have during the last few Bodies in Wood and Aluminum, Electrical Parts, Rubber Goods, Lubricating Oils, \&c.

## AUTOMOBILE COMPONENTS, Limited,

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Steam, Petrol and Electric Motors, Gears, Axles, Frames, Tools, Fittings and all Motor Component Parts, for Cars, Launches and Stationary Work.


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> NOTE—These Cars are supplied 33 x/3 p.c., less to Canadians, F.O. B. London, under the New Preferential Tariff.
years increased their foreign trade no less than 65 per cent.; they have increased the deposits in chartered banks over 84 per cent., and their deposits in the Government Savings Banks over 20 per cent. Their discounts with banks have increased 68 per cent., their bank note circulation over 58 per cent., and the circulation of Government notes over 46 per cent. I think you will agree with me that these great increases by so small a population entitle them to universal admiration. I will now formally move that the report and balance sheet be received and adopted.
Mr. E. A. Hoare,-I beg to second the motion for the adoption of the report and the balance sheet. When the chairman told me that he should call upon me to take part in to-day's proceedings, I was reluctant to respond to his invitation, for this reason, that when I was in the chair last year, influenced solely by what I belleved to be my duty to the shareholders, I used words which caused pain to some of our friends in Canada, arfd the knowledge of this has since been a cause of much regret to me, so much so, that I have felt dish artened in addressing you to-day, and should have preferred to be a listener rather than a speaker; but as it is the wish of my colleagues that I should say a few words respecting my visit to Canada last autumn, I feel that I cannot refuse to do so. In the first place, I may say that I went across with the object of visiting a relative and enjoying a holiday, and without any intention of devoting myself to business matters; but when I arrived in Canada and found every man exerting himself to the utmost, I felt that I, too, must endeavor to make some contribution, however humble, to the great work that is now being carricd on in the Dominion; and, therefore, making Montreal my headquarters, I visited as many of our branches as the time at my disposal would permit. I do not propose to weary you with a detailed account of my journeys, but I may say that I went as far as Halifax in the east, as far as Brandon in the west, and then visited our principal branches in Ontario, returning after each
journey to Montreal, and there comparing notes with our general manager. It has been a great advantage to me to revisit our branehes, to r:new old friendships with some of our branch managers, and to make the acquaintance of others whom I had not met before, and I earnestly hope that in the future we may see good results from some of the c'anges which were introduced with the cordial approval of the court and of the general manager during my visit. The chairman has already explained to you all the important features of the balance-sheet, and particularly the increase in the premises account, and the reasons which have made that increase absolutely necessary. I do not shrink from the responsibility of having recommended tlie court to incur a heavy additional expense on this account. Competition is keen, and unless we provide our managers with suitable and well-equipped buildings in the very best situations, we cannot 'hope to secure our fair share of the commercial business of the country. Having spoken thus far respecting our private affairs, I may, perhaps, succeed in interesting you if I say a few words on those' subjects which I found to be of principal interest in Canada.
First, and before all, the topic of most absorbing interest was immigration and the settlement of Manitoba and the Northwest. In all parts of Canada, in the east, as well as in the west, in the hotels and on the cars, the conversation constantly turned to this subject, for it is fully recognized that settlement of this vast country is a most important factor at the present time in the prosperity of the country. The harvests of 1902 exceeded $100,000,000$ bushels of grain, of which $60,000,000,000$ bushels were wheat, and this bountiful harvest was garnered in the best possible condition, and has realized fair prices. The result has been that the sales of land have shown a remarkable increase; the Canadian Pacific Railroad having sold in 1902 2,411,000 acres, realizing $\$ 8,129,000$, compared with sales of 830,000 acres, realizing $\$ 2,642,000$ in 1901; the Canada Northwest Land Company in 1902 sold 515,000 acres, realizing $\$ 2,519,000$, thus

## exceeding th

 immigrants, many having and, bringin on the lands two years a cultivation, grain will pears to $b$ the inhabita they speak even repeat of their cit Winnipeg is commercial son that we in the heart worthy of for this gre charter fron of bad seaso spirit which harvests eve
# The Best Value <br> IN 

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To be got out of our Splendid Range of New Samples.

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#### Abstract

exceeding the sales of 1901 by more than four times. The immigrants, generally speaking, are of the best class, many having some across the border from the United istates. and, bringing capital with them, intend to make their homes on the lands which they have purchased, so that in one or two years at the most, when these new lands come under cultivation, it is reasonable to think chas the yield of grain will largely exceed that of last year. Winnipeg appears to be the natural base for this vast country and the inhabitants of that city fix their aspirations high when they speak of its futune. I am not going to endorse or even repeat all the predictions which I heard for the future of their city but I may soberly say that in my opinion Winnipeg is destined to play a most important part in the commercial history of the Dominion, and it is for that reason that we have purchased a most valuable plot of ground in the heart of t'he city, and are erecting thereon a building worthy of the bank. But wwe must not be too sanguine, for this great country of marvellous fertility holds no charter from Providence that will prevent the recurrence of bad seasons and injured crops; and then the buoyant spirit which exists to-day, after two years of the finest harvests ever known, will, give place perhaps even to des-


pondency. Since my return home the qullestion $^{\text {las }}$ been put to me by several friends: Is not this a repetition of the excitement in the early eighties? And to this I feel able to reply in the negative. Twenty years ago the movement was one of simple speculation without settlement. Now, it appears to me to be one of investment, combined with occupation of the land; and I feel sure that the country is now far better prepared to resist the depressing effects of a bad harvest than it was at the close of the last century. The next subject I think of most general interest especially in the West was transportation. With such an abundant harvest it was, of course, impossible for the existing railways to make the necessary arrangements for its conveyance to market, and consequintly there was a good deal of criticism, for, prices being reasonably good, producers were unanimous in the desire to send forward their crops without delay. It appeared to me that there was much exaggeration in these complaints, for the great railway which traverses this eountry was evidently doing its utmost to meet the wants of the community. As an illustration of this I will read a statement which appeared in the "Montreal Gazette" whilst I was in that city. It was as follows: "On November 8th, 515 cars, carrying 850 bushels each, left

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(Cuts will be inserted as soon as received)

Winnipeg for Fort William. Three miles of track was corered with one day's trains in shipping wheat to market." Such a statement as that is surely sufficient proof that the great railway company was not neglecting the important requirements of the West. There was no doubt a shortage of cars, and also a deficiency in adequate locomotive pow r; but such deficlencies cannot be remedied in a short time, and it certainly appeared to me that the railway companies were not in the slightest degree blameworthy. The fact is that the settlement and cultivation of the lands west of Winnipeg has proceeded so rapidly and with such remarkable results as completely to outstrip the equipment of the country both in transport and in elevators for the storage of grain. During the time that I was in Canada the air was full of rumors respecting railway extentions and the construction of new roads, and before I left it had been
officially announced that another great lins would stretch across the prairies to the Pacific Coast-an announcement which was received with a most cordial welcome, for the construction of this road is not likely to injure existing int rests, and cannot fail to be of immense benefit to Canada by rendering accessible large tracts of fertile land which are at present too far distant from all means of transport for profitable occupation.
The third subject to which I may refer is of inter st chiefly to the banks. It is circulation. On a previous occasion I have explained to you the provisions of the Bank Act regarding the circulation of the banks, and I will not go over th: ground again beyond reminding you that the banks are permitted to issue notes equal in amount to their paidup capital, but no more. Last autumn, owing to the activity of trade and the unusually abundant harvest in the West,

## G. H. PALMER, AISTEY BOOT WORRS,

 Ansiev, near Leicester, - Eng.One of the largest works in England, and can supply these Shoes $33 \frac{1}{8}$ p.c. less to Canadians, under the New Tariff.

the demand supply, and to all of us. viation of thi approval, for that it would Act, which a this subject I the president fivered at To convinced that ciple of our than that I be of easy facilit stability of the has been estab dy which is should increas this. We ours culation during since the pub vestment in D be prepared, i orized limit, to ernment by as provided by refers to the increase in our was caused pa our friendly co ed, and thus to tension; but it the whole of by our own rea Dr. Drysdale which the moti The retiring a vote of than the proceeding

ESTABLISHED 1830.

## F. GOODMAN \& SON.

Abington Street, NORTHAMPTON, England.

# THE "SOLIDITY" 

Men's, Youths', and Boys' Boots and Shoes in all Qualities.
"WALKAWAY," "Unionease"
"Civilian."
the demand for notes was greater than the banks could supply, and the position became one of serious anxicty to all of us. Various suggestions were made for the alleviation of this difficulty, but without meeting with general approval, for bankers and merchants alike are convinced that it would be unwise to relax the provisions of the Bank Act, which are regarded as eminently satisfactory. On this subject I may quote a few words from the address of the president of the Canadian Bankers' Association, defivered at Toronto on November 13th. He said:-"I am convinced that no radical change in the fundamental principle of our currency system should be undertaken, more than that I believe any legislation looking to the provision of easy facilities for inflating the currency will weaken the stability of the banks and tend to impair the system which has been established:" This is sound teaching. The remedy which is most generally accepted is that the banks should increase their capital, and some have already done this. We ourselves must be prepared for an increased circulation during next autumn, and with this object we have, since the publication of the balance-sheet, made an investment in Dominion of Canada securities, so that we may be prepared, in case of our circulation exceeding the authorized limit, to deposit these securities with the Government by way of security against any excess, as provided by the special clause in the Bank Act which refers to the circulation of this bank. The considerable increase in our own circulation during the autumn of 1902 was caused partly by our desire to render assistance to our friendly competitors, whose own powers were exhausted, and thus to relieve a situation which was one of real tension; but it appears probable that in this present year the whole of our authorzied circulation will be absorbed
Dr. Drysdale made a few congratulatory remarks, after which the motion was put and carried unanimously.
The retiring directors and auditors were re-elected, and a vote of thanks to the chairman and directors brought
the proceedings to a close.

## Western Assurance Company.

FIFTY-SECOND ANNUAL REPORT.

The annual meeting of shareholders was held at the Company's offices, Toronto, on Thursday, 26th February, 1903. The President, Hon. George A. Cox, occupied the chair, and Mr. C. C. Foster, who was appointed to act as secretary, read the following Annual Report:-
The Directors have pleasure in submitting their fiftysecond annual neport to the shareholders of the Company, with balance. sheets showing the result of the year's transactions, of which the following is a synopsis:
The net premiums received during the year from all departments of the 'Company's business a mount to $\$ 3,450,955.32$, being an increase of $\$ 158,325.59$ over those of 1901 .
The net losses, including provision for those under adjustment, are $\$ 2,157,238.55$, being $\$ 9,768.88$ less than those of
last year.
The revenue account shows a balance of income over expenditure, avallable for distribution, of $\$ 245,159.48$, which has been appropriated as follows:-
Dividend at the rate of six per cent. on the cap-
ital stock of the Company . . .............
Written off the Company's building and furniture.
Written off investmients of the Company ....
bring them to the actual market value at the
31st day of December
Addition to reserve fund..
$\$ 117,87967$
$15 ; 00000$

31,483 96
$80,795.85$
\$245,159 48
In order to provide the additional office accommodation required by the growth of the Company's business, the

## Telegramb : Ribotine, Leicester.

## 



## Corset <br> Manuíacturers,

Brown
Street,
Leicester, England.
 Our Speciality


Boys Sailor \& Canadian Suits in Serges, Tweeds \& Velvets in Great Variety.

Patterns sent free of charge or Sample Parcel sent on receipt of \$10. or trade references.

Specially adapted for Colonial trade.

## white

E. BERGER \& CO.,

FAMOUS wORKS.
Rutland St., ENGLAND.

> F.O.B. London or Litexpool.

Telegraphic Adaress: "BERGER," Lester
building on Wellington street, adjoining the head office premises, part of which was previously nented, has been puchased since the close of the year. Ample room has thus been secured, not only for the present, but also for the future requirements of the Company.
FINANCIAL STATEMENT FOR THE YEAR ENDING DECEMBER 31, 1902.
revenue account.
Fire losses, including an appropriation for all
losses reported to 31st Dec., 1902..........
arine losses, including an appropriation for Marine losses, including an appropriation for
all losses reported to 31st December, 1902. ..
all losses reported to 31st December, 1902... 655,32762 General expenses, agents' commissions, etc.... 1,333,637 43 Balance to profit and loss..
$\overline{\$ 3,536,03546}$
Fire premium.
Less re-assuran
$\$ 3,325,415 \quad 51$
691,982 01

## . $\mathbf{\$ 1 , 1 5 2 , 3 8 8} 38$

334,861 56
817,521 82
85,080 14

23 F

Dividend No. Dividend No.

Depreciation
Written off
maps, etc. .
Reserve fund

Reserve fund Balance of re

United States Dominion of
Bank, loan cd
Campany's bu
Municipal bon
Railroad bon
Cash on hand
Bills receivabl
Mortgages.
Due from oth
Interest due a
Office furnitur
office and br
Agents' balanc

Capital stock $p$
Losses under
Dividend paya
Reserve Fund.

# Hotchinss \& MAY, LIMITED. 

# BRISTOL, Eng. And STAPLE HILL. 

## REGISTERED OFFICES:

## 23 Portland Square, <br> BRISTOL, Eng.

profit and loss account.
Dividend No. 82
Dividend No. 83.
\$58,826 71
(
59,052 96
Depreciation in investments.. .. .. .. .. ..
Written off office building, furniture, insurance
Written off o
maps, etc.
Reserve fund, 31st December, 1902.

Reserve fund ${ }^{\circ}$ at 31st December, 1901.
Balance of revenue account.
117,879 67 31,483 96

15,000 00
1,131,349 01
\$1,295,712 64 \$1,050,553 16 245,159 48
\$1,295,712 64

## Assets.

United States and State bonds.
Dominion of Canada bonds.
Bank, loan company and other stocks.
Campany's building.
Municipal bonds and debentures..
Railroad bonds..
Cash on hand and on deposit.
Bills receivable.
Mortgages.
Due from other companies eurrent accounts. Interest due and accrued.
Office furniture and insurance plans at head office and branches.
sundry accounts.. .. .. .. ...
\$ 282,845 0 ก
66,003 50
590,966 10
60,000 00
762,41067
491,602 35
247,179,48
96,001 74
32,550 00
184,242 62
11,631 62
59,450 50
448,834 71
$\$ 3,333,71829$

## liabilities.

Capital stock paid up....
Losses under adjustment.
\$1,970,733 00
172,583 32
59,052 96
1,131,349 01

RE-INSURANCE FUND.
Estimated liability on Outstanding Risks.. .. $\$ 1,018,55355$
GEO. A. COX, President. J. J. KENNY,

Vice-President and Managing Director.
Western Assurance Company's Offices.
Torònto, Feb. 21, 1903.

## AUDITOR'S REPORT.

To the President and Directors of the Western Assurance Company:
Gentlemen,-I hereby certify that I have audited the books of the Company for the year ending December 31, 1902, and have examined the vouchers and securities relating thereto, and find the same carefully kept, correct and properly set forth in the above statement.
(Signed) JOHN M. MARTIN, F.C.A., Auditor.
Toronto, Feb. 21, 1903.
The President, in moving the adoption of the Report, said:
The figures embraced in the Report, which 'has just been read, and which has been in the hands of the Shareholders for some days, are taken as a whole, of such a satisfactory character that the duty of moving its adoption is an easy and pleasant one.
There has been, compared with the preceding year, an increase of some $\$ 158,000$ in the total premium income, which is the more gratifyisg to us from the fact that we know that this is more attributable to advanced rates than to an increase in the amount of risks assumed. On the other hand, the total net losses incurred are less than those of 1901.
The manner in which the profit balance of $\$ 245,159$, shown in the Revenue Account, has been dealt with is set forth in the Report. I may perhaps say a word as to the amounts which it has been considered advisable to write off. There
has been $\$ 5,000$ deducted from the value of the Company＇s Building as it stood a year ago，although your Directors belfeve that the actual value of the property is consider－ ably more than the amount at which it is carried；and $\$ 10,000$ has been written off the Office Furniture Account， which embraces，I may say，the full equipment of insurance maps and plafis maintained at the Head Office and Branches， and which，though somewhat costly，is essential in carry－ ing on the business．The other item of $\$ 31,483$ ，written off Investments，is not due to any reduction in the intrinsic value of the securities，but is accounted for by the fact that the Annual Statements made by Insurance Companies to the Government require all Stocks，Bonds and similar investments to be set forth at the actual market quotations on the 31st of December．The lower prices at which many securlties of the highest grade were saleable in December last were due to temporary causes，such as the stringency of the money market at the close of the year．
After making these appropriations and providing for two thalf－yearly dividends at the rate of six per cent．per an－
num，there has been a very substantial addition－over $\$ 80,000$－made to the Company＇s Reserve Fund．
Leaving out of consideration the ftem of interest de rived from investments，there has been a protit on the year＇s underwriting of $\$ 160,000$ ，or close upon seven per cent．upon the premium income；which，although not a large margin， shows a considerable improvement upon the results of the preceding year．

Taking the different branches of the business separately， I may say that the Canadian Fire premiums show an in－ crease of upwards of $\$ 80,000$ over those of 1901，having for the first time in the Company＇s history exceeded half a million dollars，after deducting the amount paid for re－ insurance．The losses in Canada were considerably lower than they have been for many years past，there having been，fortunately，no fires of serious magnitude in the Dominion during the past year．
The United States Fire business shows considerably bet－ ter results than in 1901，having yielded a small profit． The conflagrations that occurred in the beginning of Feb－

## Uneasy is the Head that Wears a Crown

## Easy is the Foot that Wears a Boot made by <br> L． Watkin \＆ Sons，

## Wellingborough，England．

ruary，which we made the busine the Companies $g$ cipated at the ti in rates，which better footing The British and acted through the three years ago ing the expeetat it was decided to beyond the limits particularly fortu as Manager of th aftording proof o underwriter．
I must also avai the obligation wh Chairman of the I his co－Directors， Stevenson，who ha buted much to the London Branch O The volume of $b$ what less than in underwriting have in the year＇s acco running off busine profitable Agencies ginning of last yea As intimated in completed for the Head Office－a por past under lease by


Manufacturers of standard Boot and Shoe Lasts of every description, modelled after the latest

## ENGLISH ano AMERICAN

shapes by experiencedmodel makers
Also Manufacturers of the Highest
Grade Boot and Shoe

## Upper Patterns <br> (in cardboard, steelbound), by the most experienced American Designers,

We are always ready to prepare sample lasts and upper patterns for any manufacturer, and guarantee the grade and measurement of all our productions. You are invited to write us for new samples and particulars regarding our lasts. and upper patterns, for either men's or women's shoes of any grade.


## office and works, Northampton, England.

ruary, which were referred to at the last Annual Meeting, made the business of the earlier months unprofitable to the Companies generally, but had the effect, as was anticipated at the time, of bringing about a general advance in rates, which thas placed the business in that country on a better footing than it has been for some time past.
The British and Foreign business of the Company, transacterd through the Branch office established in London, Eng., three years ago has made gratifying progress, fully realizing the expectations which were entertained at the time it was decided to extend the operations of the Company beyond the limits of this Continent. I feel that we were particularly fortunate in the selection of Mr. W. B. Meikle, as Manager of that Branch, the work he has accomplished affording proof of his energy and sound judgment as an
underwriter. underwriter.
I must also avail myself of this opportunity of expressing
the obligation which we the obligation which we feel the Company is under to the Chairman of the London Board, the Earl of Aberdeen, and his co-Directors, Sir John H. Kennaway and Mr. James Stevenson, who have taken a deep interest in, and contri-
buted much to the success which has been achieved at the buted much to the success which has been achieved at the
London Branch Office.
The volume of business in the Marine Branch was somewhat less than in 1901, and while the results of the year's underwriting have beem satisfactory, the loss ratio shown in the year's accounts has been materially increased in running off business previously written through some unprofitable Agencles, which have been closed since the be-
ginning of last year.
As intimated in the Report, arrangements have been completed for the purchase of the premises adjoining our Head Office-a portion, of which has been for some years past under lease by the Company. In view of the probable in-
crease in the value of property in this section of the City it was not thought prudent to allow the opportunity to pass which presented itself of securing permanently süfficient additional office accommodation to meet not only the present, but the future, requirements of the Company's business.
I cannot close my remarks without placing on record an expression of the Directors' appreciation of the work of the officers and staff at the head office and branches during the year, and of the valuable services rendered by the agents of the Company throughout the entire field of its
operations. operations.
The Vice-President seconded the adoption of the report, which was carried unanimously. The appointment of directors for the ensuing year was then proceeded with, resulting in the unanimous re-election of the following gentlemen, viz., Hon. George A. Cox, Hon. S. C. Wood, Messrs. G. R. R. Cockburn, George McMurrich, H. N. Baird, W. R. Brock, J. K. Osborne, E. re. Wood and J. J. Kenny. At a meeting of the Board of Directors, held subsequently, Hon. George A. Cox was re-elected President, and Mr, J. J. Kenny Vice-president for the ensuing year.

Among the many wealthy Canadians who sought time balmy air of the Antilles during the past winter is Mr . Andrew F. Gault, of this city, whom it were superfluous to further particularize here. Mr. Gault has come home much benefited by this sojourn in Nassau, and is now as indefatigably occupied daily in his office as any one of the many hundred officers and other employes who are neces: sary in the various enterprises of which he is the leading
spirit.

# J. R. Bousfield \& Co. <br> LIMITED 

Wholesale Clotting Manffactures

manufactur and 42 agair once of a la dred 'hands
-A fire McLachlan Smith \& C sured for \$ Loss \$3,500.
-Mr. Joh by himself, bridge; C. I ing for ineo Company.
$\mathbf{J} \underline{\underline{o}}$
in England, for the Canadian Market, favour of Canada.
The Finest Bespoke Manufacturers $33 \frac{1}{3}$ p.c. in

-Considerable interest is taken in the announcement that the Grand Trunk Pacific intend, in addition to the powers asked for and of which notice thas already been given, to ask for power to lay out, construct, and operate as a portion of that company's railway, a line of railway from a point at or near the City of Quebec to a point at or near either Gravenhurst or North Bay, in the Province of Ontario. Mr. R. S. Logan, assistant to General Manager Hays, said that the intention was to secure a shorter route to Quebee from the West than the company now had. When the extention to the Pacific Coast was completed and connection made at North Bay or Gravenhurst, the Grand Trunk Pacific would be the shortest transcontinental route. The survey of the route, Mr. Logan added, would be commenced very shortly. The move is regarded as a most important one. The projected line will be a saving of something like 500 miles, and it is the belief of railway men familiar with the plans of the Grand Trunk Railway that the next move will be to get control of the Quebec Bridge, and thereafter secure running powers on the Inter colonial to the Atlantic, thereby having an all-Canadian route, and thereby being in a position to seek substantial assistance from the Ottawa Government. Advices from Que-
bec state that Mr. Wainwright, of the Grand Trunk, announces that the Grand Trunk Pacific is completing plans for making Quebec and St. John the Canadian ports of their trans-continental system. The company published notices that it is applying to the Federal Parliament for powers, in addition to those for which notice has already been given, to build a railway line from a point at Quebec to North Bay or Gravenhurst. It is believed in Quebee that the Grand Trunk Pacific will reach St. John by way of the proposed Quebec and New Brunswick Railway.
-The U. S. Board of Construction of the Navy Department has finally decided that the three new 16,000 -ton battleships authorized by the naval bill shall be almost identical with the Connecticut and Louisiana types as to armor and armament. Preliminary to the determination of the type of the two new 13,000 -ton battleships, it thas been deeided to prepare sketch plans for fast 22 -knot ships, and slow 17 -knot ships.

Oshawa ratepayers voted on a by-law to-day in favor of granting a land and cash bonus to the T. Eaton Co. of Toronto, who are to establish an industry there for the

# BOOTH \& CO. 

## Wholesale and Export Boot Manufacturers,

> DUKE STREET,

NORTHAMPTON - - ENGLAND

The finest High Class Boots and Shoes, for Canadian Market, $33 \frac{1}{\frac{1}{8}}$ p.c, in their favour.
manufacture of whitewear goods. The vote stood 495 for and 42 against. The company will begin the construction at once of a large factory and expect to employ three hundred 'hands as soon as available.
-A fire at New Denver, B.C., on March 12, destroyed McLachlan \& McGillivray's hotel. Loss $\$ 40,000$. J. B. Smith \& Co., general store, $\$ 5,000$, was also burned. In sured for $\$ 3,500$. The hotel was owned by Henry Stage. Loss \$3,500. Jeffries' tin shop, loss $\$ 1,500$.
-Mr. John Charlton, M.P., presented a petition signed by himself, A. McPherson, N. Dyment, J. D. Shier, Brace bridge; C. Beck and W. Barclay McMurrich, Toronto, asking for incorporation as the Lumbermen's Fire Insurance Company.
-A by-law to loan the Canadian Office and School Furniture Company, of Preston, Ont., $\$ 20,000$, repayable in ten years, to assist the company to erect a large modern factory, was voted on, and was carried, only twelve voting against it.
-The American Seeding Machine Company, recently incorporated with a capital of $\$ 15,000,000$, is seeking to secure a foothold in Canada, and if a suitable site can be secured in Toronto, a factory and warehouse will be erected there.
-The annual report of the Hamburg-American Steamship Company shows the net profits to have been $\$ 4,039,060$, against $\$ 4,639,630$ for 1901. A dividend of $41 / 2$ per cent. was declared, against 6 per cent. in the previous year.

# Joseph Dawson $\mathcal{\&}$ Sons, LONDON, ENGLAND. 

MANUFACTURERS
OF ALL KINDS OF
BOOTS AND SHOES

- MEDIUM TO BEST. -

AMERICAN OR ENGLICH STYLES.

- CORRESPONDENCE INVITED. $\qquad$
Head Office :
23 London Wall, LONDON, E.C., Eng. Manufactories :


## The Clothing Company, Ltd

47 and 49 Moor Lane, London, E.C., England .. EXPORT CLOTHING MANUFACTURERS .. $331 /$ p.o. in favour of Canada.

No Travellers. No Direet Trading, A1 Value. Superior Make and Finish.

MEN'S, YOUTHS', BOYS' and JUVENILE CLOTBING of every deseription supplied. MILITARY OVERCOATS, FROCKS and trousers, in Khaki, Blue Serge, or Drill. RIdinú Pants, IN BEDFORD CORDS. WHIP CORDS, \&c., a speciality, Laced or Buttoned, Strapped or Plain.
ment in many of Bank of 1 Henry Mo Hamilton, Apartmen along St. last few y ginning to by owners or two ful blocks alon yet seekin future for ness along
characterized the late London \& Globe scheme in London
-The Eastern Townships Bank has purchased the property at the corner of St. James and McGill streets, on which they will erect a new bank. The premises were formerly occupied by the Colonial House, Henry Morgan \& Co., the well-known retail dry goods dealers. The Amorican Presbyterian Church had previously for many years ocenpied this site. The purchase price was $\$ 250,000$. The site is one of the best in the city. The Townships Bank has secured a site on St. Catherine Street also.
-Supplementary estimates were brought aown in the Manitoba Legislature to the amount of $\$ 166,389$. This amount includes $\$ 25,000$ grant to the building fund of the Winnipeg General Hospital.
-The Bank of Hamilton is understood to have offered the depositors in the Anderson (Oakville) private bank failuse, $\$ 10,000$ in full, which is likely to be accepted.

## ARREST OF MR. WHITTAKER WRIGHT

There is a probability at last that one of those who were primarily responsible for the fraudulent practices which
may get his deserts. Mr. Whittaker Wright has been arrested on his landing in New York, looking little the worse for all the mischief he has done. There is yet, apparently, among our neighbours, a notion prevailing that all men of exalted station in the United Kingdom are wealthy in accordance with their rank. Some of them are as poor as the proverbial church mouse.

BANKS ACQUIRING UPTOWN SITES.
Bank managers and their boards of directors are usually creditsd with no ordinary degree of business foresight, and the general prosperity and freedom from vicissitudes of our chartered institutions would seem to warrant the belief. It has not until lately been deemed advisable on the part of our banks to invest largely in real estate; indeed, any. one predicting but a few years ago that the thousands of offices in the many new bank and other buildings on our main thoroughfares to-day would be rented almost as fast as ready, would be deemed a visionary. The latest move-

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(0)

## 

 LIMITED.MANUFACTURERS, WELLIMGBOBUUGH, England, and 3 Long Lane, LONOONX, E.C, England.


Specially made for Canadlan Market $33^{\frac{1}{3}} \mathrm{P} .0$. In favour of Canada.
ment in this respect is the purchase of up-town sites by many of our larger banks, following the pace set by the Bank of Montreal a few years ago, and in other lines by Henry Morgan \& Co., John Murphy \& Co., H. \& N. E. Hamilton, James A. Ogilvie, M. S. Foley (the Rellevue Apartments), and others. The progress of trade westward along St. Catherine street has been so steady durlng the last few years that the Philips' square properties are beginning to be looked upon as too far east. It is belleved by owners that property has advanced within the last year or two fully thirty per cent. in value in centrally situated blocks along that great business thoroughfare. Banks are yet seeking choice corners on which to build in the near future for their uptown branches. It is evident that business along St. Catherine street is big with promise.

## FINANCIAL.

Montreal, Thursday Evening, March 19, 1903.
The week has been one of financial sensations, to some of catastrophe. The decline in stock values has ag. gregated from 10 to 14 millions within a week. Some sanguine speculators who counted their gains on the basis of Dominion Iron \& Steel stock being saleable at 60 and upwards, have seen their gains disappear and a good slice of their capital also by the stock falling to from 35 to 36 , and preferred from 97 to 85. At the lower prices as they dropped from day to day there were enormous sales, until it seemed as though the whole stock was changing hands. It would

## Walker Bros., wellinghorush Rof Wellingborough, . - England.



Made expressly for the Canadian Market, $33 \frac{1}{3}$ per cent under the New Preferential Tariff. F. O. B. London or Liverpool.

## A. MV. SIMUPSON \& CO.,

WHOLESALE Boot and Shoe Manufacturers,

Millstone Lane, Leicester, England.<br>Special prices to the Canadian Trade, under the New Tariff.

be highly interesting and not without a touch of humour were a schedule published showing who were the sellers and who the buyers of Dominion Iron stock while the slump was in progress. Probably the list would not be long, and probably also the sellers and buyers would be found, to a large extent, to be the same operators, between whom certain over-shrewd persons have been squeezed, like grain between the upper and nether millstone. Why that stock was ever valued at the quotations of some time ago has never been explained, its earning power was only estimated and estimated, we fear, by those who had no knowledge whatever of the iron trade, which is one subject to serious

## SOAP FRAMES

Patents-No. 5107/98; No. 10862/99.


Made of Special cold flattened, olose-annealed Steel Plates, fitted with olamping bars. Weight complete, 5 owt.
Easily Erecteil. Solf-Caulklig. Guaranteed not to Warp. Wheels and $A$ cles atted if required.

## H. D. MORGAN, Patentee and Sole Maker Jamaion street, GrviskPOOL, Eag. <br> [4. Sonp Trade Suppliedunder the new Tariff ?

changes. Another sensation has been the sale of the Lac"aine Rapids, the Citizens', and the Standard electric supply companies to that financial octopus, the Montreal Power Company. The stock of each of those companies was bought at $\$ 190$ for each $\$ 100$ share. The shareholders thus get a profit of $\$ 90$ on each share, an advance that does not promise to end in lower rates for either lighting or power. The company will now have a monopoly of the supply of both electricity and gas in this city, and of electricity over the Island of Montreal, as it also controls the supply from Shawinigan Falls. The deal involves close upon $41 / 4 \mathrm{mil}$ lions of dollars. Another item is the Govt. Estimates for 1903-4, amounting to 57 millions, to start with, for it is certain that the supplementary estimates, to be submitted at the end of the Session, will amount to 6 millions or more. Pacific shows signs of rallying; it is ranging over 129 , but no present demand to push it further. The new deal of Montreal Power is causing heavy transactions, the price ranging from 96 to $97 \frac{1}{2}$, with no great enthusiasm over the higher figures. The market was stirred up by the recent amalgamation of electric companies, but is far from strong. Dominion Coal is selling at $1211 / 2$ to 122 ; N. S. Steel 107 to 1071/2; Twin City 1151/2 to 116; Toronto Street 112; Montreal

## El Padre Needles 10 CENTS. VARSITY, <br> 5 CENTS.

The Best CIGARS that money, skill and nearly half a century's experience can produce

Made and Cluaranteed by
S. Davis \& Sons, montreal., oue.

## Street $2731 / 2$.

 $1661 / 2$. Paris, local foreign sols $91 / 8$. Cal crease.The followi ending March Brokers, Mon

Banks. Montreal. Do. Molsons. Montreal, new Merchants. Nova Scotia. Commerce. Hochelaga. Quebec.



## THE "ONWARD" BRAND.

Light, Stylish and Durable. Every Pair Warranted.

8PECIALTIES :
Damp Proof Weited, M.S., Mon-Creaking.
Latest English Fittings, 3 to 6 Fittings under the New Tarift.

## FLOYD, KIGHTLEY <br> \& CO., <br> DRENSTER ST. Northampton, Eng.

Street $2731 / 2$. Bank of Montreal 256; Quebee 120; Commerce $1661 / 2$. Paris, exchange on London, $25 \mathrm{f}^{\mathrm{f}} 17 \mathrm{c}$; Berlin, $20 \mathrm{~m}, 50 \mathrm{p}^{\mathrm{f}}$; local foreign $t$ xchange, 60 's, $81 / 2$; 3 days' sight $91 / 4$. Consols $91 / 8$. Call loans $51 / 2$ per cent., with no prospect of decrease.

The following is a comparative table of stocks for week ending March 19, supplied by Charles Meredith \& Co., Stock Brokers, Montreal:



MADE BY
George Weed \& Son, Northampton, England.

Miscellaneous.

| Canadian Pacific Railway Co. | . 50060 | 130 | 1263/4 | 112 |
| :---: | :---: | :---: | :---: | :---: |
| Toronto Ry., new.. .. .. |  | 110 | 110 |  |
| Montreal Street Railway.. . | 630 | 274 | 270 | 2691/2 |
| Montreal Power Co.. | . 16196 | $971 / 4$ | 78 | 98 |
| Toronto Streçt Railway | 470 | 113 | 1111/2 | 117 |
| Halifax Street Railway.. .. | 45 | 102 | 1001/2 | 108 |
| Toledo Ry.. .. .. . . . .. | . . 1355 | $311 / 4$ | 30 |  |
| Twin City Transit.. | . 1737 | 117 |  | 1143/4 |
| Richelieu \& Ont. Nav. Co.. | . 184 | $961 / 2$ | $943 / 4$ | 1131/2. |
| Commercial Cable.. |  | 162 | 162 | 149 |
| Bell Telephone. | 32 | 160 | 160 | 165 |
| Montreal Cotton.. |  | 130 | 128 |  |
| Dominion Cotton. | 100 | 47 | 46 | 58 |
| Marconi.. |  | 155 | 150 |  |
| Payne.. | 500 | 191/2 | 191/2 |  |
| Dom. Coal, common. | . . 3314 | 122 | 117 | 18 |
| Do. pref. |  | 117 | 117 |  |
| Laurentide Pulp Co.. |  | 90 | $893 / 4$ |  |
| Detroit United Elec. Ry.. .. .. | .. 735 | $851 / 4$ | 84 . |  |
| Dominion Iron \& Steel, common | . 23040 | 47 | 32 | 46 |
| Ditto. pfd.. | . 3020 | 87 | 77 | 93 |
| Nova Scotia.. | .. 545 | 110 | 106 | 93 |
| Ditto. pfd.. .. | - 50 | 135 | 134 |  |

A. BERNOTENM, 2, Moor Lane Fore St.

Mavutacturer of the cheapest SHOES and SLIPPERS,
11 hand sown, in England, for the Canadiana; under the New Tariff.


# CRIDLAND \& ROSE, 

Manufacturers of all Classes of

Men's, Women's Children's

SANDALS, VELDTSCHOEN, SEWROUNDS, \&c.

Specialties in
Handsewn
\& Welted
GOODS FOR THE CANADIAN MARKET.

#  

ALL OUR GOODS BEAR THIS TRADE MARK: ARE SOLID LEATHER. "SEWROUNDS"


ALL GOODS BEARING THIS MARK ARE GUARANTEED SOLID LEATHER.

LADIES' DAINTY FOOTWEAR

(only featherweight.)

## Cridland \& Rose,

Wholesale and Export Boot Manufacturers,
Telegrams
"GRIDLAND, BRISTOL."
BRISTOL, England,

## Bonds.

Montreal Street Ry.. Dom. Iron \& Steel.. Ogilvie
Nova Scotia..
.. $500 \quad 105 \quad 105$ $\begin{array}{llll}1422000 & 82 & 791 / 2 & 86\end{array}$ $\begin{array}{lll}\text {.. } 1000 & 115 & 115\end{array}$... .. $1000111 \quad 111$
-London Clearing House.-Total for wiek ending March 12, 1903: Clearings, $\$ 808,661$; balances, $\$ 153,411$.
-Ottawa Clearing House.-Total for week ending March 12, 1903: Clearings, $\$ 1,825,189.62$; corresponding week last year, $\$ 1,786,819.68$.

MONTREAL WHOLESALE MARKETS.
Thursday Evening, March 19, 1903. The weather, summer-like in appearance, is causing hesitation rather than preparation, owing to the exceptionally
early date. Trade in general is fairly good, values holding rather steady. Wool is inclining to firmne'ss at the London auctions, and this is having an effect on wool fabrics everywhere.

Butter.-The market is decidedly on the slow side, and business is somewhat disappointing, sales being unusually light. Anything under finest is entirely neglected. The only business passing is in a local way for retailers and city grocers, these running principally on fresh make and finest fall. Dairy is not being much sought after and business passing is light. We notice some creamery being exported, but this is going on consignment as na orders are coming to hand. Fresth milk creamery has been in fair request at 21 to 22 c , with finest late fall 20 to 21 c . Grades under finest are offering at 18 to 20 c , without finding an outlet. New milk dairy sold at 20 to 22 c , but old dairy is. neglected and dragging slowly at 15 to 18c. Fresh sweet

Please
for
rolls are we ed, offering

Cheese. quoted high some holder
Dressed much reduc the warm v 14 to 15 clb . geese and
Egas.-Res
The market arriving at able offer b a clearance with old at WAREHOUS

London
Cardiff
Cardiff

Over 1

## Boots and Shoes. Uppers and Grindery. Leather.

## 235 Southwark Bridge Road,



LONDON, S.E., Eng.


I爵 Special rates to Cunadiana under the New Tarlff. ©a

rolls are wanted at 18 c , but old are neglected and not wanted, offering largely and no buyers.

Cheese.-The market is reported much firmer, and is quoted higher. It is now difficult to buy finest under $131 / 2 \mathrm{c}$, some holders wanting 14c. English cables are much higher.
Dressed Poultry.-The market is easier, with demand much reduced. High prices have checked consumption and the warm weather has affected sales. Turkeys are worth 14 to 15 clb .; chickens, 14 to 15 c lb .; fowls, 12 to $121 / 2 \mathrm{c} \mathrm{lb}$.; geese and ducks not to be had.
Egas.-Receipts are large and in excess of requirements. The market is glutted and consequently there is difficulty in arriving at values as prices show a wide range, no reasonable offer being refused. Buyers are desirous of making a clearance on supplies. New laid range from 14 to $151 / 2 \mathrm{c}$,
with old at 10 to $121 / 2 \mathrm{c}$. with old at 10 to $121 / 2 \mathrm{c}$.

FIsin- The practically summer weather is playing havoc with the fish trade. The bulk of the Lenten distribution is over, and fresh fish are out of the question. Prices are unsteady for the more staple kinds. New finnan haddies are dearer. Quotations:-Salt Fish-Loch Fyne herriugs, $\$ 1.15 \mathrm{keg}$; new Labrador do., brls., $\$ 5$; do., half-brls., $\$ 2.75$; green cod, No. 1, $\$ 6$; do., No. 2, $\$ 4.75$; large, $\$ 6.50$. Fresh fish.-Cod in cases, 3 c per lb.; less quantities, $31 / 4 \mathrm{c}$; haddock, $33 / 4 \mathrm{c}$; steak coid, heads off, $41 / 2 \mathrm{e}$ per lb.; fresh frozen pike, 5c; fresh pickerel or dory, 7 c ; white fish, 8 c ; lake trout, $71 / 2 \mathrm{c}$ to 8 c ; halibut, frozen B.C., 9 c ; salmon, do., 9 c lb.; fresh frozen herring, large, $\$ 1.50$ per hundred ount; Salt eels, $61 / 2 \mathrm{c}$ per lb.; kipperenes (case of 3 doz. cartons), $\$ 3.50$ per case. Standard bulk oysters $\$ 1.40$ per gallon; medium do., $\$ 1.50$, and selects, $\$ 1.60$ per gallon. Smoked Fish.-Herrings, 15 c per box; finnan haddies, new stock, $61 / \mathrm{e}^{\mathrm{e}}$ per lb.; Yarmouth bloaters, $\$ 1.10$ box; St. John bloaters,

FACTORIES:
Leicester, Desborough.
WAREHOUSES:
London, Leicester, Manchester,
Cardiff.

## 



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BRISTOL ,
VICTORIA STREET and TEMPLE STREET,


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Smart cut and finish
Up to-date in appearance
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equal to Bespoke.
Our Aim is to give you satisfaction.
Also to assist you in giving satisfaction to your Customers.

Will you give us an opportunity of proving what we say?

## RALPH DENTON \& CO.,

## BRISTOL. Eng.

Remember we show you an advantage of $381 / 3$ p.c. under
 the New Tariff

90c per box. Kippered herring, 90c per half-box. Prepared fish-Boneless cod, in bricks, 6 c lb.; boneless fish, in bricks, 5 c ; dry cod in cwts., $\$ 4.75$ per cwit.; skinless cod in cases, $\$ 5.00$ per case.
Groceries.-Molasses is advancing, the price now being 30 c per gallon in puncheons. Sugars hold steady at $\$ 3.90$ for standard granulated. Other lines are steady in price.
Flour, Feed and Grain.-Prices are unchanged from last werk. Local trade continues good despite the bad roads in som sections. Reqports from many points in Ontario are very favorable to the fall wheat, the only fear being that heavy frosts may find the wheat exposed. A fair trade is being done in baled hay, and prices show no change. We quote: No. $7, \$ 8$ to $\$ 9$; No. $2, \$ 7$ to $\$ 7.50$; clover. mixed $\$ 6.50$; and clover $\$ 6$ per ton. in car lots.-Winnipeg closing prices of No. 1 hard Manitoba wheat, 73c; No. 1 northern, $711 / 2 \mathrm{c}$; March delivery; No. 1 hard, 75 c . and No. 1 northern, $731 / 2 \mathrm{c}$, ex store, May delivery. $12,000,000$ bushels Commercial Letter says that Northof wheat in interior elevator of Mantioba and 19.700 .000 bushels in farmwest Territories on March 1, with 19.700 .000 bushe1s in farmers' hands. Of this total amount $13,000,000$ bushels will be required for seed and interior milling, leaving $18,700,000$ bushels for shipment out.
Green Fruits, Etc.-Oranges and lemons hold steady in price. Spinach is arriving and sells at $\$ 2.50$ per brl. New tomatoes are selling at $\$ 5$ per crate. Strawberries have put in an appearance, timid, yet rosy, and 40c per box moves them in whatever direction is desired. Quotations:Oranges. Valentias, 420 size, orđ., $\$ 4.00 ; 714$ size, large cases, $\$ 5.00$; California navels in boxes, sizes to box $96,112,126,150,176,200$ and 216, $\$ 3.50$; Jamaica oranges in boxes, 150,176 and 200 size $\$ 3.00$; lemons, extra fancy new Mesina lemons $\$ 3.00$; fancy do, $\$ 2.75$; choice do $\$ 2.50$;

Telegraphic Address : Indubtria, Bribtol."

## PRTTY PRMMHRRS \& CD,

28 \& 30, Victoria street, BRISTOL, Eng.


PROMPT DELIVERY.

Sole Manufacturers extra light, easy fitting Silk Hat. Pliable Consol. Price Lists upon application.
grape fruit, $\$ 4.25 ; 96 \mathrm{siz}$ heavy weigh weig'hts $\$ 6.2$ extra fancy $\$ 10.50$; appl for immediat $\$ 3.00$; sweet baskets do., figs, 5 crown box, $121 / 2 \mathrm{c} \mathrm{lb}$. fruits $\$ 1.25 \mathrm{t}$ basket crate lb.; nine pou 50 lb . boxes, Callfornia pe lb. boxes, 91 new Grenobl filberts, 9c; nuts "Bon To shelled almo cocoanuts nev fornia celery week ending were as follo


## BONE AND TALLOW DIGESTERS

## W. NEILL \& SON, ENGIMERS, IROM \& BRAss FOUMDERS, BOILERMAKERS



BOAP, OIL AND TAR SPECIAL PUMPR. SOAP PANS, TANKS, moists. 8 FRAMES STEEL SOAP The Beert STEEL SO D D Che Market CRUTCHING MACHINES New Bar.Cutting and Tabletting
Machines Machines HR WHA HINERI Machines with Dieag GLYCERINE PLANT, With Fure or stem Evaporation



In Cast Iron
or Gun Metal.
CHEMIGAL PUMPS,
AIR COMPRESSORS, Canstctisere mproved Vavee FURACES, WECHANICAL FURNAGES Holsts, Cranest
Winches
GRINDING MILLS
Edga-Rumner or Buri with Fatent Necks. ACIIO


ST. HELENS JUNGTION, LANCASHIRE, ENGLAND.

PRIOES AND PARTIOULARS ON APPLIOATION.
m Special Prioes to Canadians under the new Tariff wa
grape fruit, choice Jamaica stock, 64 size, $\$ 4.50 ; 80$ size, $\$ 4.25$; 96 size, $\$ 4.00$; Almeria grapes, fancy long keeping heavy weights, $\$ 7.00$; choice ditto, $\$ 6.50$; good medium weig'th $\$ 6.25$; cranberries, dark Cape Cod, per brl., $\$ 14.50$; extra fancy Nova Scotia, per barrel, $\$ 11.00$; fancy do., $\$ 10.50$; apples, finest Spies, $\$ 4.00$; Greenings, fair stock, for immediate use, $\$ 2.50$ brl.; finest Baldwins, Russets, etc., $\$ 3.00$; sweet potatoes, double head Jersey, barrel, $\$ 5.50$; baskets do., about $50 \mathrm{lb} . \$ 2.75$; pineapples ( 24 to case) $\$ 4.50$; figs, 5 crown, 18 lbs . to box, $131 / 2 \mathrm{c} \mathrm{lb}$; 4 crown, 10 lbs . to box, $121 / 2 \mathrm{clb}$; 2 crown, 1 lb . boxes, 13 c ; batanas, Jamaica fruits $\$ 1.25$ to $\$ 2$; tangerines, $1 / 2$ boxes, $\$ 3.25$; tomatoes, six basket crates, $\$ 5.50$ to $\$ 6.00$; dates, new golden, $41 / 2 \mathrm{c}$ per lb.; nne pound packtages, $61 / 2 \mathrm{c}$; evaporated fruits, apples, 50 lb . boxes, $61 / 4 \mathrm{c}$ to 7 c ; Calif. apricots, 25 lb . boxes, 12 c ; California pears, 25 lb . boxes, 13 c ; Californla peaches, 25 lb . boxes, $91 / 2 \mathrm{c}$; do. prunes, $40-50,9 \mathrm{c}$; do., $50-60,8 \mathrm{c}$; nuts, new Grenoble walnuts, 13c; Taragona almonds, 13c; Sicily filberts, 9 c ; Jumbo pecans, 16c; large pecans, $141 / 2 \mathrm{c}$; peanuts "Bon Ton" roasted, 11c; Sun, 10c; "G" 9c; Coon. 71/2c; shelled almonds, 28 lbs . to box, 28 c ; shelled walnuts, 25 c ; cocoanuts new ( 100 in bag) $\$ 3.50$; Brazil nuts, $141 / 2 \mathrm{e}$; California celery $\$ 5.50$.-Exports to Europe of apples for the week ending March 14, according to a New York report, were as follows:-

From- Liverpool. Glasgow. London. Various. Total. $\begin{array}{lllrrrrr}\text { New York.. .. } & . . & 6,238 & 3,300 & 11,858 & 6,133 & 27,529 \\ \text { Boston. . ..... .. .. } & 11,741 & \ldots . . & 6,418 & \ldots . & 18,159\end{array}$


The markets are ruling a shade steadier, but receipts have been liberal at all points. The total shipments to date are $2,359,394$ barrels, against 758,641 for the same period last season. For the coresponding week last year 10,240 barrels were shipped.

Green Hides.-An advance has been made in calfskins: prices being now 11 and 9 c lb . for No.'s 1 and 2. Other hides are unchanged in price. Lambskins are arriving and com. mand 10c each.

Hardware and Metals.-Prices are showing more firmness with advances here and there. Door locks advanced recently. In fact, the hardware market is strong all round. Jobbers have placed orders with manufacturers for large quantities of builders and other lines of hardware, and owing to the many favorable reports from their travellers from all over the country they anticipate a heavy business. Prices are trending upward all along the line in sympathy with the advances in ingot metals at home, and on the London and New York markets, where speculative buying has been stimulated by the estimate recently by the

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This is a Good Type of Crane for handling goods; The special shape of jib gives maximum clearance underneath for dealing with Bulky Packages.


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(Leicester \& London) Limited,
London Crane \& Engine Works, Leicester.
22 Walbrook (Cannon Street) LONDON, E.C., England
Cranes are our Speciality.

United States Mine Owners' Association to the effect that they were anticipating that they would require to increase the output of metals by $5,000,000$ tons this year to keep up with the increased demand. During the past month ingot tin has advanced 3 c to 4 c per pound, and ingot copper 1 c to $2 c$. The prospects of an increase in the tariff on lead has also greatly stimulated the demand for that product.

Leather and Shoes.-The movement in leather is principally confined to export trade, the local demand holding comparatively light. In shoes the cost of manufacturing footwear gradually increases. Manufacturers who use silk recsived notice recently that an advance in the price of that material has been made of fifty cents per pound, and the indications point to still further advances. During the past two months cotton drill prices have gone up, and manufacturers have been advised that a further advance of six or eight per cent. will be made in the near future. One large cotton manufacturing concern recently refused a heavy order from a jobbing house at the old price. Increased cost of mohair has also made slightly increased prices in laces necessary. While there has been no ricent advance in kid, the poorer selection the cosessitated the use of a better grade, adding again to the cost of the shoe. This, of course, refers only to the finer lines. The greatest advance that has been made is in the cost of cartons, for which manufacturers now making contracts are compelled to pay thirty per cent. more than formerly.
Otls, Paints, Etc.-Cod liver oil has apparently reached a height bordering on prohibition, for values have gone no higher during the week. Linseed oils are lower, at 59 to 60 e for raw, and 62 to 63 c for boiled. Turpentine is firm at 95 c . White lead is unchanged.

Provisions.-Within the last day or so the market for fresh killed hogs has shown much firmness, doubtless influenced by higher prices in Ontario. Sales have been
made during the week at $\$ 7,75$ to $\$ 8.15$ as per grade, but some are now holding for an advance. Cured meats are likewise firm but former prices prevail. Quotations: Heavy Canadian short cut mess pork \$24; Canada short cut back ork, $\$ 23$ to $\$ 23.50$; light do., short cut clear pork, $\$ 22.50$ to 23; finest kettle lard $20-\mathrm{lb}$. pails $121 / 4 \mathrm{c}$; extra pure lard, in $20-\mathrm{lb}$. pails, $103 / 4$ to $111 / 4 \mathrm{c}$; choice refined compound lard, $81 / 2$ to 9 c ; Boar's Head brand, in $20-\mathrm{lb}$. wood pails, $\$ 1.95$ to $\$ 2.05$; Globe at $\$ 1.75$ to $\$ 1.85 ; 20-\mathrm{lb}$. tin pails, $1 / 4 \mathrm{c}$ less per lb.; hams, 12 to 14 c ; bacon, 14 to 15 e lb.-Chicago, Mar. 18. Provisions closed $71 / 2 \mathrm{c}$ to $321 / 2 \mathrm{c}$ higher. Future quotations closed: Pork, July, $\$ 16.87 \frac{1}{2}$; September, $\$ 16.40$; May, $\$ 17.65$. Lard, May, $\$ 9.871 / 2$; July, $\$ 9.721 / 2$; September, $\$ 9.721 / 2$. Ribs, May, $\$ 9.671 / 2$ to $\$ 9.70$; July, $\$ 9.45$; Septem ber, $\$ 9.32 \frac{1}{2}$. Cash quotations closed: Mess pork, $\$ 17.77$ to $\$ 17.871 / 2$; lard, $\$ 9.75$ to $\$ 9.85$; short ribs, sides, $\$ 9.55$ to $\$ 9.70$; dry salted shoulders, $\$ 8.871 / 2$ to $\$ 9$; short clear sides, $\$ 10.371 / 2$ to $\$ 10.50$.-Liverpool, Mar. 18-Hams, short cut, steady, 55 s 6 d . Bacon, Cumberland cut, firm, 53s 6d; long clear middles, light, steady, 52 s 6 d ; long clear middles, heavy, steady, 52 s ; clear bellies, firm, 54 s 6 d ; shoulders, square, steady, 44 s . Lard', prime western, steady, 50 s ; American refined, in pails, steady, 50 s.

Wool.-As the London auction sales proceed added firmness is shown as indicated in our last week's report. On the 17 th the offerings numbered 14,375 bales. Merinos were in general demand, and American buyers paid full prices to obtain suitable lots. Scoureds sold readily. Crossbreds were in better demand, coarse grades causing spirited competition. A few lots of fine crossbreds were taken by Americans. Punta Arenas sold well and showed an advance of 5 per cent. The sales will close on March 24. On the 8th the offerings numbered 14,252 bades. The demand was good, and merinos and fine crossbreds sold briskly, broken lots reaching extreme rates. Lambs wool was in keen demand. American buyers took a few parcels of fine merinos and crossbreds.

## LATEST DESIGNS.

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Tholesale
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> Medium and Better Class LADIES' BOOTS \& SHOES.

Farrar; automatic water feed for boil- and nitrate of soda, in the following
ers, G. Wilkins.
Owen N. Evans, solicitor of patents and expert, Temple Bldg., reports the following patents granted to Canadians recently:-United States. - Car brake, F. X. Berube; engine, F. H. Slesper; tilting table polishing truck, L. Gassard et al.; shirt waist holder and skirt upporter; F. E. Moody;

## PATENT REPORT.

rs, G. Wilkins.

MANUFACTURE OF BLASTING IAND SPORTING POWDER

Blasting powder is made of the fol-
wing materials:-Sulphur, charcoal
proportions:-
Sulphur-14 per cent.
Charcoal-14 per cent.
Nitarate of soda-72 per cent.
This equals for a keg of 25 lbs., practically $31 / 2 \mathrm{lbs}$. of sulphur, $31 / 2 \mathrm{lbs}$. of charcoal and 18 lbs . of nitrate of soda. The only difference between blasting
and sporting powder is that in the

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## Unshrinkable

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Ladies' Under skirts,
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Ladies' Bathing Dresses, etc., etc.

manufacture of sporting powdér salt- charge of blasting powder and more peter takes the place of nitrat of soda and it requires a special kind of charmost any kind of charcoal will anower fo: blasting powder. It also takes muel more time for incorporating the sporting powder on the wheel mill.
The sulphur and charcoal are first thoroughly pulverized and mixed in tumbling barrels. The nitrate of soda is generally put through what is termed a beater, or blower. This machine blows it into a settling chambr in the form of fine dust. Neither is at all explosive in its natural states and there is absolutely no danger until the three above named ingredi'nts are mixed or incorporated, and just as soon as they are incorporated they become very explosive. The more thoroughly they are mixtd or incorporated the more explosive the product is.
It generally takes about an hour and a half to thoroughly incorporate one mederat good men can be secured at a half to thoroughly incorporate one moderat: wages, but great care is al-
charge of blasting powder and more ways necessary. Eternal vigilance than twice as long to incorporate one always requird, and the least carecharge of sporting powder. From the lessness on the part of a workman at minute tha se ingredients are thoroughly mixed there is great danger. A spark of any kind, no matter from what source or when or bow it may come, it means instantaneous exploşion and frequently death.
If a workman in any of the departments causes an explosion that man will not live to tell the cause of it as a general thing.
On the other hand, there is no danger whatever unless a spark of fire is made. There are no "ifs" or "ands" or "whys" about it. If the spark of fire comes, it means explosion, therefore workmen know just what they will do when ngaged in this kind of a business, and yet the average life of a workman in a powder mill is said to be mere than the general average and, strange to say, as a general thing,
lessness on the part of a workman at
any stage of the process of manufacturing powder is liable to end in disasuring powter wery preat care is ter, consequently very great care is arolutely necessary in the manufacfure of all the machinery, bulldings or whatever there is pertaining to the manufacture of good powder, from the wheels to the packing room. The foundations must be of the very best quality and deep enough to avoid any danger whatever from upheaval or settling by the action of the frost. Every board s'teculd be put in its place with brass screws and every journal on every machine should be so made that there will be little danger of heating. Great care must be taken to prevent danger from expansion and contraction of the different parts. The process of manufacture is as follows:-

After the charcoal and sulphur have been thoroughly prepared in the tum-

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S. M. WILMOT \& CO., BRISTOL, Eng.

Manufacturers, Inventors and Designers of Galvanized Steel Troughs

Cattle, Horses, Sheep, Pigs, etc. GALVANIZED
Corrugatéd Cisterns, Gorn Bins. Wheel Barrows, Mangers, Racks, etc.

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## MANUFACTURING CONFECTIONERS,

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SPECIALITIES :-Manzipan Fancies, Bouquet Lozenges Best Gum Goods, Cream Goods, \&e., \&c.

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Full price lists free on application.
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Cash against bill of lading.
bling barre prepared thr preduct of first into the mills in the i. e., 14 per charcoal an soda, in qua lbs. at one $t$ The wheel heavy whet plate or bec and 9 feet in eight tons, groove near wood staves. tends up th a very heavy of this are which ar: al 20 inches fac partly on th the plate is upright shaft

## The Brook Manufacturing Co. <br> Clarke Road,



Northampton, ~ Eng.
-MANUFACTURERS OF-

## Ladies" Gowns, .ọ. and Skirts,

For the Canadian market, $331 / 3$ p.c. preference under the New Tariff.
bling barrel and the nitrate of soda gear wheel with countr-shaft and pin. |After the material has been thor prepared through the blower the united ion for driving the wheels. The wheel: preduct of the three is put tog ther, must be arranged so that they e? first into the wheel bed under the wheel work up or down in a special bearing mills in the proportion above named, and the bed plate should be set on the i. e., 14 per cent. sulphur, $14 \mathrm{p} \leqslant \mathrm{r}$ cent. very best kind of a solid foundation. charcoal and 72 per cent. nitrate of The whe 1 mill and the bed plate tosnda, in quantities of about 200 to 300 gether with the shafting and gear will lbs. at one time and slightly dampened. welg'ht in the neighborhood of 26 tons. The wheel mill consists of two very The speed of the mill is from 9 to 12 heavy wheels and the heavy plate. The r. p. m. It should not under any cirplate or bed is about 6 inches thick cumstances be more than 12. The maand 9 feet in diameter, weighing about terial is placed on the bed under the eight tons, turned on the face with a wheels and the wheels started. The proove near the sids for the upright whe 1 m mill building should be made of Hood staves. A very heavy shaft ex- very heavy stone walls on three sides tends up through this. There is als with light covering on the other side is very heavy cross shaft. To the ends and roof so that in case of an explo$f$ this are fastened the heavy wheels, sion the light roof and side will blow which ar: about 6 feet in diameter and off whout materially damaging the 20 inches face, turned on the face and foundations or the other three sides. partly on the sides. In the centre of Also the machinery should be so ar-
the plate is a sort of cone. To the ranged that the mill can be stopped or upright shaft is fastened a very heavy started without entering the building.
oughly mixed or incorporatid it is taken in a dust form to the press, which is of a horizonal type about 24 inches square. There are pockets or receptacles about 24 inches each way, that is, the powder is taken in a dust form from the wheels and put into these receptacles. There is a press plate of copper or some kind of fibre between each chamber or pocket. The press is then started and this dust is pressed from 24 inches down to 1 inch thick with a hydraulic press with a pressure of 500 tons to the square inch. The powder as it comes from the press is in solid cakes, seemingly as hard as brick or stone. The pressed cake is th:n taken to the graining mill, which consists of a special zine roll where the cakes are broken up into fine grains or particles.
From the graining mill it is taken to the glazing or finishing mill, where it

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East Bond Street, - LEICESTER, Eng.
-MANUFACTURERS OF-
High and Medium Styles of BOOTS and SHOES.

881/3 p.o. cheaper than other Countries, under the New Canadian Preferential Tariff.

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Modern,
LEICESTER.

## Orson, UURIGHT \& Sons,

62 and 63 Basinghall St., LONDON, E.C., and South Wigston, LEICESTER, England.
is thoroughly dried and finished. This tub. This allows the glazing to be mill consists of large wooden cylinder done in about onequarter the time with- cast iron ends about 24 -inch used in the old process.
diameter, 14 feet long. Great care is From the glazing barrel the powder necesary in the construction of this is passed to the grading reel, similar particular mill, as there is consider- to other reels, which is generally made able expansion and contraction due to in hexagon form and clothed with the heat, and one end must be made grit gauze or aluminum or brass wire so as 40 slip a trifle on the shaft to and made into different grades. Sometake care of this expansion and con- times as much as six different grades traction. are made. The powder is then taken In the old process the material was to the packing room and packed into placed in the glazing tubes and al- kess, some ores mins using lowed to remain there 18 to 24 hours in antomatic scales. order to thoroughly dry and glaze the On account of the danger from $\in \mathbb{K}$ glazing a small quantity of black lad plant should be placed some distance is added, which adheres to the powder apart. Where the ground is hilly the by glazing it over, also protecting it different mills can be placed in the from the action of the atmosphere. gully n:ar together, bu't where there The most modern system, however, $i$, are no hills the mills should in spread to pass a curren't of hot air over the on a tract of land of about tu aeres. material while it is in the glazing For making 200 kegs of blasting pow-
der a day will require the tuenbling barrels for pulverizing and mixing the sulphur and charcoal; 1 blower or pulverizer for pulverizing the nitrate of soda; 1 set of wheel mills; 1 press; 1 graining mill; 2 glazing tubs; 1 sizine reel: 1 packer. It will require the following horse power:-

For tumbling barrel.
For blower for nitrate of soda..
One wheel mill.
One graining mill.
Two glazing tubs (each)
Or a total of about 75 horsepower: The most economical way for power at the present time would be to run the press, the tumbling barrels, graning and glazing mills with motors 'apring a central dynamo and the brance of the mill with engines. During the process of manufacture there will be

# HART \& LEVY, Ltd. 

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and
Export

## Clothing <br> Manufacturers

OF HIGH CLASS CLOTHING ONLY,
FOR MEN AND YOUTHS.

Special prices to Canadians under the New Preferential Tariff, $33^{1 / 3}$ p.c., in favour of Canadians.

Manufacture

Equal to any Tariff, F.O.B

## Cowine \& Company,

 Ladies' High Class Boots and Shoes.

We make only the Highest Grades, under the New Canadian Preferential Tariff of $331 / 3$ p.c., in favour of Canada.

about 5 per cent. of dust coming from the sizing reel which goes back to the wheel mills, and after the charge has been pretty well mixed to be worked over the second time. Also there will be about 20 per cent. of dust from the graining mills, which goes direct to the press to be worked over.
It will require to run a plant of inis kind about the following labor:-
Two workmen for the wheels and pulverizers.
Two firemen.
One engineer.
Two men for graining mill.
One man for packing.
One man at blower.
One foreman.
At the present time, according to the Oil, Paint and Drug Reporter, the cost of nitrate of soda is about 2c a pound, cost of sulphur and charcoal about the same. Therefore, any one can figure out the cost of making powder.

# C. \& E. L, EVVIS, NORTHAMPTON, ENGLAND. 

Manufacturers of the Finest High Grade

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Equal to any made in Amerioa, for the Canadian Market, $331 / 3$ p.o., cheaper, under the New Preferential
Tariff, F.O.B., London or Liverpool. Send for our New List,

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No Flue Required.

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Contractors to the
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Special prices to Cansdisns ander the New
Tariff. 8836 D c. in favour of Csnads.


D 8. Inclusive Price, £4. 5
preservation of white pine. mier, Aylmer; Mayor Gendron, Hull.
The rapid depletion of the white pine forssts of Canada was the theme of the Presid.nt of the Canadian Forestry Assuciation, Mr. William Little, Westmount. Montreal, in his opening address at the annual meeting at Ottawa recently. Among those present were: Aubrey White, Department CommissionSouthworth. Commissioner of Forestry and Immigration for Ontario; Sir Sandford Fleming, Hiram Robinson, E. Stewart; George Johnson; Dr. Saunders, Director of Experimental Farms; Prof. Macoun, Robt. German, J. R. Reid, Ottawa; Georg. Y. Chown Kingston; T. S. Young, Toronto; Geo MeCuaig, Bryson, Que.; A. Harold Unwin, London, England; N. E. Cor

The President in his opening address teferred to the report of Mr. Charles referred to the report of Mr. Charles 1. Sargent, professor of arboriculture at Harvard University, over twenty years ago, which demonstrated to the world the facts that the original great forests of the North Atlantic and lake States of the American union were not inexhaustible as many ignorantly supposed them to be, but were even then showing signs of the early depletion of the ir most valuable timber trees, in-

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Government enquiry into ests of the white pine, a if the Gover requested it in a needless by the too re and destructi millions of d the President to say what pine in my o adian forests, dent, that if continues, and for be delaye the condition pine forests $m$ lar terms to t the snakes in are no snakes able to say 'T forests in Can Allusion was action taken b serve the fore

## ——_

Ladies'

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Government to grant a Parliamentary enquiry into the conditions of the forests of the country, especially the white pine, and it was safe to say that if the Government had then done as requested it would have saved the loss in a needless waste of valuable timber by the too reckless cutting by the axe and destruction by fire of hundreds of millions of dollars. "I will not," said the President, in conclusion, "attempt to say what amount of good white pine in my opinion exists in our Canadian forests, but of this ${ }^{-1}$ feel confident, that if the present indifference continues, and the inquiry then asked for be delayed for many years more, the condition of our Canadian white pine forests may be stated in very similar terms to the school boy's essay on the snakes in Ireland. He said: 'There are no snakes in Ireland.' We may b: able to say 'There are no white pine forests in Canada."
Allusion was made in the report to action taken by the Provinces to preserve the forest wealth of the country
a
and to the growing interest taken in forestry, as evidenced by Queen's University arranging a series of lectures on the subject and the steps taken by Toronto University looking towards the establishment of a chair of forestry. The decision of the Ontario Goverwment to lend such financial assistance as would lead to the inauguration of a school of forestry should, it was stated, recelve the hearty endorsation of the association. are appended:-

Mcehanical pulp...
Sulphite.
Soda.

Statistics prepared by Mr, Geo. Mr. Aubrey White, Deputy CommisJohnson show that the wood pulp in- sioner of Crown Lands for Ontario, dustry of Canada for the calendar year delivered an instructive and practical was carried on by 35 mills, which had address, entitled "History and Results an output of 240,989 tons of wod pulp, of the Fire Ranging System in Ontaa decrease of 23,611 as compared with rio." Mr. White stated that in 1885 1901. The figures for the two years he was asked by Mr. Pardee, the then

The value of the output of 1902 was $\$ 4,383,182$, and the quantity exported amounted to $\$ 2,501,664$, which in a general way is 57 per cent. of the production. Of this amount, Great Britain took $\$ 976,192$, the United States $\$ 1.598,139$, and other countries $\$ 17$, 333. The power to operate the mills was derived chiefly from water power. Of a total power equal to 81,725 horsepower, 78,296 is water-power. Commissioner of Crown Lands, to submit a memorandum embodying a 1902. 1901. scheme for establishing a system of for $155,210169,369$ est ranging. Previous to this an act $76,735 \quad 84,500$ had been adopted by the Legislature $9,044 \quad 10,740$ for the prevention of forest fires, but $\overline{240,989} \quad-\quad$ it was practically a dead letter. Mr.

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quest. The period of danger from fires was from May 1 to October 1, and he suggested that fire rangers be placed on licensed lands during that period. It was left to the lumbermen to say what number were required, and also to select suitable men. Mr. Pardee was anxions to eliminate from the arrangement anything of a political nature, and to get the confidence of the umbermen, so that the scheme might be a success. The lumbermen were asked to select men of cool temperament and sound judgment, who would not unnecessarlly harass or annoy the settlers, for if the settlers were antagonized an army of men could not protect the forests of Ontario from fire. In case of fire the rangers had carte blanche to call out all the assistance they needel to subdue it. In order to enforce the provisions of the forest fire act, power was taken to appoint rangers as Magistrates and their assistants as constables. Owing to the character of the men chosen by the lumbermen, however, the Government had not felt justified as yet in appointing many rangers as Magis trates. The cost of the supervision of the forests and the suppression of fires was divided equally between the lumbermen and the Government. The Hicenses required the rangers to keep a diary of their movements from day to day, and to note anything of inter-
est which occurred on the limits. In this way a good deal of interesting information was obtained. It was no: until 1887 that fire rangers were appointed on lands of the Crown. In 1885, at the inception of the system, 7 men were kept in the field, at a cost of $\$ 7,911$. Last year 234 rangers were employed, at a total cost of $\$ 108,000$. In the discussion which follow: d, Mr. J. R. Booth said the lumbermen had nothing but praise for the Government, and especially Mr. White, for the care which was taken of the timber resources of the Province. They had always found the Government \%ady and anxious to give the owners of limits all the assistance they required. The Government, by its fire ranging system, had saved millions of dollars' worth of timber to the colctry, and the only thing he could recommend was to enforce the regulations without fear or favor, and to prevent settlers from going into a timbered country which was not fit for st tlement.
Mr. Thos. Southworth urged that bettel protection be provided for th timber on Crown lands not yet licens ed, and especially in districts where municipal authority 'had not been established. In respect to expense, he remarked that the services of Crown lands agents might be taken advantage of. A legal time should also be
ixfd during which fires might be set by sttlers.
The following papers were also read: The Forests of New Brunswick, Lieutenant-Governor of New Brunswick; "A Report on the Conditions of Lumbering and Forestry in Westeri Nova Scotia," F. C. Whitman, Ann apolis Royal; "Forest Fires," W. A Hendry; "Forest Protection in the Railway Belt of British Columbia, Jeames Leamy, Dominion Crown Tim ber Agent, New Westminster.

In the assembly hall of the Normal shool Prof Jeffrey of Harvard Unirersity, formerly of Toronto Univer sity, delivered an address upon "Forest Trees and Their Uses." The lecture Tries and Their Uses. The lectur was illustrated, and was followed with keen interest. His Excellency the Gor ernor-General was present, and Hon Clifford Sifton occupied the chair. Mrs. Sifton was accorded a seat on His Ex cellency's right. The Chairman in open ing the meeting said he had travelled good deal in Ohio before coming to Ottawa, and had been impressed with the excellent effects obtained by the systematic preservation and planting of trees in connection with the increase of the fertility of the soil and of rainfall. This had led him to establish a forestry branch in connection wlth the Department of the Interior, the officers of which, he was assured, had done very useful work.

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Oanadian Buyers are reminded, they have $331 / 3$ p.c., in their favor, under the New Tariff
(ILEAT RAILWAY ACROSS SIBERIA.
The finishing touches are just now being put on the improved great siberian Railroad, and in a few weeks the entire line will be open for all kinds of traffic. After years of labor under the most adverse conditions, the Russian Government has at last accomplished its greatest work in the line of transportation. The views given here will give an idea of the vast undertaking. IA surveying party has begun laying' out a new branch of the Manchurian Railroad from Kwangchangtze to Girin. It will be amout 135 miles long. Girin is an important commercial centre, being located at the crossing of many roads and at the head of navigation on the Sungari River.
Siberia is pre-eminently a country of magnificent distances, even more so
than the United States. It is one huwdred times larger than the British Isles and double the size of the United States. It has a mining and agricultural area fifty times the size of Eng. land. It has rivers navigable for the largest flat bottom boats for 30,000 miles. Little is known to the outside world of its immense resources, but it probably is as rich a land in minerals as any in the world. Its forests are numbered by the hundreds of thousands of square miles.

All this field is now thrown open by the completion of this railway, and it is expected that rapid development will proceed. For 4,000 miles there is an unbroken chain of rich mineral lands, in which are gold, silver, lead, copper and iron of unestimated wealth. The great railroad, with its 6,000 miles of iron rails, traverses this field and many will reap untold fortunes in exploiting these mines.

Everything in Siberia is big, with a vastness that is marvellous to every one except an American and Russian. Leaving Moscow on the Siberian express one is told that the first stage of the journey to the golden East is over the plains of Western Siberia. The traveller does not realize that it is 2,500 miles to the extreme border, which takes three days to cover. Through the entire trip of this stage, there is not a hill or a cut through which the train passes. Reaching the Balkan region the scene shifts, much to the relief of the passenger. For a thousand miles the roadbed is cut througlh high, rocky mountains, and the grades are something awful to comtemplate. The train first goes up, then down, then swings around a precipice, perhaps changing the monotony by passing through a tunnel. All this takes about two days, for fast time is impossible. Then one comes to a lake that is half as big as England, and

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across which the train is ferried. This is a difficult undertaking in winter, for the ferry boat must break through the ice. It is an expensive operation, and it is doubtful if in the end it would not have been cheaper to build around. It is forty miles to the opposite shore, but it must be confessed that the trip is a delightful break in the monotonous journey
Once on the other shore there is a run of 1,500 miles to the Pacific Coast All this country is hilly and rocky and the road winds around so much that it is difficult to keep track of the points of the compass. Thus the line is divided into four great divisionsthe plains, the forest rolling land of Central Siberia, the high mountainous ranges of the Bailkal, and the hills of the Pacific section. In the section of the forest there are more curves than in any other, owing to the great marshes, but on the plains the road is as straight as a string for a thousand miles.
When the project was first broached t.) span the 6,000 miles by rails the iden was laughed at. It was realized by en gineers that the task would be a gigavitic one, and no one could see where the profits were to come from. The Russian Government, however, knew more of the resources of Siberia than did the critics and the astuteness of the officials is now fully recognized.
Last year $2,000,000$ passengers and $1,500,000$ tons of goods were transported, anci the traffic will increase with the complete opening of the line. That is pretty well for a country where you may travel for days without seeing a single house. It is impossible to estimat" what the traffic will be when the country is developed to a quarter of its ability to produce. No doubt the passengers will amount to $50,000,000$ and the freight to $100,000,000$ tons a year The population of Siberia already has grawn to $9,000,000$ from $6,000,000$ since the road was stared. Towns have sprung up in the wilderness and smok from factories is a common sight. Two years ago the junction of Tomsk had three houses, now there are 15,000 ped ple there.
While the main line-the great artery
-will do wonders for the country, the
branch lines, of which fully two score are projected, will people the country much more rapidly. The White Sea Black Sea, and the Baltic will be connected with this great producing ar tery, and as a result Russian shipping must grow to take care of the export of the future. This fleet is startling to contemplate, and the prediction i made that it will eclipse that of ever ceuntry on the globe eventually. Then Russia and the United States will be the two world powers. The tug of war must come between them, which probably will result in Russia bsing the producing nation and the United States the manufacturing nation.
When it was decided to build the railroad an army of 200,000 appeared That army of workmen was cosmopoli-tan-Russians, Germans, American French, Turks, Khirghis, Tartars, Tungas, Bariats. Ostiaks, Mongolians, Chi nese, Manchurians, Japanese, were con spicuous. The task of feeding them wa great. At avery verst is passed a quse little sentry box by the side of the track. Looking out of the window one Pes the sentry step into the roadway and wave the flag-after the train has passed-to declare that all is well. There are 10,000 such sentinels keeping watch.
Siberia civilized; Siberia densely peo pled; Siberia rich in manufactures, rich in industrises, rich in grain, and in the midst of the great world, which lies east, west, and south of it, Si beria the bridge of that world's com-merce-these certaintles of the approaching future should make politician and trader alike pause. When Sib: ria expands it will flow southward over the Mongolian wastes, which irrigation and the engineer shall reclaim and over f:rtile China, which the powers shall prove powerless to prevent.
This, the greatest of the world's rail-roads-and easily twice the longest-is emphatically a pioneer line. The pre: sent Czar cut the first sod at Vladivo stock in 1892; eight yiears afterwardsin two years less than it took to build the much shorter Canadian Pacific line. The railroad was nearly complete But only complete as a pioneer line. The very speed of the building defeated $i$ th own end. The permanent way

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is too narrow, and often enough a mere embankment which the winter frosts and the washouts of spring have alr ady removed at many points. Then the Russion rails were far too light45 pounds to the yard.
But they are now repairing at leisure What they made in haste. The whole line is being relaid with heavy German and American steel rails, long creosoted sleepers and widened way. It is even coutemplated to lay a double line throughout the entire length-a colossal enterprise which the American transcontinental lines thave never attempted.
Russian system naturally dominates everything. Here it is, for example, in the stations, of which, by the way, there are 400. They are bullt on a strictly systematic plan and graduated into four classes. The first and second class are built of brick or stone; they have very good refreshment rooms and complete arrangements at the back for t mpararily housing and dispersing the $2 \pi 0,000$ pick:d emigrants now annually ent ring Siberia. The lower classes are built of wood and uncooked food is procurable at these. All, of course, have a water tower and a stor:housebark:d with earth up to the roof to ketp out the cold-and to every station there is attached a small dispensary, with a dispenser in att ndance, which is a welcome s nough sight in this land of distances. In the case of an accident, or of sulden illness, of course, his presence is doubly welcome, for he charges nothing for this services or his drugs.

DETERMINATION OF THE DYEING VALUE OF INDIGO.

So many manufacturers and public dyers in this country and upon the Continent buy their indigo, whether in the form as imported from India or in paste or powder, upon the percentage of indigotin and indirubin combined, contained in the indigo, disclosed by the processes, so far as this country is concerned, detailed by Edmund

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The centage test for indigo $m$ use on the Continent is apparently different to thbat in use in this country, for the results are usually about $21 / 2$ points higher, sometimes mone! Which is the correct centage test, so far as the percentage of indigotin and indirubin combined is eoncern d?
Upon the face of it, the oentage test appears to be an easy method of buying indigo, especially for those whose knowledge of the article is limited. For example, a dyer if offered:-
20 p . c. indigo paste at 10 d per lb. and 60 p . c. indigo at 3 s 2 d per 1 lb .,
it is apparent that upon centage tes't the 20 per cent. indigo paste looks the cheaper dye, because he can buy 3 pounds of 20 per cent. chemical indigo for 2 s 6 d ., whereas 1 pound of 60 per cent. casts him 3s 6d, but subject these two indigos to the comparative color dye test and a different result may be diselosed.
I will take a further example-four samples of indigo, each showing 60 per cent of indigotin and indirubin combined, each costing the same price, made at different factories, were sub'jected to the dye test; each-dyed pattern showed a different shade or depth of colon and it was an easy matter to pick out the best.
The practical dyer will probably say that the comparative color test is not

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buying their indigo: It involves a little trouble and a little time, but only a small expense for the small plunt and chemicals used.

In these days of close competition in the markets of the world, the cost of production has got to be studied, often fractionally, and a fiew pounds lost or saved in the dyeing process may m can the loss or the gain of a contract. Th? practical dyer may also say that laboratory dye tests cannot be relied upon and that the practical results obtained in the dyehouse are the only reliable tests to determine value. That is all well and good, and probably practien results are the truest, but does the iudigo dyer exhause all the coloring mitter from his vats each day? I think not. Then, how can he arrive at the amount of coloring matter left in his vats and its value after they have done their day's work?
(A) dyer may be comparing the $r$ iative value of two sorts of indigo in two vats, side by side; he dyes so many pleces, or a given weight of loose wool
a reliable indication of the results which the dyehouse valts will show, fer mentation of chemical. I do not contend that the comparative color dye test is absolutely a true test, but I think it reveals to the dyer the true dyeing value of indigo closer than the centage docs, and that indigo buyers will benefit by adopting this test before buying in each vat, to a certain pattern shade;

MONTREAL WHOLESALE PRICES CURRENT THURSD $A$ Y, MAR. 19, 1988.


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each vat appears to work as well as
the other and the color depositel upon the pitces of wool in each case appears to be equally good; he can in a meature determine the amount of coloring matter taken out of each vat by the increased weight of the material after washing and drying and allowing for the wastage of color in washing, probably somewhat difficult to estimate, but how about the residue of coloring matter left in each vat? That is of an unknown quantity and value. The indigo vat is a tricky friend; it can be mede a good or bad paymaster at the will of the directing band.
The same may be said of the permanganate of potash solution, which is acted upon by many substances which are innooent of coloring matter.
I am not a practical dyer, but only a distributor of indigo among English consumers extending over a period of 26 years, and by keeping my eyes and ears open I have gained a little experience and a little information from the practical exponents of the indigo dye vat. Only two friends can I call to remembranoe who buy indigo upon the comparative color dye test, and I have often wondered why they have bought parcels which by the centage test showed such poor value at the prices paid, but they are firms who stand on the topmost rung of the ladder in every respect and their buying first aroused questions in my mind which prompted me to have dye test trials carried out, the results of which this article discloses.
That milk analysis case is a striking one, the neport of which appeared in the London press. Upon a Government analysis test, a milk retailer and the farmer who supplied him were convicted of selling milk to which water had been added, and were heavily fined. They were charged a second time, and

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MONTREAL WHOLEGALE PRIURS OURHEAT THURBDAY, MAR. 19, 1808.

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the magistrate being dissatisfied remanded the case and conducted trials thimself. He went to the dairy and had milk drawn from a cow into phials in the presence of witnesses. The phials were sealed and marked and handed to an analytical chemist. His analysis showed that water had been added. The magistrate had proved that nature could add water to milk through the cow, which the chemist had proved man had added! The prisoners were discharged and the fines refunded.

## SPONGE FISHING IN FLORIDA

The sponge beds In Florida comprise what are locally known as the "key grounds" and the "bay grounds." The former extend from Key West eastward and northeastward at least as far as Cape Florida. In this region the sponges are found in the shallow water among the keys and along the reefs. The "bay grounds" are in the Gulf of Mexico and extend from John's Pass, a short distance above the entrance to Tampa Bay, to Appalach e bay. A few sponges are also found in the gulf south of Tampa bay, but not in quantities sufficient to warrant working. The finest sponges come from the "bay grounds."
On the "key grounds" the fis'hery is mainly prosecuted with small slooprigged vessels of about five tons burden. As this fishery is carried on between the keys and the mainland, where am-

MONTREAL WHOLESALE PEGCESCURRENT, THURSDAY, MAR. 19, $190 \mathrm{I}_{\mathrm{o}}$


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ple shelter is found from storms, small vessels can be used with perfect safety In the "bay" fishery larger vessels, av eraging about thirteen tons are used. The larger vessels carry from five to thirteen men and the smalled ones from three to five, the number nearly always being odd. The sponging itself is carried on from small dingies, in which two men always work together. The sponging apparatus is exceedingly simple, consisting merely of three-tooth ed hooks attached to poles of varying lengths to suit the different depths of water and the sponge glass, an ordinary water bucket with the bottom knocked out and a pane of window glass substituted.
When working the man who does the gathering is called the "hooker," while the one who manoeuvers the boat is called the "sculler." The former is always in charge. When the "hooker" thinks a favorable place has been reached the gets down on his knees, and, leaning his breast on the gunwale, he places the sponge glass on the surface. He then inserts his head in the upper portion of 1 t , and is thus enubled to see the bottom distinctly, even though the surface should be covered with ripples.
When he perceives a good sponge he signals the sculler in what direction to send the boat, and when he gets over it he inserts the hook under the sponge and by a dexterous twist tears it loose and pulls it to the surface.
This looks very simple until one tries it and sees what a bungle an amateur can make of it. As many of the sponges are gathered in depths of thirty feet or more, it requires a practiced eye and hand to properly insert the small hook underneath a sponge which is probably not more than four to ten inches in diameter. Great care must be taken not to let the sponge work loose from the hook, as in that event it would

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Springs the sales are in the morning generally.
For a few hours before the beginning of the sale the buyers are permittted to inspect the various piles of sponges and count the bunches, but are not allowed to weigh them. At the sound of the opening gorig the auctioneer takes his place in front of the first pile and announces the number of bunches in it. The buyers then write on slips of paper the sum they are willing to give per bunch for the pile. These are handed to the auctioneer, who lays them face down on the palm of his hand until all are in, when 'he turns them over and reads them off. The slip containing the highest bid is then handed to the buyer making it, who writes on it his initials and the date and offers it to the owner of the sponges. If he accepts it the sale is censummated; but if he refuses the sale is off and the sponges are removed and brought back the next sale day. The buyer is not allowed to back out of his bid unless the can clearly prove there has been some fraud in the matter.
As each buyer is allowed only the one bid, great care and skill are requir d on the part of the buyer not to go too high or too low. Sometimes the bids vary greatly, as a buyer may have a. 1 imperative order for certain varieties, and he bids high in order to be sure of getting them.

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The buyers have large warehouses, and in these the sponges are thoroughly dried, the remaining dirt and debris r-moved, the rough edges trimmed off só as to make a more shapely appearance, and then baled for shipment.
Previous to about ten years ago some of the trips were very profitable. One of the best ever made was probably that of the Competitor, from Key West, in the winter of 1879-80. She was out about (ight weeks and stocked $\$ 4,200$.
As it is a difficult matter to gather sponges in the deeper water the experiment of taking them by means of diving was tried in 1884. Three Greek
sponge divers were brought over to this country and these men, together wita an experienced diver from New York, did the first work. The experiment did not prove successful, however, owing to the heavy expense for diving and the fact that sponges were not found in such abundance in the deeper waters as had been anticipated. As it was claimed that the diver in walking over the bottom destroyed the young growth, the legislature in 1889 passed a law forbidding the gathering of sponges by diving either with or without suits.

The spongers classify the sponges as ollows: Sheeps-wool, yellow, grass, velvet and glove. There are several othergrades, but they are chiefly recognized as minor sub-divisions of the above. The sheepswool is the most valuable, says the New York Times, and is generally known tho the consumer as the bath sponge. The other varieties are principally employed in the arts and sciences.

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Among the most important inventions of modern times, those that serve to theal chronic ills may ever be placed in the front rank. The firm of Messrs. James Allen \& Son, of London, Eng., may well lay just claim to such contrivances, for from the various testimonials before us of speedy and permanent cures, they certainly must control invaluable specialties in this regard. To be healed by medicine is, at best, tedious, expensive, disagreeable, . and very often unsatisfactory.

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Dr. George Harley, M.D., F.R.S., in his work on the "Urine," says:-"One of the easiest of these in application is Allen's portable Turkish bath. It can be used by a patient lying in bed as here represented, or what is still more convenient (when the patient is strong encugh) while in a sitting position. encugh) while in a sitting position.
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an uncomfortable dry state of the skin. Dr. Wood had a severe trial case of heart disease and kidney affections, where it was dangerous on account of the heart to give the patient a bath, or anything that would excite the circulation, and yet essential to have a copious sweating. The patient was delirious. He has got well."
T. E. Turner, Esq., surgeon, writes: "A brother of mine bought your portable Turkish, vadour, and herbal lath, which answers admirably. I examined your bath minutely and compared it with others, and yours are very superior both in construction and mode of appliance; producing much more satisfactory results upon the patient in a
(with its disperser on) under a kitchen chair or stool, on which should be placed two or three folds of flannel. The whole person, except the head, is then enveloped in a cloak or packed in a blanket, having the ends on the ground to prevent escape of heat. The fest being placed on a footstool, with a pan of water or not, according to inclination, and the bath may be taken in this way from fifteen to forty minutes."
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very much shorter time. By the use of your bath the patients can breathe pure air uncontaminated by the foetid humors pouring forth from the seven millions of pores in your neighbour's skin as he sits by your side in the ordinary Turkish or Russian bath. Besides, there is no risk from over-expansion of the pulmonary tissues of the lungs, as when people are compelled to brtathe a heated atmosphere; nor risk from rupture of the delicate blood-vessels of the brain. There are many other advantages which tend to make $\mathrm{m} \rho$, and not only myself, but all other professional men who have tried them. strong advocates for their uses, in places of all other kinds of Turkish, Russian or herbal baths."
The Countess of Crawford and Balcarres writes from Dunecht House:The baths sent io Lady Crawford are perfectly satisfactory and work beautifully. She will be obliged by Messrs. Allen returning the bill receipted."
Sir Pryse Pryse, Bart., writes:-"Sir Pryse Pryse encloses a cheque for the amount of the account due to Messrs. Allen, and also for another bath, which he requests them to send him at once. Sir Pryse is very pleased indeed with the one he has. He has been accustomed to take Turkish baths at Hammam's, in Jermyn Street, for years, and he finds, with the aid of Mesrs. Allen's apparatus, and a large plunge bath, that he can obtain just as good a one at home in the country."

The Rev. J. R. Mills, of Manchester, writes under date September 27th, 1880: "I am now able to say, after three months' use, that the bath has far exceeded my expectations, and that I have already saved the price of it, not tor speak of the great comfort of being able to take the bath in one's own bedrocm at a moment's notice, instead of having to drive miles to a hydropathic establishmpnt."
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## PALLM OIL

The extraction of the oil from the palm nut and the palm nut kernel, the twa principal products of the palm tree Elaeis guincensis, constitutes one of the most important industries of the West Coast of Africa, where it represents a yearly value of about two and a half million sterling. Up to the present time this industry has been carried on exclusively by the natives, who employ tedious and imperfect methods of extraction. Recently, however, experiments have been conducted in the German colony of Cameroon by Dr. Preuss, and Der Trpoenpflanzer publishes some remarks on the subject. The fruit from which the oil is extracted consists of an outer covering of firm pulp and a touch inside wrapper whick
encloses the kernel. According to the native method the pulp, which contains the palm oil, is first softened by a bath of six hours' duration in boiling-water. After having been separated from the touch envelope by means of wooden pestles it is transformed into a fibrous mass, from which the crude oil is $f \mathrm{x}$ tracted by squeezing it by hand pressure. The raw product is refined by melting it in boiling water and collecting the oill as it rises to the surface. It is easy to understand-that as a result of these imperfect methods the residue still contains a large quantity of oil; in fact, the amount extracted by the natives in some cases does not exceed 33 per cent., although occasionally as much as 80 per cent. is extracted. The great loss of oil thus occasioned would, it is asserted, be avoided if an apparatus could be devised for- seperating mechanically the pulp from the kernel; and the machine should at the same time be capable of treating fruit of different sizes. As for the so-called nuts, which are tough and woody, they are extracted by hand from the oily mass and broken in pieces with a hamme $\boldsymbol{r}^{\prime}$ in order to extract the kernels. These latter are usually exported just as they are, as the natives do not seem up to the present to have tried to extract the oil which they contain. This oil from the palm nut kernel has very similar properties to cocoanut oil, and is used principally in the manufacture of soap. There are at Cameroon two other varieties of the oil-yielding palm

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trees, which differ somewhat from the ordinary palm tree in that the envelope the kernel is less tough and easier to separate.

## A METHOD OF PRESERVING WOOD.

A Lombard manufacturer has installed at Milan an establishment for the development of a new method of wood preservation, which is described in the Civils. If one places a piece of wood in a liquid of which the boiling point is above 100 degrees C., such, for instance, as the heavy oil of tar, maintained at a temperature intermediary between
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the temperature be constant until all trace of boiling disappears, it is found that all of the water in the pores has been expelled with the exception of a small amount in the form of steam-
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immediately filled by the tiguid of bath under the action of atmospheric pressure, and thus the wood is complete. ly saturated in every part with the matter of the bath.
The same result is produced when, without allowing the wood to cool in the bath, it is taken out and plunged into a cold bath of the same mixture, or a different one from that in which it was first immersed. This is an important point, as it allows the employment as absorbents of matters having a boiling point under 100 degrees, and different in this respect from the first bath, which must be composed of a liquid the boiling point of which is above 100 degrees.
If, in the place of a homogeneous liquid, one employs two liquids of different densities, separated into two beds, the wood may be submerged successively in each liquid, so that a given quantity of each may penetrate into it. If the wood be first placed in a saline solution, it penetrates to the bottom of the pores, and if the tar is then absorbed, the latter forms a superficial bed which prevents dilution of the interior saline solution, as well as the action of humidity. The method al. lows absorption without and deformetion of the constitutional elements of the wood, and by it the wood is given great resisting powers to traction, bending and decay.

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