
Vol. 55. No $_{\text {NEw }}^{\text {SmRIRs. }}$

MONTREAL, FRIDAY, SEPTEMBER 19, 1902.
M. S. FOLEY New serins.

Purveyors by Royal Warrant to His Majesty the King.
JOHN MOIR \& SON, LIMITED London, Aberdeen \& Sevillo.
Jolly Powders, Salad Oll. Potted Meats. Pure Plckles Mayfair Pates. Mayfair Rolled Ox Tongues. Tart Fruits: Jams. Soups in Classes and Tins. Honey. Preserved Cinger. Mayfair Relish. Herrings. Capers.

Manufacturers of the Celebrated SEVIILLE ORANGE MARMALADE, prepared under patent from H.M. ALPHONSO XII., King of Spain
Showcase of Samples and Offlce (Next to Telephones) Manchester Grocery and Produce Exchange, HANGING DITCH.
Representative: : - Mr.J. FREEBODY. Head Office:

The Patent Buffer Tyre, IS PERFECTION.

As supplied to H.M. The King.

AB Supplied to H.R.H. The Prince of Wales.
-
The War Office and Indis Office.

Can be fitted in a few hours to any wheele, old or new. Insist upon having them. For comfort and durability they excel all former styles.
THE SIRDAR RUBBER OO. LTD. Shirland Mews, London, W., England. Irish Depot: Moss St., Dublin. 9 \& 10 Great Tower St., - LONDON, E.C., Eng.

# CALLENDER'S.. 

 Cable \& Construction Co., Ltd.
# HEAD OFFIOE: <br> <br> Hamilton House, Victoria Embankment, <br> <br> Hamilton House, Victoria Embankment, LONDON, E.C., Eng. 

Telephone:-1911, HOLBORN.
(Reading matter will be changed and cut will be)

## BUYERS OF <br> Blanched Almonds, Ground Almonds, Split Almonds, ano all orurer obaoes.

Glacé Cherries, Gelatines, Wainut Halves.
Broken Walnuts, and all kinds of Nut Kernels.
GULCOSSE, CREAM OF TARTAR, TRRTRRICC ACLD

## Cornflour, Farina,

 Starch Powder, Cereallne.... COLORS, COCOS BUTTER, BAKERS' BUTTER ...

TOFFEE, BUTTER, HONEY, \&c., Are Invited to write for Quotations to SIESEL BROTHERS,

134 Upper Thames St., LONDON, E.C., Eng.
Telegrams : "PRUSSIATE, London."

## Mulholland, Maugham \& Co. Lit.,

West Cornforth, Co. Durham, England.

MANUFACTURERS OF
Coal and Coke Handling Plant of all Descriptions, Colliery Heapsteads and Mining Machinery - . -


Special Prices to Canadians under the New Tariff.


New Sun Iron Works, $180 \frac{1}{\frac{1}{2}}$ BURDETT ROAD, E., LONDON, Eng.
And Watermoor Foundry, CIRENCESTER GLOS., Eng.
(Cuts will be inserted as soon as received.)

The Linde British Refrigerator Co, Ld.
301 ST. JAMES ST., = MONTREAL.
SOLE MAYUFACTURERS
OOLD-AIR-CIRCULATION SYSTERM.

Over 3,200 Machines Sold. Special Machines for DAIRIES, BUTCHERS,Etc,

WRITE FOR INFORMATION.

MCINTYRE SON \& Co, MONTREAL,
IMPORTERS of DRY GOONS.
DRESS GOODS, SILKSS, LINENS, SMALL W.ARES, TREFOUSSE KID GLOVES, ROUILLON KID GLOVES.

```
13 VICTORIA SQUARE,
```


## Mcarthur, Corneille \& Co .

$\mathbf{3 1 0}$ to $\mathbf{3 1 6}$ St. Paul Street
147 to 151 O ommissioners St., MONTREAL.
Manufacturers and Importers of
White Lead, Colors, Glass, Varnishes, Glues, dre.
Oils, Chemicals, Dyestufts, Tanning Materials, dec. Agents for
berlin aniline co., Berlin, Germany:
Manafacturers of Aniline, Colors and Other Coal Tar Products.

JHIIS CORSMITMR COO.,
Limited.

## Manufacturers and <br> Importers of

$H A T S$
CAPS
AND FURS

MONTREAL. $\overline{=}$

## ALPRED T. HOLLAND.

 Accountant and General Agent,TEMPLE BUILDING,
185 ST. JAMES STREET, MONTREAL, QUe.
REPRESENTING
The North Imerican Mercantile Igency Co., New York.
The Ottawa Trust \& Deposit Co., Ottawa.
Respectfully solicits correspondence with Foretgn
business firms and manufacturers who msy rebusiness firms and manufacturers who may re-
quire a correspondent or sgent in the Dominion quire a correspondent or agent in the Dominion
of Canada. References kindly permitted. The Editor of this paper and the Royal Bank of Canada.

## $\bar{x} \quad \mathrm{x}$ That following frande

## THE American Tobacco Co.

## of oannda, Limitod.

Are sold by all the Leading Wholesale Houses
cut tobaccos.
Old Chum,
Seal of North Carolina,
Old Gold.
CIGARETTES
Richmond Straight Cut, Sweet Caporal,
Athlete,
Derby.
X

## PROPERTY FOR 8ALE

FOR SALE IN CANADA (ABOUT 5 MILES Wert of Niagara Falls) In the Garden of the Dominion, that First Class Grain Pasture and Fruit Farm known as "BEECHLANDS," near Thorold and St. Catharines ; z bout $1 / 2$ mile from Market, Churches, Schools, etc., about 90 acres fertile loam clay; Flshing Stream, Barns Stables and other Outhouses, all for $£ 1,500$, Contains large Stone House, Orchard, Grove and Lawn, Gothic Stone Lodge. Easy Terms. Produces also Grapes, Pears, Peaches, Plums, Cherries, Quinces, Strawberries, etc. Steam rallway to the Falls has been replaced by electric tram through the place.

Address the owner
M. S. FOLEY,
"Journal of Commerce," Montreal, Canada.

## ROOFIIG AID ASPHALTIIG

OF EVERY DESORIPTION.

Metal Cornlces,Skyllghts, \&c., Cement and Tile Floors, Cement Washtubs

## $\& c$.

Canabuan Agents:
Boston Hot Blast Heating, and Pneumatic System of conveying Mill Stock.

GEO. W. REED \& CO., HONTRERLL.
"Destructors for Town Garbage"


Horsfall Destructor Co., Ltd, Leeds, Eng. Canadians can purchase these furnaces at
$88 \%$ p.c. cheaper than any other Country.

## BLACK DIAMOND

 FILE WORKS.Еет. 1863. INC. 1895.


HIGHEST AWARDS at TWELVE International Expositions.

## SPECIAL PRIZE,

GOLD MEDAD; at ATLANTA, 1895.
G. \& H. BARNETT COMPANY,

The Chartered Banks.

## BANK OF MONTREAL.

(ESTABLISHED 1817.)
Incorporated by Aet of Parliament.
Capltal (all paid up) $\$ 12,000,000,00$ Reserved Fund, $=8,000,000.00$ Undivided Profits, - $165,856.09$

## HEAD OFFIOE: MONTREAL.

BOARD OF DIREOTORS:
Rt. Hon. Lord Strathcona and Mount Royal, G.C.M.G.: Drummond, - Vice-President. Hon. Geo. A. Drummond, Vice-President.
Ed. B. Greenshields, Esq

Air F. Gauit,Esq.
E. S. Clouston, General Manager.
A. Macnider, Chief Inspector and Supt. of Branches.
bRaNOHES IN CANADA:
MONTREAL, H. $\nabla$. Meredith, Manager.
" Wert End Branch.
Seigneurs St. Branch.
Point St. Charles Branch

| Almonte, | nt | Perth, Ont. | Glace |
| :---: | :---: | :---: | :---: |
| elleville, |  | Peterboro, | Halifax, |
| antford, | " | Picton, | Sydney, |
| Brockville, | 46 | Sarnia, | Calgary, Aita. |
| Ohatham, Cornwall | " | Stratiord, <br> St. Mary' E | Letina, Ass'a. |
| Deseronto, | " | Toronto, | Winnipeg, Man. |
| Ft. William |  | "Yongi st. br. | Greenwood, ${ }_{\text {Nelson, B. }}$ |
| Goderich, | " | Wallaceburg, ${ }^{\text {Montreal, }}$ Que | New Denver, B. ${ }^{\text {N }}$ |
| Guelph, | " | Orebec, | New |
| Hamilton, | " | Chatham, N.B. | ter, |
| Lindsay, |  |  |  |
| London, | " | Moneton, N . | Vancouver, |
| Ottawa, | " |  |  |
| tawa, |  | Armherst, N.s. | Victoria, |

St. John's, Wid., Bank of Montreal.
IN GREAT BRITAIN:

London, Bank of Montreal, 22 Abchurch Lane, E.C. Alez. Lang, Man
in the united states:
New York-R. Y. Hebden and J. M. Greata, Agents, 59 Wall Street.
Ohicago-Bank of Montreal, J. W. de O. O'Grady, manager.
bankers in great britain:
London-The Bank of England.
". The London and Westminster Bank. Liverpool-The Bank of Liverpol, Ltt. Bank, and Scotland-The British
Branches.

BANKERS IN THE UNTTED STATES:
New York-The National Oity Bank.

- National Bank of Commerce in N.Y.

Boston-The Merchants' National Bank.
Buffalo-The Marine Bank, Buffalo.
San Francisco-The First National Bank.
Montreal, 80th A pril, 1902.

## THE BANK OF TORONTO.

INCORPORATED 1855.
HEAD OFFICE: TORONTO, CANADA.
Paid-up Capital
Reserve Fund
of Oommercial Paper and Securities

The Chartored Banks.

The Bank of British North America.
(Incorporated by Royal Charter.)
The Court of Directors hereby give notice that an interim di videadifree from Income Tax for the half year ending yoth June last, of 30 Shillings per ehare beiog at the rate of o per ceit. per annum, will be
paid on the 3rd day f uctober next, to the pro paid on the 3rd day f Uctober next, to the pro The Dividend will be paid at the rate of exchang current on the 3rd day of Octnber next, to be fixed
by the Managers.
No tranefers can be made between the 19th inst. and the 3rd prox., as the books must be closed dur-

By order of the Court.
A G. WALLIS,
No. 5 Gracechurch Street, London, E.C.
2nd September, 1902.

## The Molsons Bank. 94th dividend.

The Shareholders of The Molsons Bank are hereby notified that a Dividend of
Four and One Half Per Cent. ( $4 \% \%$ ) upon the capital atock has been declared for the current half year, ann that the same will be pay the Branches, on and after the

First Day of October next.
The transfer books will be closed from the
17 th to 30th September, Both days inclusive.

THE ANNUAL GENERAL MEETING of the shareholders of the Bank will be beld at its banking housa, in this city, on MONDAY, the ath of OC.
sy order of the Board
JAMES ELLIOT,
General Manager,
Montreal.

The Chartered Banks.

## THE ROYAL BANK OF CANADA.

## Capital Paid-up, <br> Reserve Fund, <br> $\$ 2,000,000$

board of draectors:
Thos. E. Kenny, Einq., - Prealdent. Thomas Ritchie, Esq., - Vice-Prealdent.
Wiley Smith, Esq., H. G. Beuld, Esq., Hon. David MacKeen.
head office: halifax, N.s.
E. L. Pease, General Manager (Omfle of the GenBranches, Montres1, W. F. Brock, Inspector, Montesi.
Antigonish, N.S.
Bathurst,
Bridgewater, N. s .
Caraquet. N. B. Charlottetown, P.E.I
Dalhoneie, N. $B$
Dorchester, N.B.B.
Fredericton, N.B.
Grand Forks, B.C.
Guysboro, N.S.
Halifax, i.s.
Londonderry, N.S.
Lowisburg, C.B.
Lanenburg, N.S.
Moncton, N.B.
Ioncton, N.B.
Montreal, West End.
Nanaimo, B.C.

## Newcastle, N.B

Ottawa, Ont.
Port Hawkesbury, N.S.
Rexton. N.B.
Rossland, B.C.
St. John, N.B
Shubenacadie, N. 8
St. John's, Nfid.
Summerside, P.E.I.
Sydney, O.B.
Truro, N.S.
Vancouver, B.O
Vancouver, B.O.
Vancouver, East End, B O. Victoria, B.O.
Westmount, P.Q.
Weymouth, N.S.
Woodstock,
Nelson, B.C.
Agencies in Havana, Ouba; New York, IV.Y.; and
Republic, WashIngton.
CORRESPONDENTS:
Great Britain, Bank of Scotland. France, Credit Lyonnais. Germany, Deutsche Bank. Spain, Credit Lyonnais. Ohina and Japan, Hong Kong Nationgal Bank. Boston, Nation. New York, Ohase Chicago, Illinois Trust and Savings Bank. Elan Franclacn. Nevads National Bavk. Portland, Ore., FYrst National Bank. Seattle, Washington Na: tional Bank. Spokane, Exchange National Bank.

## ST. STEPHEN'S BANK.

Incorporated 1836.
St. Stephen, N.B.
Capital,

## 200,800 45,000

F. H. TODD

London-Mesgrs. Glynn, Mills, Currie \& Oo. New York-Bank of New York, N.B.A. Boston-Globe National Bank. Montreal-Bank of Montreal. $8 t$. John, N.B.-Bank of Montreal.
Drafts issued on any branch of the Bank of Montreal.

## WESTERN BATK OR CANADA.

DIVIDEND No. 40.

Notice is hereby given that a dividend of Thre ${ }^{e}$ snd One half per cent. has been declared upon the Paid-np Capital stock of the Bank, for the current six monthe, heing at the rate of seven per cent. per snnum, and that the same will be due sand payable on and after

WEDNESDAY, 1st day of OCTOBER, 1902 ,
at the Offices of the Bank. The Transfer Books
will be closed from the 15th to the 30th of Sep will be closed from the 15th to the 30th of September, prnxo.

By order of the Board,
T. H. MoMILLAN,

Oshawa, August 27th. 1902.


## The Chartered Banks.

## THE CANADIAN

BANK OF COMMERCE Paid-tup Hapittal,
Reation

| Toronso. |
| :---: |
| $-\quad 88$ | $\$ 8,000,000$

$2,000,000$ President. Hom. GEO. A. COX CIRRORS:

 Frederlc Nichol1, L : Melvin Jones,
B. K. WALKERR, General Manger J. H. PLUMMMFR, Ass't General Manager. $B R A N E H E S$ O $O F^{\prime} T H R B A N K$ IN CANADA.
 Belleville Dunvile Parls
Berlin
Dort FrancesParkhill
Toranto Berlin
Blenhelm
Galt
 $\begin{array}{lll}\text { Cayuga } & \text { Guelph } & \text { Sticathrin's Walkervill } \\ \text { Chatham } & \text { Hampliton Sarnis } & \text { Waterloo }\end{array}$
 Dresden Orangeville Seaforth Windsor
 Mantresi, Winnipeg Dawson, White Horse. Athin Greenwood, Brivelson Sandon,
Vancon Cranbrook, Kamloops, NewWestminster, Vancouve London, 60 Lombard Sto, R.C.,S. S. C. Alexander, Mgr New York, San Francisco. Cal.; Portland, Ore.; Seattle, Wash, Skagway, Alaska
The Bank of Scotland, London; Lloyde Bank,
 nais, Paris ; Messrs Lazard Freres \& Cle, Paris. Germany - Dentsche Bank. Holland - Disconto Mastschapply, Rotterdam. Belgium-Jo Londres y Mexilo. Wrussels. Mexice ston, Jamaica Colonial Bank and Branches. Bermuda-B8nk of $B \rightarrow$ muda, Hamilton, South America-Britigh Bank of South America, London and Brazilian Bank. India, China and JavanChartered Bank of India, Anstralie \& China. South Arica-Standard Bank of South Africa, New Zea-
 of Austranasta. Honolulu-First National Bank
of Hawail, Bighop \& Co.
Traders Bank of Canada
(Incorporated by Act of Parliament 1885).
$1,350,000$
aspltal Psid Up, Capital Paid Up,
Reserve Fand,

350,000
Board of Directors:
Prestdent
C. D. Warren, Gsq. Vice-President

John Drynan, Isq. C. Kyomprer, Esq. M.P.
w. S. Wricox, Esq., Hamilton.

Head Omice,
S. RTRATHY,
A. M. ALLEX,
branobiäs :

| ar, Ont. | ${ }_{\text {Gquelph }}^{\text {graik }}$ | Rodney, |
| :---: | :---: | :---: |
| lmer, | Hamilito, | Sarnia, |
| tor |  |  |
| rling | Lesmin | Strathroy, |
| Drayton, | Newcsstl North B | argeon F |
| Pimira, | Or | Stdb |
|  | Port Hope, | W'indsor |
| Grand Valley, | Ridgetown |  |

Great Britain-The Nationsl Bank of Scotland. New York-The American Rixchange Nat. Benk.
Montreal-The Quebec Bank.

## BANOUE D'HOCHELAGA. Capital Subscribed, Capltal Paid-up, Reserve Fund, <br> \$1,999.700

## F. X, Sr. Charles, Direotors, Biokibrdise

 President,Hon. J. D. Rolland, J. A. Vaille, Vice-Preart, Esq.,
M. J. A. Prand Alphonse Turcotte, Eeq.'1 Manager
M. J. A. Prendergast,
C. A. Grboux,
R. A. BERTRAND,
O. Branches-Joliette, Dormer M̈ Montreal. Brancorss-Joliette, P.Q.St. Jerome, P. Q. Montresl
Lonisville, P. Q. Henry, Louisville, P.
Sher, P.Q. ${ }^{\text {Sillerfoke, }} \mathbf{~ P . Q . ~}$
P.Q. 3t. Henry, St, Catherine "

Villeyfipld. $P$
Q.

17517 Notre Dame " Hochelaga.
Winnipeg, Msi Ont. Three Rivers, P.Q. Correspondents-Nati'sl Park Bank, Nat'l Bank of N. America, Nat'1 City Bank, Importers \& Tra-
ders' Natlonal Bank, Mchts Nationsl Bank, MM. dors' National Bank, Mchts Nationsi Bank, Hach, Ickelheimer \& Co., MM. Konntze Brothers, New York Internationsl Trust Co., Nationsl Bank oflRedemption, National ShawmutBank, Boston, Philadelphia National Bank, The Fourth Street National Bank,
Philadelphis, National Live Stock Bank, rlinots Trust and Savings Bank, Chtcago. The Clydesdale Trust and Savings Bank, Chicago, (Itme Parls, Credit Industrlel \& Commerclai, Comptoir Nationsl d'Escompte de Paris, London, Kng. Credit Lyonnais, Société Générale, Crédit Industriel \& Commercial, Comptolr National d'Escompte de Paris, Paris,
 Briv. des Pays Autrichiens, Holland,

## The Chartered Banks.

## BANK OF HAMILTON.

## Capitar paid up Regerve Furd

HHAD OFFIOE
EAMIITTON.
BANK OF NOVA SCOTIA. Capital Paid-up................ \&8,000,000.00 Head Offlee, - HALIFAX, N.S.

Directors

TOHN ETPART,

Directors

A. G. RAMSAT

Preaident
John Proctor, Geo Rosch, Whe Wreson,
J. TURNBULL General Manager,
H. S. STEVEN, Asst. General Manager.

Beamsville, Berlin,
Blyth.
Brantford, Ont.
Brantford, Ont.
Brandon, Man. Carman, Man. Chesley, Delhi, Dundalk, Dundas, Georgetown, Gorrie,
Grimsby. Hagersvile, Ont. Hamilton, F. Find. Owen Sound, Hamilton, Pilmerston.

> Barton St Plot Mound

British Correspondents: - National Provincial
Benk of Fingland [Ltd. 1 London. Bank of England [Ltd.] London.
American Corresponaents:-New York-Fourth National Bk. 8nd Hanct Bos Bk Bank. Chicago- Union National Bank. DetroitDetroit National Bank. Kansas Vity-National Bank of Commerce. St. Louis-National Bank of Commerce.

## THE DOMINION BANK.

## Capital, $82,500,000$ I Reserve Fund, $\$ 2,500,000$

## T OGLTP DIRECTOR <br> 

 Wm . Ince, Thmothy Eaton, W. R. Brock, M.P. A. W. Austin James J. Foy, K.C., MP.P. Branches.-Brampton, Belleville, Cobourg, Gravenhurst, Grilis, Sesforth. Uxbridge, Whitby, Toronto, Queen St. W. cor, Esther: Dundas St.; cor. Queen; Spadina Ave, cor. College St. ; Sherbourne St., cor. Queen: Market Branch, cor, King and Jsrvis Sts ; Montresl, Que. ; Stanstead, Que, Drafts on all parts of the United States, Great Britain and the Continent of Europe bought and sold. Letters of Credit issand avaisble in ain
## Eastern Townshins Bank.

## Capital Anthorizea <br> (Establ

AGENGIES: Hamiota. Man. . Plam Coulee, Jarvia Listowel, Lacknow
Maniton, Man Maniton, Man
Milton. Mitchell. Rolard. Man. Rolara, Man.
Sapkatoon,N.w.t Simcor. Stnnewall. M.,
Aouthampton, Teeswater, MooseJs. Toronto, Toronto,
Vancoaver, er, B C. ingham. Winnipeg, Man. Man.

. In Manitobs-Winnipeg,
In Newfonndland-St. Joh In West Indiles-Kingston, Jsmaics.

## THE QUEBEC BANK.

## HFAD OFFICE, - - - QUHBEC

 Founded 1818. Incormo rated 1822.CAPITAL AUTHORISED $\$ \$ 3,000,000$ PAID-UP . . 2,500,000
REST - DIRRCTORS : President.
JOHN BREAKFY, JOHN T ROSS, Gaspard Lemolne, W. A. Marsh, Vesey Boswell, THOMA $\dot{\text { S MODOUGALL, Edson Kitch }}$
Quebec, St, Peter St. Branches, Pembroke Ont
Quec, Upper Town. Pembroke Ont
do Thorola, Ont.
do St Row
Montreal, St. James St. Three Rivers, Que.
Montreal, St. Jamee St. Ther
do
St.Catherine St. F. Shawene Ont.
Ottawa, Ont. $\quad$ St. George, Besice, St. Romuald, Que. St. Heorge, Beance, Q Thetford Mines, Qu

Agents. Victoriaville, Que.
London, Eing., Brnk of Scotland, Boston,

New Yationsl Bk, of the Republic | New York, U.S.A. Agts. Bk, of Brit. North Amer |
| :---: |
| do |

HALIFAX BANKING CO
Capital Paidu-Up,
$\$ 600,000$
800,000


JOHN MAONAB, W. J. G. THOMSON. W. N. WTOKWIRE
H. N. WATMAGE,

Branorise-Nova Scotia: Halliax, Amherst, An tigonisj, Barrington, Bridgewater, Canning, Locke boro, Shelburne, Springhin New Glasgow, Parrs New Branswick:'Sackville, St. John. Windsor. Bank and Branches. Nominion of Can, Mork-Fourth National Bank and Branches. New York-Fourth Nationas
Bank, Botion-Snfolk National Bank London.
UNION BANK OF OANADA Capital Paid-up. - $\quad$ - $\quad$ 22.000.000 HEAD OFFICE,

Board of Directors.
A wDerew Thoysow, Risq.
How, Jomi Sharples,
HoN. JoMn SHARPLEs,
E. J. Vice-

पUBE

Ed. Glroax, Esq. - Wm, Shsw Esq.
R. R. Webb, Wm. Price, Req.
J. G. Bllett, Cen, Manager
F. W. S. Crispo,
H. B. Shaw,

The BANK OF OTTAWA.
Capital (Fully paid up) $\$ 2,000,000$
$1,765,000$ Rest,

BOARD OF DIRECTORE

## CHARLES MAGE GEORGE HAY, <br> President, Vice-President

Hon. Geo, Bryson, Alex. Fraser, John Mather, HAAD MacLaren, Denis Murphy,
Geo. Burn, Gen. Mgr.- D. M. Finnir, Ottawa Mgr,
Branches: Ontario-Alexandris, Arnprior, Avonmore, Bracebridge, Carleton Place, Cobden, Hawkesbury, Keewatin, Kemptine, Lareet Ridean St. So, Ottawa, St., Somersenfrew, Smith's Falle. Toronto, VankPortage, Rell, Winchester. Quebec.-Granby, Hnll, La chute. Montreal. Shawinigan Fallis.
AGFNTS IN CANADA.-BANK OF MONTREAL FOREIGN AGENTS. - New York. The Agents Rank of Montreal, National Bank of Commerce, of the Republic, Colonial National Bank, Msseachusetts National Bank. Chicago: Bank of Montresl. St. Panl: Merchanta Nationsi Bank London: Parr's Bank Limited. India, China and Japan: Chartered Bank of India, Australis and Japan
and Japan.
D. Watrrs, Chief Insp 'r. Gro. Sandirson, Insp'r. BRANCHES.
In Nova Scotla-Amheret, Annapolis, Bridgatown Dartmonth. Digby, Glace Bav, Granville Ferry Halifax, Rentville Liverpool, New Glasgow, North Sydney, Oxford, Parreboro, Picton, Pugwash, Stel larton. Westvile, Yarmouth
In New Brunswick-Campbellton, Chatham, Fredericton, Moncton. Newcestle. Port Elgln, St. John,
St Stephen, St. Andrews (sub. to St. Stephen), nssex. Woodetoc
P.EL. Island-Charlottetown and Summeralde $n$ Quebec-Montreal and Paspebiac

Ontario- Armprior, Berlin, Ottaws, Toronto, Reserve Fand

BOABD о DTRE゙OTORS:
Hon, M, H. Coorrank, N, Gsler, H, N. W. Thomse, G. Stevens, C. H. Kathan. H. B. Brown, K.C., HHAD OFEICH, EHERRBROOKE, Que. Branches: Province of Quebec., Montreal, Ws erloo, Cowsnsvil, Entingdon, Bedford, Magog St. Hyacinthe. Ormstown, Windsor Mills, ProVince of B.C.-Grand Forks. Fhonix.
Agents in Cansda, Bank of Montreal and Bran
Agents in London, Enge, Nationsi Bank of Agents in Soston, Nationsl Exchange Bank
gents in New York, National Park Bank.
Collections made at all accowalble points and remitted.

## Branches:

Alexandris, Ont.Indian Hd., Qriappelle
Altons. Msn
Arcols, N.W.T. Kemptville. Ont. (Station)N.w.T Arcols, N.W.T. Kemptville. Ont. Quebec, Que, w.
Birtle, Man. Killarney, Man. do St. Louls St Birtle, Msn, Killarney, M8n. do St. Louls
Botsevain, Msn. Lethbrlage, $\mathrm{N}, \mathrm{w} . \mathrm{T}$ Regins, N.W. Calgary, N.w.T. Macleod, N.w.T. Rapld City, Man
Carberry, Man. Maniton. Man. Cardston n.w.T. Medicire Hat. Shelbniney. Man. CarletonPlace, O. N. W.T Shelbnrne, Ont. Carman, Man. Merrickville, Unt Smith's Falle, $\mathbf{O}$
Cryatal City, M. Melita, Man. Souris, Man Crystal City, M. Melita, Man,
Deloraine, Man. Minnedosa, Man. Toronto, Man. Deloraine, Msn. Minnedoss, Msn. Toronto, Ont.
Edmonton N w.T Montreal, Que Virden, Man Glenboro, Man, Moosomln, N.w.т.Wawsness, Man Gretns, Man. Moose Jaw, N.w.T. W. Whartonesa, Man.
Ont. Hamiots, Man. Morden, Man. Winchester, Ont Hartney, Man. Neepaws, Man. Winnipeg, Man
Hastings, Ont.
Norwood, Ont. Wolsolen,
 Holland, Man. Pincher Creek,
London,

## Forelan Agents

Niverpool,
Now, Limited
New York,
Minneapolis
Nationsl Park Bank
National Bank of Commerce
St. Pani, - St. Psal Nationmerce
Great Falls, Mont. . Phrat National Bank
Buffalo, N. Y. Corn Exchange National Bank
Detroit, Mich.,
Plirat National Bank
Firat National Bank

John Y. Payzant Charles arohibald
R. L. Borden,

ORS.
President
Hector Molvirs.
H, C. McLizod, Gen Manar.
The Chartered Banks.

Imperial Bank of Canadan Capital (pald up). Rest
T. R. MGRRITY,
$84,000,000$
$\$ 2,500,000$ T. R. MsRrimi, W. m. Rameyy
T. Sutherland Staynes, FHas Rogers, Romert Jaurray
Rendrie HESAD OFFICE, TORONTO:
E. HAY, Assistant General Manager. W. Monfat, Chief Inspector $\frac{\text { branches in ontar }}{\text { Listowel }}$ Hergux, Galt, Hamilton,
Ingersoll, Listowel,
Niagara Falls, Niagara
Ottaws, Port Colborne,

St. Catharines
Sault Ste. Marie
St. Thomas, Rat Portage,

Toronto,
Welland,

Woodetock
BRAKOH IN OUEBEC.-Montreal.
BRAN OLER IN FORTH WEST $\triangle$ PD BRITYSH COLUMBIA. Brandon, Man. Prince Albert, Sask (algary, Alts. Ferguson, Alta. Golden, B.C. Revelstoke, B.C Revelstoke, B.C. Golden, B.C. Strathcona, Alts. Portage La Prairie, Man Victoria, Betalkiwin Alta Now York, Bank of Montreal, Bank of Limited, Sterling exche of America.
Sterling exchange bought and sold. Letters redit issued available in any part of the world.

## La Banque Nationale. FEAD OFFICH, QUWBEO.

Capital Authorized,
Oapital Subscribed,
$\$ 2,000,000,00$
1,487,970.00
lspital Paid-Up,
Reat
$1,455,398.00$
$850,000.00$
Undivided Proiltg,

$$
\begin{aligned}
& \text { B. AUDETVTE, President. } \\
& \text { A. B. Dupuis, Vice-President. } \\
& \text { Mon, Judge A. Chauvean, } \\
& \text { N. Rloux, } \\
& \text { V. Chater, Fortier, } \\
& \text { J. B. Lallbert. }
\end{aligned}
$$

P. Laprastos, Manager. N. . Lavors, Inspector


The Standard Bank of Canada Capital (authorized by Act of
Parliament - - \$2,000,000
 HBAD OFHICE, TORONTO.
W. F. COWAN, Preaident
F. Allen FRED. WYLD, Vice-Prebident T. R. W. Food, Allen, $\stackrel{\text { W. R. Johnston, }}{\text { A. Jomerville, }}$ W. Francis,

| ilsa Craig, | Cannington, |  |
| :---: | :---: | :---: |
| Bowmanville, | Chatham, | Markham, |
| Bradford | Colborne, | Parkdale, |
| Brantiord, | Durham, | n |
| Brighton, | Forest, | mo |

 Brassels, Harriston, Stouffille. Campbellford BANKERS
New York-importers and Traders Nationsi Bank, Montreal-Molsons Bank and Imperial Bank.
All banking businesa promptly attended to, Correspondence solicited. REID, Genersl Manager,

## 

DEVOTED TO
Manufacturing Mining Stock Enterprises.
ISSUED EUVERY FRRIDAY MORNING SUBTCRRIPTION.
Montreal Subscriber
Kall Subscribers to any other part of 88 a year British Subscribers,
American,
Single Coples,

## 82 a year E1 Stg.

Editorial and Business office
and 173 St. James Street
m. S. FOLEX, Bditor, Publisher and Propriator. manusoripta, , not undertake to return unueed The Ededtor cannot under any circumatancen un dertabe to return unused mamisent pts, or onter

## Ocean Steamships.

## DOMINON LIIE

Steamships.

## LIVERPOOL SERVICE.

From Portland.<br>Californian, Sept. 20<br>*Turcoman, Ock.

Rates of Pas
SaIoon- 865.00 and upwards according to Second'Saloon- $\$ 87.50$ and upwards according to steamer and service. Third Class- 826.00 to Liverpool, Londo
Londonderry, Belfast, Glasgow, Queenstown.
From Montreal.
From Boston.
*Manxman, Sept. ${ }_{\text {(From M }}$ 27.
Merion, Sept. $17 . . . .$.
New England, Sept. 24
Ottoman, Oct. 11

## NEW SERVICE.

BOSTON TO THE MEDITERRANEAN.
Cambroman, Sept. 27 ... Vancouver, Oct. 18. Midehtp saloons, electric light, spacions promensde decks
For further
the company, or to
DAVID TORRANCE \& CO.,
17 St. Sacrament Street.
General Agents, Montreal.

Loan Societies.

## THE

Certral LOAN Callada SAVINGS
Corner King and Victoria Streete, Toronto HON. GEO A. COX, President.

## INVESTMENT BONDS

Write us for particulers of
uovernment. Railroad
and Munlcipal
Bond Investments.
The Dominion Savings \& Investment Society Masonic Temple Buildine, London,

Canada.
Capital \&ubscribed
.. $\quad \$ 1,000,000$
Total Assete, 31 st Dec br, 1900
2,272,980 88
T. H. PURDOM, Ksq., K. C., President. NATHANIEL MILLS, Manager.

## JAMES MURRAY,

 of इT. JOEN'S, Nowfoundlend, GENERAL $*$ COMMISSION * AGENT. Rospectfully solicits trial consigamenta in the following lines of goods handled:Flour and Breadstaffs, Pork, Boof, and Geners Provisions, Sugar and Molassen, Mora scotis and P.IF.I. produce. Canadian preoduete of all kinds, Tess, Mannfactared Goods Propriotary
Fish, Oil and Newfoundlend Producte.

## Business Founded 1795, <br> American Bank Note Company,

78 to 86 TRINITY PLACE, NEW YORK. engravers and printere or
Bank Notes, Share Certifioates, Bords for Governmente and
Corporations, Drafts, Oheoks, Bills of Exchange,
Postage and Revenue Stamps from Steel Plates.
With Sperial Safeguards to Prevont Oountorfoithe JAMES A ACDONOUGH, Chairman.
THEO. A. AUGUSTUS D. SHEPAREDAND, Prealement.
WARRENL. GREEN, 2nd Vice-Pres.
OHNE. CURRIER Secretary


## Ocean Steamships.

## ALLAN LiNe

MONTREAL TO LIVERPOOL QUEBEC AND MOVILLE. ROYAL MAIL SERVICE.

NRW STEAMERS.
Tunisian, 10,575 Tons, Twin Screws. Bavarian, 10,375 Tons, Twin Sorews, Ionian, 10,000 Tons, Twin Screws. Corinthlan, 6226 Tons
Pretorian, 5800 Tons.
These are the largest, finest and fastest vessels ever built for the St. Lawrence route

## $\underset{\text { Liverpool }}{\text { From }}$

Liverdool Steamers. From From $28^{3}$ Aug....Parisian.... Sept. 13, Sept. 13. 4 Sept.... Numidian .... Sept. 20, 8ept, 20 11 Sept.... Tunisian.... Sept. 27, Sept. 27. 18 Sept.... Corinthian....... Oct. 4, Oct. 4. 25 Sept.... Pretorian...... Oct. 11, Oct. 11. 2 Oct..... Parisian....... Oct. 18, Oct. 18. The Saloons and Staterooms are in the central part whera least motion is felt, Filectricity is nsed at the command of the passengors, the lights belng night. Music roome and Bmoking room on the promenade deck. The Saloons and Staterooms are heated by steam,
RATESS OF PASSAGF.-Cabin: $\$ 65,00$ and upTickets. A reduction is made on Round Trip
8econd Cabin-To Livarpool, London or Lon-Steorage-To tiverne fast or Londonderry, Including every requisite for the voyage, $\$ 8.00$.
Clasgow, and How York Sorvice calling at Londonderry.
From New Pler foot of W. 21st Street, New York From Glasgow. From New York. 30 Aug..... Sardinfan.... 17 Sept., 10 a.m. 6 Sept....Lsurentian.... 24 Sept., 8 a.m. 13 Sept.... Mongoltan....... 1 Oct., 10 a.m.
Rates: First Oabin, \$45 to \$RO Single, 832.50 Singe Roturn. Second Cabin, B3a. 60 Single, 61.75 Return. Steersge
Glasgow, Belfast or Londonderry 86.00 , Ontiit for Steerage passengers furnished free. The Steamers employed on thene services are no surpassed for accommodation for all classes of
passengers. passengers.
For further information apply to
H. \& A. ALLAN,

55 Common St., Montreal.

## INVEST開ENTS.

Opportunities for safe investments in Canada, at 4 to 5 per cent. Corres pondence invited.

Address : INTEREST,
P.O. Box 576,

Montreal, Canada

## THE MOBT NUTRITIOUS.

## EPPS'S COCOA

Prepared from thefinest selected Cosoa, and distinguishod vierywhere for Deliosey of Plavour, Superior Quality, and highly Nutritive Propertiog. Sold in quarterpound tins, labolled JAMES EPPS \& Co., Ltd. Homosopathic Ohomistg, London,

Fingland.

## EPPS'S COCOA

BREAKPAST-SUPPER

## सНस

Ward Commercial Agency
Muconitlle Roports. Colloctions.

# T.\&R.LEES, =. $=$ * ENGINEERS 

## Improved Horizontal Steam Fngines (Class J.)

Constructed to work at a Steam Pressure up to 100 lbs . Fitted with Patent Automatic Piston Valve Expansion Geear ; the Cut-off being automatically adjusted by Governor.
These Engines are all fitted with our patent automatic Cut-off unde control of our patent high-speed Governor, giving a clear and positive cut-off. It regulates the Valve with great precision, and supplies the steam according to the varying load, effecting the greatest economy in steam, and great uniformity of speed. The working parts are easy of access throughout. This Apparatus is strongly recommended for driving Electrical Installations, Saw Mills, Corn Mills, Weaving Mills, Brickworks, and other trades where varying loads have to be contended with


## PLEASE INDENT THROUGH MERCHANTS

Pelograms : "LEES, HoLLIlWeob." Special estimates to Canadians under the new Preferential Tariff

J. R. MALLY \& CO., Patentees, $\begin{gathered}\substack{\text { showrooms snd Faotory: } \\ 15 \text { GOSWKLL ROAD, }} \\ \text { LONDON, E.C., FNGLAND. }\end{gathered}$ Speclal Terms to Canadians under the Now Tariff.

Telephone 320 Holborn.
Private Wire to Works. Established 1780.
 E.C.

ENGLAND.
GLASS FOR

Hotels,
Restaurants,
Confectioners,
Jewellers,
Chemists,
Architects,
Surveyors,

Engineers, Railways, Ships Fittings, Hospitals. Ironmongers, Fancy Dealers, Advertisers,
(Cuts will be inserted when received.)

## HIRRISON <br> KNITTING MAOHINES

Latest Improvements.
All sizes to work by Hand or Power.
KNITS STOCKINGS, SOCKS, and all kind of Knitted Garments In wOOL, SILK \& COTTON.


Good Buying Agents Wanted.
Harison Patent Kniting Mactine Con. Linited, 48 Upper Brook Street, MANCHESTER, Eng.


# Philipson \& Co.'s, 

# PATENT Combination Flat Stripping Brush 

(For Revolving Flat Card Engines.) With 1897 Improvements.

## This is the most efficient method of keeping Card

 Wire clean.
## Thousaads working in all parts of the textile world

 and giving the highest satisfaction.WOFRKS :
Bolton,

## England.

Legal Directory.

Price of Admission to this Directory is $\$ 10$ per annum.

NEW YORK STATE.
NEW YORK CITY .. . .David T. Davis (Counsellor and Attorney-at-Law)

Noble, Hasbrouck \& Davis

## ONTARIO.

ARNPRIOR .. .. .. Thompson \& Hunt ARTHUR .. . . . . . M. M. MacMartin AYLMER .. .. .. Miller \& Backhouse BARRTE . . .. .. . . . John Dickinson BELLEVILLE .. .. . . . . Geo. Denmark BLENHEIM . . .. .. . . R. L. Gosnell BOWMANVILLE. . R. Russell Loscombe BRANTFORD.. .. Wilkes \& Henderson BROCKVILLE .. ... Wood \& Stewart CAMPBELLFORD .. .. A. L. Colville CANNINGTON . . . . . . . . . . A. J. Reid CARLETON PLACE : Colin McIntosh DESERONTO . . . . Henry R. Bedford DURHAM . . . . . . . . . . .J. P. Telford GANANOQUE ........... J. C. Ross GODERICH . . . . .. . . . . E. N. Lewis HAMILTON..Lees, Hobson \& Stephens INGERSOLL. . . . . . . . . Thos. Wells IROQUOIS . A. E. Overell KEMPTVILLE . . . . . T. K. Allan LEAMINGTON . . . . . . W. T. Easton LINDSAY .. McLaughlin \& McDiarmid LINDSAY . . . . . . . Barron \& Steers LISTOWEL . . . . . . . . . . S. B. Morpiny MOUNT FOREST . . . . . W. C. Perry LONDON . . . . . . . . . W. H. Bartram LOORIGNAL . . . . . . . . . J. Maxwell MITCHELL . . . . . . Dent \& Thompson MORRISBURG . Johnston \& Bradfield NEWMARKET . . . . Thos. J. Robertson NTAGARA FALLS . . . . . Fred. W. Hill NORWOOD . . . . . . . T. M. Grover OAKVILLE . . . . . . . . R. S. Applebe ORANGEVILLE .. .. W. J. L. McKay OSHAWA .. .. .. .. J. F. Grierson OWEN SOUND .. ..... A. D. Creasor PETERBOROUGH .. Roger \& Bennet PETROLEA . . . . . . . H. J. Dawson PORT ARTHUR .. .. .. .. David Mills PORT ELGIN .. .. ...J. C. Dalrymple

Legal Directory.

> ONTARIO-Continued.

PORT HOPE . . . Chisholm \& Chisholm PORT HOPE . . . . . . . . . H. A. Ward PRESCOTT . . . . . F. J. French, K.C. SARNIA . . . . . .. .. .. .. A. Weir SAULT STE. MARIE,Elgin Myers, K.C. SHELBURNE . . .. . .John W. Douglas SMITH'S FALLS

Lavell, Farrell \& Lavell ST. CATHARINES, E.A. Lancaster,M.P. ST. MARY'S . . . . . . Armour W. Ford ST. THOMAS .. .. ..J. S. Robertson STRATFORD .MacPherson \& Davidson TRENTON . . MacLellan \& MacLellan TEESWATER .. .. John J. Stephens THORNBURY . . . . . . . ... T. H. Dyre TILSONBURG .. .. Dowler \& Sinclair TORONTO. . .. .. .. . . Roaf \& Roaf TORONTO .. Jones Bros. \& MoKenzie UXBRIDGE .. .. ...J. A. McGillivray VANKLEEK HILL,
F. W. Thistlethwaite

WATFORD . . Fitzgerald \& Fitzgerald WELLAND .. .. L. Clarke Raymond WINGHAM . . . . . . Myer \& Dickinson WINDSOR . Patterson, Murphy \& Sale WALKERTON ${ }^{\prime}$. . . . . . . . A. Collins WALKERTON .. .. .. Otto F. Klein

## QUEBEC.

BUCKINGHAM .. .. .. F. A. Baudry MONTMAGNY .. . . Albert J. Bender PERCE \& NEW CARLISLE,Jos. Garon RICHMOND .. .. Edward J. Bedard STANSTEAD .. Hon. M. F. Hackett SWEETSBURG .. . . F. X. A. Giroux WATERLOO . . . . . . . C. A. Nutting

## NOVA SCOTIA

AMHERST.. . . Townsinend \& Rogers ANNAPOLIS ROYAL . . H. D. Ruggles ANTIGONISH .. .. . A. Macgillivray BRIDGETOWN . T. D. Ruggles \& Sons BRIDGEWATER. Jas. A. McLean, K.C. KENTVILLE . . . . . . Roscoe \& Dunlop LUNENBURG.. .. .. ..S. A. Chesley PORT HOOD .. .. .. S. Macdonnell SYDNEY . . .. . . . . Crowe \& Burchall SYDNEY. C.B. . .MacEchen \& McCabe YARMOUTH .. .. E. H. Armstrong YARMOUTH .. Sandford H. Pelton

## Legal Directory.

## NEW BRUNSWICK.

CAMPBELLTON .. . .H. F. McLatchy EDMUNSTON . A. Rainsford Balloch HAMPTON . . . . . . A. Le B. Tweedie MONCTON .. .. .. Harvey Atkinson SUSSEX . . . . . . . . . White \& Allison

> PRINCE EDWARD ISLAAND.

CHARLOTTETOWN,
McLeod \& Bentley
CHARLOTTETOWN,
McLeod, Morson \& McQuarrie MANITOBA.

PILOT MOUND .. .. . . W. A. Donald SELKIRK .. . . .. .. .. James Heap WAWANESA .. . . . . Jos. H. Chambers BRITISH COLUMBIA.
NEW WESTMINSTER,
Morrison \& Dockrill ROSSLAND . . . . . .. P. McL. Forin

## NORTHWEST TERRITORY.

CALGARY .. .. Lougheed \& Bennett CALGARY .. .. MeCarthy \& Stuart EDMONTON .. .. Bown \& Robertson RED DEER, Alberta . Geo. W. Greene

Legal.


MacECHEN \& MacCabe, Barristers and Attorneys-at-Lans, Notaries Public, otta,
MacDonsld's Block, Sydiey,
Cape Breton, Nova, scotia.
Cape Breton, Nova 'Scotia.
Real Estate and Commercial Law
recelve Specisl Attention.

Legal.
G
BBONS, MULKRRN \& HARPER,
Barristers, Attorneys \&e.
olfce: Corner Richmond anc Carling sts.


TAJOIE \& LACOSTE,
A Adsocates
Provincial Building. $\quad 7$ Place d'Armes, Montreal,
H. Gerns-La joris, LLu.L., Paut Lacorys, LL.L.

Kingston, Ont.
CMYTHK \& LYON,
Barrieters, solicitors, acc.,


Seaforth, Ont.
MOCAUGERY HOLMASTED,
Barristers, do.

Lrondon, Ont.
W E. BARTRRAM, Bazrieter, Solicltor, Notary, dee. Office: 99 Dundas Byanmp wher

LAW WORK being one of our special ties, wo hope you will favor us with your patronage.

Jeurnal of Commerce, 171 8t. James Strest, Montrial.


## THOMAS BRIERLEY

Mining and Ventilating Engineer, MANUFACTURER

OLDHAM, ENG.
EXHAUSTING, VENTILATING and BLOWING

With all the Latest Improvements.


Reduced Price List on Applicatior.

## LUKE \& SPENCER, цимтTe,

## BROADHEATH, near MANCHESTER, ENGLAND.

Manufacturers of Grinding \& Polishing - MACHINES Emery Wheels, Etc.

Send for our New Enlarged Catalogue. Free on application.

Telegraphlc Address: "Emery, Manchester."


Note.-Buy Emery Wheels in Great Britain under the new Canadian Preferential Tariff, $33 \frac{1}{3}$ p.c. in their favor

BEST and CHEAPEST ADVERTISING MEDIUM.
Cheap Enough to give away.

## PATENT CORK SCREW



Any name or firm printed, on free of charge.
For Prices, \&c, Apply to
BECK \& POLLITZER, ${ }^{29}$ Upper Thames Street USEFUL AND ATTRACTIVE PRESENT


JAS, HAWLEY, Ltd., Defby Woind , LIVERPOOL, EMG, HAWLEY'S Box Nalling, Box Printing and Wood Wool Machines, Hawley's Box Printer, will print 3000 Box Boards $24 \times 14 \times 1 / 8$ to $1 / 4$ thlok, per hour.


Box Board Printing Machine.
Pricos will defy all competition. Strong and well finished Machine used by the Largest Manufacturers in England.

## "The Wellington Machine Company .

Engineers \& Machinists, Machine Specialists for Folding Box Makers Bookbinders, Printers, Manufacturing Stationers \&z., \&c.
Specialities:-Wellington Box Covering and Topping Machines. Wellington Rotary Cutting and Grooving Machines. Wellington Board Liner. Wellington Rotary Punches. All kinds of special Dies for Folding Boxes.

Works, Office and Showrooms:
Wellington Road,
STOCKPORT, Eng.
(Cut will be inserted as soon as recelved.)

## STEVENS \& Co

Warehouse:
322 Old Street, LONDON, E.C., Eng.
58 Charlotte Street, Old Street, Eng. GLaSS, LEAD, OILS, COLORS, BRUSHES, VARNISHES, SANITARY GOODS, Etc.

Silvered Bevelled Plate Glass, Silvered Plate Glass in Black Bead Frames, Plate Class for Shop Fronts, \&c.

## The JOHN L. CASSIDY CO, LItd,

 .....IMPORTERS OF....China, Crockery and Glassware, Frol all couirrils.

## 339, 341-343 St. Paul Street,

MONTREAL, Que., BRaMCHES-Othawa, Ont.: Winnipeg, Man; Victoria, Bote

Telegrams: "CHEMICALS, SHEFFIELD."
J. WILKINSON \& SON. ... Makers of....
Sulph uric, Murialle, Nitrice, Mitros and Fluoric Aclds.
Aqua-Fortis Strong Dipping Aoid (Brass and Silver.) Pure Cyanide of Potass. Liq. Ammonia Fort 880, and all Chemioals for Electro-plating. Chemically Pure Hydrochlorio, Nitric, Acetio and Sulphurio Acids.
Strong Hydro-Fiuoric Acle and Matting Acid for elass Decorating, Embossing Black. Peroxide of Hydrogen.
Tinsley Park Rd.,
SHEFFIELD, Eng
Telegraphic Address : "TANTIVY, London."
A.B.C. Code

TASMAN REFRIGERATOR CO, The Sole Makers of the Original

## "TASMAN" Refrigerator <br> Manufacturers of Special Designs of

CHEFS' REFRIGERATING CABINETS.


SUPPLIED TO
The Midland Ry. Co.
The Glasgow and South Wes. tern Railway Co.
The Grand Hotel Northum berland Av., London.
The Inns of Court Hotel, Holborn, Loadon.
The Horseshoe tenhatel, Tot tenham Court Rd., London. Approved by many Hotel managers and Leading Chefa
Particularly adapted for Hotels, Restanants, Hospitals and Infirmaries.
Enquiriles, Ftc., and Orders,
through Merchante.
40 Baltio St., Golden Lane, LONDON, E.O., Eng. Epecial terms to Canadians under the New Tariff.

## JOHN <br> TANGYE, Patent Rotary Planer

FOR FLAT WORK, EQUAL TO BEST PLANING In $1 / 4$ to $x$ the Time.

LARGER SIZES IN HAND.

Works: CRUMPSALL VALE
Office: MINSHULL ST. Telegrams: LEVINSTEIN, Manchester
LEVINSTEIN, LIMITED, Manchester, Eng.
The Largest Colour Manufacturers in Great Britain Makers of the various Basic and Acld Colours for the Dyeing of Wool, Cotton, Silk, Jute, Leather, Paper, \&c.

Spidialitigs (Patentrd)
Dianol
Thionol
Blacks Browns \&c, Fast cotton Colours, dyed in one Bath.
lacks, Browns, Reds Crumpsall

Blues, Yellows, \&c... (For Wool and cealico Printing) Browns. Reds, \&c., Direct
Cotton Colours.

NAPHTHALINE and NITRONAPHTHALINE.
Naphthol and Naphtholsulphoacids.
Naphthylamine and Naphthylaminesulphoacids.
AMIDONAPHTHOLSULPHOACIDS.


## NCCLIURE \& WHTTFELD,

 STOCKPORT, ENGLAND. Mersey Dynamos and Motors.

Telegraphic Address:
" MOTORS, STOCKPORT."
Special Rates to Canadians under the New Tariff.

Telegrams:-"PNEUMATIC."
CYCLE FRAMES, FITTINGS and ACCESSORIES

THE
Universal Cyole Trading $\mathbf{C O}_{0}$ ийтвD.

Duke Street, LIVERPOOL. Eng.

TO


CHAS. DICKENS said :
"Money and GOODS are the BEST of references."

This is true of our CUTLERY and PLATE.
You want the Best References, therefore Stock
OUR WORLD - RENOWNED GOODS as they are the
STANDARD OF EXCELLENCE.
Pen and Pocket Knives, Carvers, Razors. Table Cutlery, Spoons, Salts, Cruets, Cabinets, Tea and Coffee Services, Fish Eaters, Desserts, Etc.,

IN EXTENSIVE Assortment.
Our goods are used by the Officers and Men of His Majesty's Pleet and Army.
This we submit to be a rellable test of the excellent quality of eur Goods.

Pleabe apply for Samples to
FRANK MILLS \& CO.,
(Contractore to the British Government),
Hanover Works, Division St., - SHEFFIELD, Eng,
Preston's Liverpool Distillery Company. ${ }^{Y}$.imited. $=$

Finest Grain spirlts.


Distillery: - - BANKHALL, SANDHILLS. Office : 4 India Buildings, Water Street, LIVERPOOL, Eng.,

## John Rigby \& Sons,

Salford, Manchester, Eng.,
Manufacturers
of. .
WIRE OF ALL DESCRIPTIONS.
SPECIALTIES :-Wire for Rivet,, Springa, Jaoquard and al classes of Machine Work. Tinned Mattress Wire and Weaving Wire, Brass Pinion and other sectional Wire.

## 

Maker of all kinds of MACHINERY for $\qquad$ Bleaching, Dyeing, Printing, and Finishing Works

Estimates Civen for Complete Works. AISO PRINTING MACHINES for SANITARY WALL PAPERS.

GARDEN ST. FOUNDRY, Ramsbottom, Manchester, England.


Manufactured for Canadians $331 / 3$ pur cent. cheaper than any other country, under the New Tariff.

EVERYTHING

In the line
af...

## JOB PRINTING

$\frac{\text { executed promptly }}{\text { at the office of the }}$
JOURNAL OF COMMERCE
171 St. James St., Montreal.

## William Partington,

ENGINEER, MACHINERY AND TOOL MERCHANT.

WAREHOUS" :
St. Simon Street,
Blackfria: Road.
salford. England.
Town Office: 49 DEANSGATE, MANCHESTERR, GNGILAND.

Telegrams : " WALKER-HODGETTS, SALFORD. "WATKER-HODGETTS

$$
\begin{aligned}
& \text { Multipolar } \\
& \text { Dynamos }
\end{aligned}
$$

## WALKER \& HODGETTS,



Manufacturing Electrical Engineers,
St. Simon's
Electrical Works
SALFORD
Manchester, England.

## Andessan's Palant Boring Bar and Bracket.

For use on Board Ships, Machinery Erecting and Boiler Shops, \&c.


THOMAS ANDERSON, M.I.M.E., 3 Derby road,
Canada Docks, - Liverpool, Eng,

Telegrams: "RUCW KIEY," SEEFEIELD.

## III.

Patent Piston Works

SHEFFIELD, ENGLAND


The Principal PISTON
MAKERS in England.

Inventors and Patentees of the Original BUCKLEY'S HELICAL SPRING COMPENSATING PISTON, which we have brought to perfection.
 hambura II. F. O. B. at Mancheater, under the new Preferential Tariff.

Telegraphio Address : "FERRO, LIVERPOOL."

## Railton \& Campbell's



Patent Corrugated and Ringed *. Ferd Water Pilters.

Patent Corrugated and Ringed Filter Por Marine sad Land Botlers.

Patent Expansive Stop-Valve and Patent Silent Ash Hoist.

Telegrams : $\left\{\begin{array}{l}\text { London, "Weighbeam" } \\ \text { Stroud, "Waller Brimscombe." }\end{array}\right.$

## Sanitary Ironwork \& Appliances

Cesspool Pumps, Vans, Hose Reels. \&c., as supplied to numerous Local Authorities and Public Institutions, \&c. Hygienic and other Airtight Na anhole and Inspection Covers. Fresh Air Inlets and Ventilating Gratings, as used by the School Boards for London, Birmingham, \&c.

$$
\begin{aligned}
& \text { IMPROVED GREASE TRAPS } \\
& \text { CAST IRON DISCONNECTORS, } \\
& 4 \mathrm{in} . \text { to } 12 \mathrm{ft} \text {. }
\end{aligned}
$$

Penstocks, Fiushing Gates, Tide Valves, ( 4 in . to 10 ft .) Water and Sewage Pumps with Steam, Gas or Oil Engines, as supplied to Corporations and Waterworks, Trapped Rain, Stable and Brewery Gulleys, Improved Concrete Mix ng Machinery.
 Works at STROUD, Cioucestershire.
Subje ct New Canadian Tariff.
Tel. Address : "Metal, Glasgow."

## WM. JACKS \& CO.,

23 Royal Exchange Sq., Glasgow, Scot
IRON, STEEL AND ORE MERCHANTS AND BROKERS, STEAMSHIP OWNERS AND BROKERS.

## Specialities :

Pig Iron Warrants. Pig Iron of all kinds. Steel and Iron Plates, Angles, Bars, Rails, \&c., Cold Blast Iron, Ferro-Man-
ganese, and Spiegeleisen, Iron Ores, Manganiferous Iron
Ores, Copper, Tin, Lead, Spelter, Antimony, \&c.
Cast-Iron Pipes, Gas and Boiler Tubes, Fire Bricks and Clay, Coal and Coke.
Daily and Weekly Reports of the Iron and Metal Markets, with Statistics of Stocks and Shipments.

## O'Coninores

 PATENT DOUBLE ACTION Soring Binges for Swing Doors, OBTAINED THE GOLD MEDAL AT LIVERPOOL EXHILBITION.Price Lists and particulars on application to

## O'CONNOR, LIMNITED

Wavertree, Liverpool, England.


HARFIELD \& CO., LONDON, Eng.
Patent Steam Engine Windlass, with Manual Levers, Compound Brakes and Frictional Connectors, and Reversing Action. (Cables leading tn underside and paying down through Pipes in Side Standards into Lockers underneath.) Special terma to Canadians under the New Tarif.

## Gerrge Spencer, Moulton \& $\mathrm{C}_{0}$, Limitied

 77 Cannon St., London, E.C., Eng.And Bradford-on-Avon, Wilts.

## MECHANICAL ENGINEERS FOR INDIA RUBBER APPLICATIONS,

 Manufacturers of Patent India Rubber Buffer and Draw Springs.Fibrous Steam Packing, Hose Pipes, and all kinds of India Rubber Articles for Railway and other Mechanical Purposes.

SOLE LICENSEES FOR A. G. SPENCER'S PATENT BUFFER AND DRAW SPRINGS. SOLE LICENSEES FOR ANDERSON'S PATENT VENTILATORS FOR RAILWAY CARRIAGES.

## Establlsinied 1879 . <br> John Thompson \& Co..

The Real Non-Conducting Composition, Asbestos, Silicate Gotton (Slag Wool).
MAGNESIA MOULDED PIPE SECTIONS.
 Dealers in Red and Black Varnish.
Thersands oz Pelerences and Testimonials on Appllication. John Thompson \& $\mathrm{Cl}_{\mathrm{n}}$

## ALBION PLACE, RUSSELL ST.,

 ASHTON-UNDER-LYNE, England. Supplled to Canadians under the New Tarlff.New York Mill, Heywood, England, Aug, 6th 1901.-Mr. J. Thompson.- Dear Sir,-"This is to certify that you have covered our High and Intermediate Cylinders with Silicate of Cotton, and a finishing coat of your own Composition two inches thick, and I am pleased to say it is very satisfactory, and one of the coolest non-conductors I have ever experienced. We are working at a pressure of 180 lbs. The Pipes which you have covered with Sectional Magnesia are also very satisfactory."

Yours respectfully, J. W. HEYwood, Manager.

STEAMING BOXES. LOGWOOD STILLS. BLEACHING KIERS. STEAM CASED PANS.



## F. S. Cooper,

Dolphin Foundry,
74 : 76 CHPPEL St., allcoats,

Manchester, Eng.

Tanks made suitable for shipment and riveting up abroad.
...Soda Fountains...
Of Best English Make. Under the New Tariff.


We make a specialty of this article, and manufacture ourselves the latest improvements, which are secured to us by our own patents. FULL PARTICULARS ON APPLICATION.
Soda Water Machines for Filling Syphons and Ball Stoppered Battles.
Our new designs have great advantages. Particulars free. BOTTLING, CORKING, BOTTLE WASHING and CAPSULING MACHINERY in great variety and of latest design. Catalogue free.
J. P. IACHESTN \& COog 63 Duke 3t., LIVERPOOL, Eng.

## P. MARSH \& SONS, SACK and BAG

Manufacturers and Importers.


Brunswick St., - LIVERPOOL. Eng.

\title{

Sugars are Cheap

\section*{AND THE BEST

## AND THE BEST ARE THE CHEAPEST.

Ask For and See That You Get ..

## Rechath

"EXTRA GRANULATED"
And other Grades of Refined, which are of the Highest Quality and Purity.

## THE CAIIDAA SUGAR REFIIIIIG CO, Linited,



Individual Evening Instruction.

## ON

Wonday, Wodnesday and Friday Wvoning" AT

Book-keeping, Arithmetio, Penmanship, Shorthand, Type-writing, Correspondence English, French, Civil Service, eto. Students seleot their subjeots and are taught separately by nine axpert teachers. Write, oall or telephone Main 2890 for Prospectus and new price list, Address,

> J. D. DAVIS,

48 Vietoria Bq.iMontreal

New Hair-Dressing Establishment and Barber Shop
in The
...BELLEVUE APARTMENTS .. (FOLEY FLATS)

Mr. Peter Harvey, for the last nine or ten years favorably known to the patrons of Marien's, on St. Catherine Street, has opened a FIrst-class

## Hair-Dressing Establishment

in the Bellevue Apartments Building, Metcalfe and St. Catherine Streets and Dominion Square, Modern imprevements, skilled workmen, personal super vision.

liflifPatent Travelling Bisouit Ovens, Patent Biscuit Outting Machines, Patent Bisouit Mixors, Patent Biscuit Brakes, Patent Meohanioal Stokers, Fuel Elevators Conveyors, \&oc. System is Used Throughout the World,

## ESTABLIBHED 1849.

## T. \& T. VICARS

EARLESTOWN, LANCASHIRE, ENGLAND

Telegraphic Address, "Etclipse Manchestero"

## The Palaine Glass Co'r, Ltod,

St. Simon St.,
SALFORD, Manchester, Eng.

... Makers of ..
Plain, Enamelled, and Ruby Stripe Gauge Glasses.


The Best House in the OLD COUNTRY -For-
PICKLES, SAUCE \& TABLE SALT, IS . .

## W. H. FLETT, Ltd.

 ALVINA WORKS, Liverpool, Eng.```
Write for Price Llst
```


## Hazleruood \& Sons,

Manufacturers of
Blues for Finishing Cloth, Prints, Paper, Silks, Woollens or Yarns.
(Warranted to stand every description of Finish.)
Makers of Extracts of Indigo for Dyers, and dealers in Indigo, Smalts, Ultramarine and Bronze.

NELSON WORKS, NRW LANE,
Patricroft, near Manchester, ENGLAND.
A. B.C. Code.

## John Tetlow \& Sons, timiteo

Devonshire Street, Hyde Road, - MANCHESTER, Eng.Sanitary Pipes, Junctions, Bends, Gullies, Intercept rrs, Sinks Wall Coping, Accrington Bricks, Ruabon Bricks, Staffordshire Bricks, Special Salt Glazed and Enamelled Bricks, Velinheli, Bangor and Panhryn Slates, Slate and Plaster Laths, Ackworth, Morley and Halifax Stone in the Rough or Worked, Flage, Setts and Curbs Lias Lime.
Speclality:

Tetlow's Tested Sewer Pipes. Portland Gement.
Special prices to Canadian builders under the New Tariff, F.O.B.
Manchester.
Have supplied the Maychester Corporation for several years.
Telegrams:-MEADOWS, SHEFFIELD.
C. Meadows \& $\mathrm{Co}_{0}$. Ltd. Steel Manufacturers, Forgers, Tilters and Rollers.

Alliance Forge \& Rolling Mills.
ATTEROLIFFE Nr. Broughton Lane Station, Great Central Ky SHEFFIELD, England.
"Every Factory in Canada should "use the best Belting. Our "EXTRA" brand.

## Ihe J. C. Mclaren Belting Co.

 FACTORY:MONTREAL, TORONTO, VAMCOUVER,
"TORPEDO, LIVERPOOL."

## De LACY BROS.,

Electrical
And
General Inngineers,

Showrooms and Works:

> 58 Oldhall Street, LIVERPOOL, Eng.

Speciality: ORGAN BLOWING MACHINERY, Electric, Gas, Hydraulic.

PEMBERTON \& CO., Loom Makers, \&c., $\begin{aligned} & \text { Waterloo Iron Works, } \\ & \text { BURNLEY, }\end{aligned}$


Natere MODERN HIGH-CLASS WEAVIIG MACHINERY
For Weaving every description of Cotton, silk and Woollen Goods (Plain and Fancy).

Measuring and Plaiting Machines, Cloth Presses, Twisting and Looming Frames, \&c.
$38 \frac{1}{3}$ per cent, in favor of Canadian Euyers under the New Tariff:
JOHN MORRISON \& SON,

## Plasterers \&

Contractors

Estlmates given for
PLASTERING, OEMENT WORK,
TTILING, ETO.——

ALSO $\qquad$


## PLASTIC MARBLE CO'Y,

JA.S. MORRISON, Proprletor. G. F. SIMPKIN, Manager.
Manufacturers
of . . .
Columns, Pilasters, Pedestals \& Dado work.

Sampies on view at Office.
Bear 110 Mansfield Street, Montreal, Que.

The Continental Incandescent Gas Light Co., Itd.,
$92,93,94,95$ \& 96 Bishopsgate St., Without, LONDON, E.C., Eng.


# Roger Brighouse, 

Contractor to His Majesty's Government

15 Sugar Lane, MANCHESTER, Eng.

Manufacturer of all kinds of


## Heald, Dobby \& Jacquard Cords a Speciality. COTTON DRIVING ROPES,



Also Hessians, Oil-Cloth and Waternroof Packind.
Special Prices to Canadians under the New Tariff


TO BE UP-TO-DATE, AND KEEP ABREAST OF THE TIMES

## YOU MUST

Know our Presses as the very latest Platen now in the market. A Machine calculated by Experts to meet any demands within the scope of the work of the Printer, and even outside that area. To be known to be realised.

Above Advertisement 10 N||l| 72 to 75 Turnmill Street,

## GUARANTEED <br> PURE <br> a. aco. POLISH

For Furniture, Pianos, Etc
The Finest Quallity in England, made Specially for Tropical Climates.
All kinds of Dil and Spirit Vannistes, Polishes and Stains.
Lacquers for Brass and Tin Goods for both Hot and Cold processes, In all Colors and Shades.

Special Bitumen Black Protective Varnish, for Iron-Wood, Ships' Bottoms, Barges \&c. It is Unequalled for resisting Damp, and' preserving Wood from decay, and Iron from Rusting ; for Wood or Iron Fencing theire is nothing better. It can be used with great suocess as a Stoving Enamel. We have estahlished a great reputation by the Excellenee and Uniformity of Quslity of all our Manufactures.

ADDRESS:

Ilustrated Catalogue and Price List ree on Application
$\int$ Special prices to Canadians under the New Tariff.

T. Kerfoot \& Co.

## MANUFACTURING PHARMACEUTICAL CHEMISTS

Makers of all kinds of


Medicated Lozenges and Jujubes, Bouquet Lozenges, Compressed Tablets, Pills, Liquorice Goods, Effervescible Preparations, Perfumes, Counter Adjuncts.

## ENQUIRIES SOLICITED.

LABORATORIES :
BAROSLEY VALE, nr: Aston-under-LVne, - ENIGLAND. And BARDSLEY HOUSE, 189 Holloway Rd., Lowdon, N. Eng.


## MONTREAL MERCHANTS AND MANUFACTURERS.

Awaings, Tents Tarpaulins, Flags, Etc Thon, Sonne......... 198 Commissioners 8t.

## Carpet Beating.

The City Carpet Beating Co.,
11 Hermine St. , H. N. Tabb, Mgr.

Dry Goods, Wholesale.
Alphonse Raofne \& Co. 840 \& 848 8t. Paul St


Oanadian Colored Ootton Mills

## Companv．

Oottonades，Tloginga，Denims，Awnings， Shirtinge，Flannelettes，Ginghams， Zephyra，skirtings，Dress Goods， Lawns，Cotton Blankets，Angolas， Yarns，\＆o．
Wholesale Trade only Bupplied．

D．MORRICE SONS CO．， AGENTS， Montreal and Toronto．

## bank printina．

## Journal of Commerce，

Tel．Main 238.
171 St．James Strest．

## STORAGE （FREE OR DK BOMD）

J．A．FINLAYSON， CUSTOM 8 BROKER，
418 to 417 St．Paul Street，Montreal Bell Trabphons Main $1303 \quad$ P．O．Bow csk．

## The Unity Wood \＆Iron Co．

 machinstr，row mat deass founders，Patent Temple Makers and Patentees，
Guy Foundry，Padiham，Lancashire，England．
We are the oldest Temple Makers in existence，and have taken out more Patents for Temples，and successful Improvements in Temples，than any other Firm．
PATHNT＂TRU开＂T円Mエエ五。
 With Steel Cap and Patent Adjustable Roller Bearers．

By far the best Roller Temple yet produced，and superseding Ring or Swiss Temples．Thou－ sands are now in use and are giving the greatest satisfaction．

Station Works，
Padiham，England．

## Gaverhill，Loarmont \＆Con，

Wholosale HARDWARE \＆METAL MERCHANTS， Caverhill＇s Buildings，St．Peter St．，
Largent and most eomplete atook of
MONTREAL．
SHMTIE EARDWARI in the Dominiom．

## Special 22 Rifile，Long Barrel．

AT LOW
PRICE．
AIR GUNS OF ALL KINDS，AIR PISTOLS， DARTS and SLUGS and all ACCESSORIES．

The Ironmonger＇s Cartridge Loaded with any
Powder at Lowest Prices． Purchasing in England，under the new tariff，from this firm．

## GEO．GONTHIER，

dell Tel．：－Main axis．Lecerniant \＆uclaber． soLe Reprasingtative for the Phovisos ois Qusesic of
The Accoment Andit is As maxareo Ch，It OF hew yome．
11 \＆ 17 Pleoe d＇Armes Hill，MONTREAL，QUB，

THE TMPROVED
Lancashire Steel Potato Peeler．
（A1so for Apples，Carrots，


Saves 1 lb ．of Vegetable in 6 lbs ．，and Work done in a quarter of the time． Sole Makers．
R．E．COLLIIIGWOOD，－Rochdale，Eng． Special prices to Canadians under the New Tarifi．

Kommercial oummang．

LEF Merchants，Mamufacturers and other usiness mon should bear in mind that the ＂Journal of Commerce＂will not accept ad－ sertisements through any agents not spseially in its employ．Its circulation－extonding to ull parts of the Dominion－renders it the best advertising medium in Canada－equal to all others combined，while its rates do not include heavy commissions．
－According to reports from all parts of England，the recent heavy rains fol－ lowing an exceptionally wet summer， have seriously damaged the crops．
－A London，Eng．，paper says a syn－ dicate with a capital of $\$ 50,000,000$ is being organized by the＂coal combine，＂ which proposes to purchase the Fife and Clyde Companies＇mines．
－A special general meeting of the shareholders of the Toronto Railway company has been called for October 6 th，to consider the new issue of $\$ 1,-$ 000,000 stock，which will bring the capi－ tal of the company up to $\$ 7,000,000$ ．
－Numerous branch banks are being opened at points in Manitoba and the west．The Dominion Bank has opened a branch at Brandon，and another at Carnduff，Assa．，while the Bank of Hamilton has opened a branch at Sas－ katoon，N．W．T．，and one at Rolland， Man．
－The following is a statement of the timber limits which have changed hands in the Ottawa Valley during the past year：－

Sale price． Mackie limits ．．．．．．．．．．．．$\$ 655,000$ Hill Co．＇s limits．．．．．．．． 700,000 Hurdman limits ．．．．．．．．． 100,000 Barnet Bryson limits．．．．．．100，000 Munro limits，Whitman Tp．．． 150,000
Sunio lim．t，Jock Piver．．．．225，000
Rideau Lumber Co．＇s limits，
Jock River．
200，000
Grand total．．．．．．．．．．$\$ 2,130,000$

# FERRRANTILTD. 

# Electrical Power Distribution and Transmission Appliances. 

## Engines,

Alternators,

## Switchgears

Can be furnished for Power or Lighting schemes. Write for descriptive pamphlets free on application.


1200 K. W. Ferranti Engine and Alternator.

## HOLLINWOOD, LANCASHIRE, <br> Eng.

We learn from Prescott, Mich., that the Hettinger saw mill, capable of cutting over three hundred thousand feet of pine per day, is to be removed to the Canadian side, in the Georgian Bay country, as the timber in this locality is nearly exhausted.
-Our correspondent at Carleton Pace, Ont., writes;-The small harness-making establishment of Thurow \& Co., consisting of George Thurlow, his son and wife, this week wound up business by making an assignment and then skipping out. The stock is small, being in value about $\$ 350$, with a chattel mortgage on same. The creditors will get nothing. Cause, want of push-except on the final move.-The crops in this section have been exceedingly abundant. Not better in twenty years.
-St. John's, Nfld., advices of recene date refer to the departure of E. M. Jackman, Colonial Minister of Finance, in the colonial cruiser Fiona, to visit the French shore and arrange for the establishment of Customs ports of entry at the stations where the French resort, in the hope that this will prevent French smuggling along that coast. This step is a part of the new colonial policy of enforcing the Customs laws against the French fishermen on the same lines as they are enforced against local residents.
-The receipts of the Toronto Railway Company for August amounted, according to the statement handed out by the City Treasurer, to $\$ 166,355.59$, and the city's percentage to $\$ 19,962.67$, the increase over August, 1901, being $\$ 9,-$ 836.67 in receipts and $\$ 2,545.11$ in percentage. The August receipts and percentages during the past five years were:-

|  | Receipts. | Percentages. |
| :---: | :---: | :---: |
| 1902.. | \$166,355.59 | \$19,962.67 |
| 1901.. | 156,518.92 | 17,417.56 |
| 1900.. | 139,353.20 | 13,935.32 |
| 1899.. | 125,791.50 | 12.579 .15 |
| 1898.. | 111,690.29 | 11,792.77 |

-Mr. Jos. Boivin, advocate and deputy provincial secretary of Quebec, has just completed a very useful little work of some 80 pages, containing the complete text of the 'Joint Stock Companies' Act' for the Province of Quebee in alternate pages of French and English. At a time when the Dominion Government has made so sweeping a change in joint stock companies' laws, Mr. Boivin's little work will doubtless meet with welcome from not only the profession but others interested in joint stock promoting. Mr. J. E. Vincent, of Quebec, is the publisher.
-A blue book just issued on the trade of India for the year ended March 31 shows that the imports amounted to$\$ 336,666,665$, an increase of $\$ 30,000,000$ over those of the preceding year. The exports were $\$ 440,000,000$, an increase of $\$ 60,000,000$. Commenting on these figures, the London Daily Mail says:- "Whatever faults the nation may be showing in the management of its home affairs, its governing capacity in Greater Britain remains unaffected. The reason for this may be that outside of England the principle that affairs must be conducted by the inexpert is frankly abandoned, and the direction of technical department is made over not to party politicians but to special cases."
-At the annual meeting of the Retail Merchants' Association of Canada, held in Toronto, the following were \&lected:-President, J. G. St. Leger, Toronto; vice-presidents, A. L. Geen of Belleville, B. G. Davis of Windsc; treasurer, W. D. Rogers, Toronto; secretary, E. M. Trowern, Toronto, re-elected. The resolutions passed included one urging that action be taken to secure a uniform retail store license fee, and others recommending that steps be taken to assure legislation providing for the abolition of the fee system in regard to the inspection of weights and measures; reduction of fees for the collection of debts in the Division Court; penalties for false advertising and stamping, and the proper assessment of departmental

## THOMAS MATTHEWS' PATENT

 DEEP-WELL AND BORE-HOLE PUMP.
#### Abstract

Specially Adapted for all Trades Requiring Large Quanties of Water. Bore Holes any Size and Depth. Consultations in respect to Water Supplies. Careful Analysis made of Water from Bore Holes, and Reports as to their Suitability for Manuacturing Purposes. IMPROVED TUBE-DRIVEN WELLS. MILLWRIGHTING, STEAM ENGINES of every description, \&c. Prompt Personal attention to Repairs and Breakdowns.


# Thomas Matthews, 

## Hydraulic Engineer,

Pendleton, Manchester, \& England.

stores. It was also decided to recommend that, as far as possible, merchants handle only Canadian goods.

With respect to the contracts for supplies for the army in South Africt a cablegram received by the Department of Trade and Commerce from the High Commissioner in London states that forms containing information upon which to base tenders will be forwarded by the first mail from Pretoria. The War Office has informed the High Commissioner that it is not possible to alter the date for receiving tenders. The date in question is October 1st, and as the forms referred to will scarcely reach Canada before then, Canadian firms will not be able to tender. It is to be regretted that when issuing the invitation for tenders the army officials in South Africa did not fix a later date for receiving them. Had they done so Canadian firms would have had time to gather full information and to compete for the contracts. As it is, they will have to stand aside.

The Liverpool and Bankhall Chemical Company's


The best and most effectual remedy for
Ticks, Lice, Maggots, Scab, FootRot, \&c.
Stimulates the growth and improves the quality of the Wool, does not stain or discolour it and ke eps the sheep in good healthy condition

It is also invaluable as a Wash for Cattle, Horses, Dogs, \&c., killing Farasites of all kinds, and curing Sores and Wounds.

This Dip is unsurpassed in quality and is offered at an
xtremely low price. Quotations given c.i.f. Canadian ports for large or small quantities.

## SOLE MAKERS:

TheLiverpool \& Bankhall Seed Crushing \& Chemical Co., Limited,
Liverpool,

The pulp export trade from Canada will be much smaller this year than for some time, but the manufacture of paper is increasing in proportion, reports the manager of a large pulp company. The reason is that last year dry weather in the United States, Norway and Sweden caused a drying up of wells, whereas this year they have plenty of water. Last year England looked to Canada for her pulp supply. This year she can get it in Norway and Sweden, while ehe United States can manufacture it at home. The big Canadian companies are all putting in apparatus to manufacture paper, instead of turning out pulp for export, as paper finds a more steady market. There is still, however, a large trade with England and the United States, and it is expected that the duty of 25 cents a ton imposed in virtue of the Dingley tariff to offset the bounty paid by the Province of Quebec will be removed.
-The total exports of the United States for the eight months ended. August 31 were $\$ 821,685,198$, against $\$ 939,-$ 329,341 for the same period last year. The imports were

Carbide Stores, Warehouse and Salesrooms :
GEORGE STREET, CHAPEL STREET, SALFORD, ENG.

## THE IMPERIAL "S. C." <br> Acetvlene - Gas - Company,



## HANSON, SCOTT \& CO., Ltd., <br> STOOKPORT. ENGLAND.

## Cotton Driving Ropes.


$\$ 614,165,387$, against $\$ 579,650756$ last year. The excess of xports uas $\$ 207,519,811$, against $\$ 359,678585$ last year. For this period the exports of breadstuffs from the United States amounted to $\$ 108,604,576$. For the same period of 1501 the total was $\$ 192,860,604$. The total exports of provisions were $\$ 109841,036$, against $\$ 124,977,173$ for the same pariod of the year before. Cattle and hogs were sent abroad to the value of $\$ 15,458,024$, while in 1901 the total was $\$ 24,718,408$. The exports of cotton for the twelve months ended August 31 consisted of $6,715,793$ bales, valued at $\$ 284,279,150$, against $6,639,931$ bales, valued at $\$ 317,816,429$, for the twelre months ended August 31, 1901. The exports of mineral oils were valued at $\$ 43,958,471$, against $\$ 45$,998,177. Corn, wheat and all other articles of breadstuffs showed a heavy falling off, that in corn being due to the short crop. Corn, for instance, had been sent abroad for the eight months ended August 31, 1901, to the value of $\$ 43,050,354$, while for the eight months of this year the total is $\$ 4,440,319$.
-Marconi, in an interview at Rome, is reported to have declared that he has completely solved the problem of sending wireless messages over a distance of 1,500 miles,
and that he is confident that communication between Eurcpe and America will be established in the immediate u'ure. He is to visit King Victor Emmanuel at Racconigi, P'edmont, Sept. 14. The King, the report declares, has placed the Italian war-ship Carlo Albert, at the disposal of Marconi, and the inventor will sail on board the Carlo Albert, within a few days for Cape Breton, N.S., where tests of his wireless telegraphy will be made between the Canadian and Italian stations.-Signor Galimberti, Minister of Posts and Telegraphs, and the officials of his department have examined a scheme submitted by Engineer Piscicelli for the establishment of an electrical postal service. The system proposes to transmit letters in aluminum boxes, travelling on overhead wires at the rate of 400 kilometres ( 248 miles) an hour. Thus a letter would go from Rome to Naples in 25 minutes, and from Rome to Paris in five hours. Signor Galimberti has appointed a technical commission to examine the system and report before experiments are made between Rome and Naples.
-The policy of municipal ownership and operation of street railways, says a London letter, is making rapid pro-


The Improved Long Saw Grinding Machine | A. Shardlow \& Co., Limited, |
| :---: |
| sheffield, |
| ENGLand. |



ESTABLIEHED 1869.

## Bottled Beer and Stout

 FOREXPORT.

The "Compass" Brand
Bass \& Co.'s Pale and Light Bitter Ales, and Guinness's Extra Foreign Stout.

Also Exporters of Mineral Waters Devonshire Cider and Specially Blended Scotch and Irish Whiskies, guaranteed Five Years old. Buy ing Agents wantedWest Coast Africa United States, Canada and Newfoundland.
W. E. JOHNSON \& CO.,

67-69 Leeds St., LIVERPOOL. Eng.

# DAVY BROTHERS 

 Limited.Thlmorams:
T" Metorars shefflele."
SHEFFIELD, England.

## High-Class Lancashire

 and Cornish Boilers Coal or Gas Fired, upto 200 lb . working Pressure.

IN the Manufacture of these Boilers, Hg draulic, Steam, and Pneumatic Machinery of the most modern construction is employed, and all Boilers are made to pass Insurance Inspection.
gress in the United Kingdom. Out of 213 undertakings, with a total mileage of 1,307 , about 100 , with a mileaga of 689 , belong to the local authorities. The tramways, owned by Birmingham, Edinburgh, Oldham and 24 other towns are leased, but the tendency is toward municipal operation. Birmingham is a good example of profitable leasing, but the corporation has decided to municipalize the service as the leases fall in. Edinburgh, with total renta's of $£ 57,660$, has a surplus profit of $£ 5230$ after sinking fund payments, but is having trouble with the companies. Tramways are operated as well as owned by 41 municipalities, and, as nearly all own their electric lighting supply, the introduction of electric traction is proceeding economically. The main objects of this policy are reduction of fares, symmetrical development of sub u:bs and the improvement of methods of traction, but when the investments required for equipment, construction accounts and purchase of private companies have been liquidated by the operation of sinking funds, the tramway service will be a large source of profit for the relief of taxpayers.
Glasgow had last year a balance of $£ 117,388$ from horse and electric traction, of which $£ 12,500$ went to the common good, and the remainder of which was required for interest, depreciation, general reserve and sinking fund. Liverpool had a balance of $£ 147,056$, of which $£ 16,045$ was available for the relief of taxpayers. Leeds had a gross profit of $£ 61,797$, and a surplus of $£ 31,058$, after payment of sinking fund and interest, $£ 21,058$ being applied for the relief of rates. Sheffield had a working balance of $£ 48,65 \%$, and $£ 10,000$ was transferred from the surplus account in relief of rates. The gross profits of other towns are: Bradford, £6,989; Aberdeen, $£ 8,769$; Blackburn, £ $£ 2,423$; Dover, $£ 2,948$; Halifax, $£ 9,076$; Southampton, $£ 11,940$, and Hull, $£ 23,000$.-Manchester, says the London letter from which the foregoing is taken, is in the transition stage, but will have in the course of a few years 150 miles of electric

MGPABLISHED 188\%. Telegrams:-"PNEUMATIO, Leeds." A Abeolutely the finest Motor Cycle made. Simplest to Manipulate. Euslest to Regulate. A perfectly baianced machine, ensuring easy eteering


THP Phe...inil MOTOR BICYCLE, HANUFAOTURED BY THEE

LEEDS MOTOR EXPERTS, WALKER BROS., "pRIM". Meanwood Road, LEEDS, Eng.
lines under municipal operation. London has a working balance of $£ 102,861$ from its northern and southern tramways, but it is absorbed by interest and sinking fund payment. Huddersfield is the only town having a deficit for working expenses, although Dundee barely balances its account. About fifty new schemes for the municipalization of tramways are now in progress.
-British trade journals, says a London letter, continue to comment on American enterprise in South Africa, and

Telegrams, "SHIPMAN, SHEFFIELD."
 SHEFFIELD,


- Eng.

Paragon Umbrella W re, Rope Wire, Needle Wire, Music Wire, Steel Wire of every Description.

# JOHN H. THOM, 

Canal Works, Patricroft, near Manchester, England.


Boring for Minerals, Oil, Brine, Etc.
Artesian Wells put down to any depth Manufacturer of
all kinds of Rock Boring Tools, Centrifugal, Deep Well \& Donkey Pumps.

Special Fistimates under the New Canadian Pre。 ferential Tariff.
the extent to which American machinery dominates the market. The Engineer says American firms at Johannesburg are completely supplanting the English firms at Cape Town, chiefly by carrying a large stock and making quick delivery. Recent advices from Johannesburg show that South Africa at present is the dearest place in the world to live. in. A correspondent writes that it is high time to sound a note of warning and check the premature influx of people, which promises to lead to great difficulties and serious distress. The worst sufferers, it is added, are women workers, teachers, typewriters, and shop-girls, who are met with the almost invariable reply that "no single women lodgers are admitted." Rents increase every month, and have nearly doubled since peace was declared. Families of moderate means have to spend from 40 to 50 per cent. of their incomes to secure the merest accommodation which decency requires The prices of all foods are exorbitant, and beer costs $\$ 1$ a bottle. In the meantime wages are about the same as before the war. The correspondent asserts that a clerk in London on a salary of $\$ 800$ a year is more fortunate than one in South Africa at $\$ 1,250$.

Ameriean initiative, says a London letter, has again led the way, this time by commencing a vigorous development of natural gas fields near London, which are larger than any known to exist in the United States. These fields were first tapped six years ago in Sussex, when railway men were boring deep for water. A year ago some Americans began serious investigations. They formed a company, which already has one bore hole 400 feet deep, and several others are being sunk. The work is proceeding night and day. The gas itself supplies both the light and power required. There is a pressure of 200 to the square inch, which is more than the working pressure of $\overline{m o s t}$ locomotives in this country. The pressure is found to rise steadily as the holes go deeper into the beds of the porous sandstone that cover the gas-bearing strata. The pressure is sufficient to carry gas to any of the large cities of England. The output from the deepest boring at Heathfield is 15,000000 cubic feet a day, or one-eighth of the total daily sale of gas in London. The company, which is called the Natural Gias Fields of England, has aequired the sole right to lay gas mains on all lines of the London and Brighton and South eastern, which are two of the chief railways in the south of England. Already

## Manganese

LUMP, FINE and GROUND.

## BVERITT \& CO.,

40 Ohapel Street, Liverpool, England.
a number of houses in Heathfield are lighted by natural gas.
-Industrial France, says a recent Paris letter, has its eyes directed this week toward Grienoble, where the "White Coal" congress is in session. The gathering consists of more than 600 members who have met to consider the possibilities for commercial purposes for the mountain torrents of France. The parties who started the movement have advised the congress that the decreasing coal supply throughout France need not cause the slightest alarm if money is forthcoming to develop the electrical riches offered by thousands of falling streams in neighborhoods already given over to manufactures and other industries. One of the most prominent members of the congress spent an entire year in the Pyrenees, and the result of his enquiries is detailed in documents setting forth the fabulous opportunities for the production of electricity in that region on a scale hitherto undreamed of. The documents in question are expected to constitute the principal feature in the meetings of the congress. M. Hanotaux, former Minister of Foreign Affairs, who presides over the assembly, made a statement in his inaugural address to the effect that only the development of the unbounded electrical power of the country could save France from coming under the heel of American commercial domina-

## THE TONI PNEUMATIC TYRE.

(Patent No, 26,555, 1898.)


IT IS the simplest and most easy tyre to attach or detach. Self gripping. It is manufactured of the very best material the English Market can offer. The Para rubber superfine is specially prepared to stand all extremes of climate It is fitted to CyclesMotor Cycles-Carriages of every description.

Eighteen Months' Guarantee with every Tyre.
F. TONI \& CO.,

20 HANWAY STREET WORKS, OXFORD STRREET,

# KIRK \＆CO．， <br> SHUTTLE <br> And Bobbin Makers and General MILL FURNISHERS。 

## SPECIALITIES．

SHUTTLES，Shuttle Pegs Oak－tanned PickingBands． Buffalo and Leather Pickers． Leather Bumpers，Strapping， etc．

Cob Wall Works， BLACKBURN，Eng．


Special Rates to Canadians under the New Preferential Tariff．

## BUTTERWORTH BROS．，Ltd，

Newton Heath Glass Works，MANOHESTER，Eng．
 INVIMCIBLE GAUGE GLASSES，both plain and enamelled．In sole use by the British Admiralty，recently tested to $5,000 \mathrm{lbs}$ ．to［］＂
Any kind of glass whatever used in machinery or applied to fittings．
The largest existing makers of GLASS TUBES for Gauge Glasses and the Electrical，Rabber and Brewer Trades，
GLASS NEEDLE LUBRICATORS and all other kinds of Labricators． Lamps for all purposes．
Present Contractors to H．M．Gov－ ernment．


Write for our lists of
Wlectrical Glass，Machinery Glass，Table
class，Ship Glass，Confectionery Glass，
Cut tand Fingraved Glass，Etc．，Fic．

Established 1861.
．Bootle Jute Factory Co．．Limited．． sprnens
AND．．．
MANUFACTURERS．


DUNDEE WORKS，
BootLE，Liverpool，Eng． ETelegrams，＂JUTE，Liverpool．＂ A．B．C．Code，4th Edition．
tion．＂In a few more years，＂said M．Hanotaux，＂the in－ exhaustible coal fields of America must be called into re－ quisition to feed the fires of the Old World．If France acts in time its position will become unique，and a new era of riches will dawn for one of the most favored countries under the sun．＂
－The sugar beet enterprise was given quite a＂send－off＂ at the Toronto Exhibition，where the varied growths，cul－ tivations，etc．，were ranged side by side with detailed ex－ planations as to the result，etc．，of the different methods of growth and cultivation．The exhibit was made under the direction of the Minister of Agriculture，by Prof． R．Harcourt，of the Ontario Agricultural College，Guelph， and proved both interesting and instructive，as evidenced by the large crowds who continually sought information from those in charge．There was on exhibit an ilustration plot，in which beets could be seen in full growth，having been sown there in April，beets about three weeks from

## E．SCHREIER，




Numbering，Dating and Perforating Machines． WRI＇E FOR PRICES．

Established 65 years．
Telegrams：＂SUBLIME，Liverpool．

## DESSICATED COCOANUT．

## JOHN SHOR\＃\＆SON， 39 Old Hall St．，

samples at your disposal．
Terms：Cash against B，Lading。

## PEPPER

2
All Ground Peppers Guaranteed absolutely Pure. Peppercorns, Shells and Broken, and every description for Export.

## GRINDERS

# Charles Johnson \& Coo., vicrorit mits. Liverpool, Eneland. AGENTS <br> John W. Bickle \& Creening, <br> HAMILTON, Canada. <br> Special Prices to Canadians under the New Tariff 

thinning, and another lot just ready to thin. The object was to show to those interested in the sugar-beet industry what the beets should look like when growing. Inside an adjoining building samples ware shown from the six expermental sections where beets are grown this year in an experimental way under Prof. Hareourt's direction. These districts are Brantford, Brussels, Orangeville, Markham, Guelph and St. Catharines. There were also beets shown representing the crops grown for the four factories that will be in operation this fall. One of the most instructive features was the exhibition of typically-shaped beets, and along side of them beets which had been improperly grown. The method of topping required by the sugar factories was also illustrated. Beets which have been improperly grown were shown to have fuily 30 per cent. of waste, while those properly grown had only 10 per cent. The display of implements used in the cultivation of sugar beets was instructive and complets, and interesting to those who tried to grow beets without pro-
per tools for their cultivation. The sugar beet industry has made rapid growth in Ontario. On consulting a chart hanging in the exhibit it is learned that while in 1900 but 600 acres of beets were grotwn in that Province, this year there are about 20,000 acres, and that four factories, with a total ability of using 2,200 tons of beets a day, will be in operation this fall. It is estimated that about $\$ 1,000,000$ will be paid to the farmers of Ontario for sugar beets this year.
-The long-expect d merger of the great packing interests of the United States, will, says a Chicago letter, go into active and open oparation Sept. 27, unless there should be an entirely unlooked-for change in the plans agreed upon by all those concerned in the deal at a late meeting. An industrial combination second only the the stes trust is, therefore, practically an accomplished fact. Reports concerning the actual terms of consolidation differ. The most reliable light shed upon the subject was

# Groves \& Whitnall, Ltd., BREWERS \& BOTTLERS, 

Regent Rd. Brewery, Globe Bottling Works, Salford, Eng. Salford, Eng.<br>Alexandra Brewery, Manchester, Eng.

[^0]

## These Engines are manufactured from 30 horse to 150 horse power under the new Canadian Preferential Tariff by

# RIM: Cmomillull 

## Limited.

## Hyde, nr. Manchfster,

ENGLAND.
the plan outlined by a Boston authority, who has pos sessed the most inside formation about the deal ever since its existence was first rumored in the early part of last spring. Accord ng to this expert, the new packing combine is to be capitalized at the rate of twenty-five times the last year's earnings of the constituent companies. For example, Cudahy \& Co. are said to have earned about $\$ 820,000$ in 1901, which would make their share of the capital stock of the merger $\$ 21,000,000$. A 4 per cent. dividend that the consolidation might be expected to declare would amount to $\$ 840,000$ on this lot of stock, approximately its legitimate earnings. On the basis of capitalization, Armour \& Co., whose last year's profits are supposed to have been about $\$ 8,000,000$, will receive $\$ 200$, 000,000 in the new securities in exchange for their business. Swift \& Co. will receive) $\$ 50000,000$, their net earnings for the past year probably not amounting to more than $\$ 2,000,000$, by reason of the fact that this concern does not own its subsidiary companies, such as car lines and selling agencies. Carrying out this method to the end, Schwarzchild \& Sulzburger Company would receive $\$ 26,-$ 000,000 . It is said that it is the undoubted determination of the consolidated meat interests to control all the packing houses and stock yards of the company, and save every possible dollar in the cost of manufacturing and distribution. In addition to this, all by-products will be absolutey controlled and efforts made to buy up industries that are closely allied to the meat business.
-We learn from Woodstock, Ont., that Prof. J. W. Robertson, Dominion Commissioner of Agriculture, met the district dairymen at the cheese board recently, in reference to the success of the cheese curing station, lately established by the Government there. He showed, after comparing cheese cured at the station and other cheese ured ordinary way, that makers could obtain with provision for curing at low temperatures fully one pound weight more of cheese per 100 pounds of milk, in addition
to the saving in shrinkage. The body of the cheese was rich $r$, the flavor milder and the appearance much better. The station had realized everything that was expected of it. It was a question whether the curing should be done by consolidated curing rooms or by improved curing rooms at the various factories. But, at any rate, it was necessary that the cheese should be cured at a temperature not exceeding 60 degrees in the summer months. If this rule were followed the industry would not experience that depressing effect which comes from the presence of stocks of heated cheese on the market. During the

## GEORGE SWIFT, Lta.,

Manufacturers or


## Tiles for Floor and Wall Decorations, Mosaics and Faience.

Swan Tile Works,
Liverpool E., Eng.

Special prices to Canadians under the New Tariff.

# AUSTIN \& DODSON, LIMITED, <br> Manufactureris of <br> Loco SPRING STEEL. <br> Spiral and Volute SPRING STEEL. Timmis's Section SPRING STEEL. SLEIGH SHOE STEEL. <br> <br> \section*{SPRING STEEL} <br> <br> \section*{SPRING STEEL} <br> TYRE STEEL. <br> TOE CAULK STEEL. <br> RAKE TOOTH STEEL <br> HARROW TINE STEEL. SPRING STEEL SHEETS. <br> Machinery and Agricultural Implement Steels in sections of every description, lists of which can be had on application. 

## Cambria Steel UZOrks,

next few months it was the intention of the department to publish full information in regard to the methods that should be followed in improving curing rooms. Mr. Thomas Ballaneyne of Stratford expressed the opinion that the difference affected by the curing rooms was most astonishing, and Mr. I. M. Steinhoff of the same city thought that the difference in the value of the July's was fully one and one-half cents a pound. Mr. R. A. Simester of Ingersoll characterized the object-lesson given as marking the greatest advance he had known in the cheese trade in twenty years. The department deserved the greatest possible eredit for what it had done.
-The announcement has been made by the Australian Premier, says a late Ottawa report, that the Australian triff has been agreed to, after a struggle of eleven months. When the tariff was introduced in the lower House objection was raised to it as being too protective, and some months were passed in scaling down the duties. Then the tariff went to the upper House, where the free traders have

LIGHT LIFUCARS.
BEST STHAM CAR ON THE MAREET HNGLISE-BUILT THROUGHOUT.

MADII IN THREE SIZES.


## FOUR-SEATED Double Phaeton,

## TWO-SEATED

with removable third seat, for doctors' use.

LIGHT VANS
To carry up to one ton.

> The Steam Car Co., House's System Limited. Regibtered Offiors
> 88 CHANCERY LANE, LONDON, W.C., Eng.
a majority of three out of 36 members. There further amendments were made, and the tariff was sent back to the House of Representatives. It now appears, from cablegrams received, that the popular Chamber agreed to minor changes made by the Senators, but refused to accept the modification of more important duties. The Senate, unwilling to force a dissolution of both Houses, thereupon gave in, and the fight over the tariff was ended. According to Mr. Chapman, the duties under the Commonwealth tariff will average about 17 per cent. The Government's majority in the popular Chamber on questions of general policy is about 14 in a House of 75 , but on tariff issues it dropped to six. Now that the tariff issue has been settled, Mr. Chapman thinks the Government following will be increased, since several members of the House are Bartonites except where the fiscal policy is concerned. The next important' matter for the Commonwealth Parliament to deal with will be the selection of a site for the national capital. The site once determined on, a commission will be appointed to investigate and report as to the character of the Legislative buildings to be erected. In all probability the Commission will visit Canada and the United
$\qquad$
FOR
Motors, Motor Accessories, Motor Fittings, Motor Parts,

Of Everý Possible Description, Write to the Oldest British Firm in the Trade.

## United Motor Industries, Llu.

 42 Great Castle St., LONDON, W., ENGLAND. Special Terms to Canadian Buyers.
# EDCAR ALLEN MANUFACTURERS OF <br> <br> BEST TOOL STEEL, 

 <br> <br> BEST TOOL STEEL,}

Crusher Jaws, Cams, Tappets, Heads, Machine-Moulded Gearing, Truck and Skip Wheels and Axles, Miners' Drill Steel, Steel Castings, Files, \&c.

## TURNER'S PATENT IRON-FIBRED STEEL.

States for the purpose of inspecting the public buildings. on this continent.

Telegrams: "MOTOR, LEYLAND," ENGLAND.

## HIIHEST AWAROS.

lst Prize, £100, Royal Agricultural Society of 1st Priza, £100, England.
Liverpool Self-Proyelled Traffic Association.
Gold Medal, Highest Award,
Liverpool 1900.
Etc., Etc., Etc.

## stan mbins.



## The Lancassirire

 Steam Motor Co., LEYLAND, ENGLAND.Especial prices to Canadians under the new preferemtial tarit.
-Washington authorities, it is reported, find a combination of coke and soft coal a satisfactory substitute for anthracite.
-It is reported by returning prospectors that oil in vast quantities has been discovered in Northern Athabaska, N.W.T.

Telephone: 5704, Bank. Telegraph: "Diluteness," London.
~2
THE

## Water Softening \& Purifying United

 Patents, LId.> Contractors to H.M. Government. 30 \& 31 St. Swithin's Lane, LONDON, E.G., Eng. USED BY
Home and Foreign Governments, Railway Companies (At Home and Abroad), Electric Generating Works, Engineering Works, Hydraulic Stations, Gunpowder Mills, Collieries, TelegraphWorks, Gold Mines, PaperWorks,ChemicalWorks, Cement Works, Flour Mills, Hotels, Hospitals, Schools and Colleges, Various Institutions, Laundries, Private Mansions, \&c., \&c.

Write for full Particulars to
FRANK H. TYACKE, G.E., Managing Director


## The Sizing Materials Company

Manufacturers of :all kinds of
Chemicals and Materials used by Warp Sizers and Finishers.

10 Massien St, - MAICHHESTER, Eng.

# THE STANDARD ASSURANCE CO. ${ }^{\text {Berlabugabd }}$ OF EDINBURGH 

HEAD OFFICE FOR CANADA, - MONTRIAL.

[World Wids Pohomen ]
Thirteen montha for revival of lapsed policies without medical cortificate of five yoarn' oxiatence. Loans advanced on mortgages and Debentures purchased. Agonts wanted.
D. M. MoGOUN, Manager.
J. HUTYON BALEOUR, Secretary.

LREADY this year's paid-for New Business in the CANADA LIFE ASSURANCE CO., exceeds by over $\$ \mathrm{I}, 000,000$ that of the same period in 1901, the record year of the Company in this respect.

INSURANCE COMPANIES placing orders for Printing should make it a point to get our figures before closing their Fall contracts, We have facilities for handling Insurance work to the best advantage and are thus enabled to give our customers the benefit. If you are interested in any way write, or come and see us,

JOURNAL OF COMMERCE JOB DEPT.,
171 St. James Street, MONTREAL.

## NORTHERN

ASSURANCE CO'Y. INCOMEAND FUND 1901


Capital and Accumulated Funds, :-: \$42,990,000
Annual Revenue from Fire and Life Premiums and from $\qquad$ $. .6,655,000$
Deposited with Dominion Government for the security of policyholders .......................... ..

Head Offices:-London and Aberdeen
Branch Office for Canada, Montreal, 1730 Notre Dame St.
Manager for Canada,-ROBERT W. TYRE.

PHCENIX
ASSURANGE CO'Y., Ltd, of London, ming.
Established in 170s, Canaritass Brasen Established im 2004,
H. 184 8t. James 8t. MONTRIAE, P. D. $^{\text {M }}$

## RSON \& SON,

 Agente for the Dominion City Agents :```
N. A. Whitehead & Oo,
A. Simard.
E. Lamontagne, S. Mondou. E. Lamontagne,
```

English Dept.

INSURANCE CO.
The Oldest Scottish Fire Office. Canadlan Head Office, mONTREAL.

## R. WILSON-SMITH

 FINANCIAL AGENW.Government, Municipal and Rallway seourities bought and sold. First olass securities suitable for Trust Funds always on hand. Trust Estates managed.

Standard Life Chamberb,
I5I ST, JAMES STREET, MONTREAL.

FIRE.
LIFE.
MARINE.
G. ROSS ROBERTSON \& SONS, General Insurance Agents and Brokers ESTABLIEHED 1865.

BELL TELEPHONE BUILDING, MONTREAL.
Telephone - Main 1277.
P. O. Box 994. Private Offloe, " 2822.

## THE CANADIAN

 Journal of Commerce.Montreal, Friday, September 19th, 1902.

UNION OF CANADIAN MUNICIPALITIES.
A session is being held in this city of the recently formed "Union of Canadian Municipalities. The objects of the association are, to bring about uniformity in the laws relating to municipal government, to watch over new legislation proposed affecting municipal interests. to organize a system for the joint issuance of debentures, and generally to promote whatever tends to the more efficient working of municipal machinery.

There is certainly a wide field for the operation = of such an organization, as the processes by which the art of self-government is practised in Canada are both

## THE MANCHESTER Fire assurance company.

Wstabished 1824. OAPITAL, - $\$ 10,000,000$
Head Office, Canadian Branch Head Office, TORONTO,
JAS. BOOM MANCHESTRRC, HNG. T. D. Riohardson, Assistant-Manager.

EVANS \& JOHNSON, Reeldent Agente, MONTREAL. 1723 Notre Dame St.

\section*{The Imperial Life | asscog oor |
| :---: |
| casivoc. |}

Will offer a most advantageous contract to a good representative in each of the following places

| Sherbrooke, | Knowlton, | Richmond, |
| :--- | :--- | :--- |
| St. Johns, | Stanstead, | Coaticook and |
| Huntingdon, | Waterloo, | Drummondville |
| Farnham, | Granby, |  |

Only men ofgood character, possessing energy and business ability will be considered for these vacancies.
E. S. MILLER, Provincial Manager,

260 St. James Street,
MONTREAL.
varied in character and uncertain in their effects. We are not sanguine in regard to a Municipal code of laws being adopted applicable all over the Dominion. The local conditions of cities, towns, and villages in the different Provinces are so varied that the framing of a common system of municipal government is an almost impossible task. Our Federal form of government presents formidable difficulties in this connection, as before a common system coald come into force in all parts of the Dominion, the proposed municipal Code would have to be sanctioned by the Legislature of each Province - the achievement of which

# Mutual Reserve Life Insurance Co., <br> frederick a. burnham, PaEsibent. 

HIGHTY-ONE THOUSAND POLICY-HOLDERS. Total Assets, $\$ 12,264,838.21$.

## THE TWENTIETH ANNUAL STATEMENT Shows that the 1900 Business Brought

# An Increase in Assets. An Increase in Income An Increase in Surplus . AND.. 

An Increase in Insurance in Force.

## Net Surplus, <br> $\$ 1,187,617.68$. <br> Total Death Claims Paid since Organization, over

 FURTY-EIGHT MILLION DOLLARS.EXOELLENT POSITTONS OPEN in itte Agency Dopartment in overy

 CAN WoRik Por. Farther information appyilad by ny of the Hope
Home Office, Mutual Reserve Buildidng, - - NEW YORK CITY Montreal Office, . . La Presse Building.
т. w. P. patterson, gen. Han.

# Union Assurance Society OF LONDON. 

(Ingtituted in the beign of Quben Anne, A.D. 1714.)
Oapital and Accumulated Funds excee 1 ,
$\$ 16,000,000.00$
OAE OF THE OLDEST AND STRONGEST OF FIRF OFFICES.
CANADA Branch:
Cor. St. James and, MeGill gtreets, - MONTREAL
T. L. Me RRISEY, Manager
T. L. MCRRISEY, Manager.
would, we fear, be a hopeless task. In this Province there would be a storm of opposition raised against any proposal to remove or lessen the immunities now enjoyed by rural municipalities, or any attenpt to saddle them with charges now borne by the Province at large.
The suggestion that municipalities should be given power to combine for the purpose of borrowing on their joint credit is more ingenious than practicable. The further one that provincial machinery should be established to examine debentures and certify them, or, to secure these local securities being guaranteed by the Dominion Government, is most unlikely to ever get beyond the sphere of discussion. Municipal debentures are only issued to raise money for local improvements. If the local conditions show that the local affairs have been prudently managed, that the debentures issued, or to be issued are secured by ample local assets, that the tax assessments are sufficient to meet all the annual charges, including a proper sinking fund, such securities, when legally issued, will command their full value in the market, they need no guarantee by other municipalities. On the other hand, if a city, town or village has been extravagant, wasteful, badly managed, if its debentures have no solid basis in assets, and are not well protected by ample assessments and a sinking fund, it would be unfair, even if possible, to make other municipalities joint guarantors of such weak securities. It is far better to make each municipality be responsible for the state of its own credit, and learn by hard experience in the money market what diagreeable results flow from extravagance and bad management, or, on the other hand,
how advantageous it is to establish high credit upon economy and sound financing. As to the Dominion Government ever guaranteeing municipal securities, we regard the idea as too chimerical for serious discussion.
As to giving corporations further borrowing powers, we regard this as undesirable. When any such body needs a loan for temporary purposes, it is now only too easy to secure the money from a local bank. Easy borrowing too often means easy spending, and municipalities are far more liable to injury from securing monetary aid too readily than from some improvement being delayed for lack of funds.

The interchange of views, experiences, and sugges ${ }^{-}$ tions amongst the representatives of the municipalities of Canada will doubtless prove valuable to all of them. The Union that has been organized will have many opportunities of doing great service to the public, especially in strengthening corporations in their efforts to protect ratepayers from the aggressive actions of wealthy companies when endeavouring to secure valuable franchises without equitable payment. In all such efforts to defend municipal interests and to render our system of local self-government more efficient and serviceable to the public we trust the Union of Canadian Municipalities will have every success.

## THE LONDON MONEY MARKET.

The great activity in business the world over, especially in the principal manufacturing countries, has brought about a state of affairs in the great money centres scarcely expected as following the close of the war and the consequent diminution in the demand for materials. Recent issues of the Economist mention and comment upon this state of things.

At the close of August the poverty of the market in London necessitated further borrowing from the Bank to provide for the requirements of the Stock Exchange settlement. The week's Bank return consequently showed an increase of $£ 1,160,000$ in the "other" securities, but that the borrowing had been in excess of immediate requirements appears to be indicated by the concurrent increase of $£ 2,162,000$ in the private deposits. As usual at the end of the month, the banks had not been lending freely, and this helped to drive borrowers to the Bank, and advances for the day were not easily obtainable under the official rate of 3 per cent. In harmony with the scarcity of money, discount rates had also advanced. The discount houses generally were, as a rule, refusing to take three months' paper under $2 \frac{7}{8}$ per cent. Anxiety was being felt as to the possibility of gold being withdrawn hence for the United States to fortify the reserve banks, so as to enable them to cope with the demand for currency to move the unusually heavy crops. It was announced that the banks contemplated an addition to their note circulation to provide for the demand, and that the Secretary of the Treasury had already ordered a supply of additional notes to be printed, so as to be ready for use when required. And, as showing the extent of the relief thus possible, it is recalled that while the National Banks are entitled to issue notes to the amount of their paid-up capital, yet against a capital of over $£ 143,000,000$ they had then in circulation notes to the value of $£ 63,000,000$. But it has to be remarked that the reason why the banks had not exercised their note-
issuing powers to their full extent is that it does not pay them to do so. They could only issue against Government bonds, and these were selling at such high prices, that it did not pay the banks to buy them for the purpose of depositing them as security for their note issues. For that reason the bank note circulation of the States had latterly been contracting rather than expanding, and although if money should become stringent and the banks get high rates for loans and advances, it may pay them to augment their note circulation, that could only be a temporary expedient. And there was thus the danger that an over-inflation of the currency, to be followed by a sharp contraction later, may lead to an unhealthy expansion of bank loans and of Stock Exchange speculation for the time, with a subsequent serious relapse. "From the purely monetary point of view, however, if the banks can afford to buy or to borrow Government bonds on conditions which will enable them sensibly to augment their note issues, the probability of gold having to be drawn from this side will, of course, be so far diminished."
At the begining of this month another instalment on the last issue of Consols fell due, and this caused a further strain upon the market's resources.

In the absence of foreign influences of any importance, Consols have therefore been the dominating influence in the money market. The financing of heavy speculative account open in them sufficed to counteract any relief which the market might have felt at the turn of the month, and on Thursday (the 4th) about four and a-half millions- $£ 6,400,000$, less the instalments paid up in full-had to be found for the payment of the penultimate call of 20 per cent. on the issue of $£ 32,000$,000. Notwithstanding timely Government disbursements, indicated by a reduction of $£ 2,289,918$ under the heading of "Public Deposits" in the Bank Return, weekly money, owing largely to the prospect of Thursday's call, had been firm at $2 \frac{1}{2}-\frac{3}{4}$, finishing at $2 \frac{1}{2}$ per cent. and day-to-day supplies, obtainable exceptionally at 2 per cent., fluctuated between that figure and $2 \frac{3}{4}$, finishing on the 5 th at $2-2 \frac{1}{2}$ per cent. The Bank Return showed a reduction of $£ 909,426$ in the outside indebtedness to the Bank, but the market was still unable to shake off that indebtedness, and the issue of $£ 2,000,000$ Treasury Bills following week, together with calls of $£ 300,000$ on Liverpool Corporation Three per cent. stock, and $£ 750,000$ on New South Wales Threes, had to be borne in mind in estimating monetary requirements in the immediate future. In sympathy with money, discount rates had been well maintained, fine three months' paper being quoted through the first week of September at 2 13-16-7, four months' drafts at $3-31-16$, and six months, at $3 \frac{1}{8}-\frac{1}{4}$. Gold movements to and from abroad had been insignificant, the reduction of $£ 460,734$ shown in the reserve being chiefly due to ordinary monthly internal requirements, though some proportion was due to demands from Scotland in connection with the fisheries. The three leading foreign exchanges scarcely moved, with the exception of the French cheque rate, which showed a fractional rise, owing to easier money in Paris. The state of the Italian exchange, which began the month at 25 $27 \frac{1}{2}$, touched the lowest point on record, was mainly due to political causes. The monetary position in the United States increased in interest, inasmuch as the flow
of currency to the interior had commenced, and must, notwithstanding the precautionary measures adopted by the National banks at the suggestion of the Secretary of the Treasury, tell before very long on the position in London. Although the current return of the New York Associated Banks showed practically no change as compared with that of the previous week, the position of the banks was less strong than it was 12 months ago, when loans were lower and reserves higher, and much of the crops has, of course, yet to be moved. Credits lestablished in London by American houses, both against Stock Exchange and other forms of security deposited with third parties on the other side and otherwise, have been extensively utilized, and a fair amount of American paper, especially paper bearing certain significant names, was being offered for discount. "It would be interesting," says our contemporary, "to know the extent to which, in taking a hand in financing American industrial and other deals, we are paying for the maintenance of our position as the world's money market, open to all comers, by assisting our friends across the Atlantic to compete with us successfully in branches of commerce in which we have hitherto held the lead."

## VERSATILITY OF FASHION.

Originality with a few and the desire to copy by many are responsible for the becoming and attractive as well as for the grotesque and ludicrous. Who does not remember the sunbonnet with its manifold qualities, which for many a summer kept it well in place, yet where is it to-day? It did not go out from the world of usefulness because it was no longer wanted. It did not leave because anything more trustworthy, more economical, more readily fitting, or more variegated worked its way in, yet it is now but a memory.

The winter scarf or neck muffler passed away as quietly, although the feeling of actual necessity still possessed by a few regarding this garment permits it to be occasionally seen abroad. The cloud for ladies' wear has of late been going into like obscurity. Many dry goods dealers recall when to have neglected a full stock of shades, weights, lengths, etc., in these would have been a serious interference with their trade, yet each have had their day, and stepped aside to make way for something new.
It is pleasing to note, however, that the drift of fashion has of late years been in favour of the masses rather than toward exclusiveness; and to none is this as pleasing as to the merchants. In this they see the certainty of much larger sales, for what everybody wears everybody wants. Note the styles in men's hats, as compared with a quarter of a century ago. What would be thought of the millionaire, or the retail village grocer who would then don a "crush" Panama and give it the cheerful airing which it so proudly exacts to-day! The ladies' sailor with goosequill adornment would have looked equally as ludicrous, yet we 'are now in touch with both, and next season will, it is claimed, by returning tourists, find not only exaggerations in these, but in hats for evening and special wear. There was a time, says the Springfield Republican, well within the memory of the oldest inhabitant, when an apron was an absolute necessity. No
woman thought of sitting down of an afternoon without donning it; when she went out on the street it was an ornamental portion of the wardrobe; when she attended church it was still in evidence. In fact, it was the fashion. The only difference lay in its color and style. The Sunday apron was of black silk, trimmed with ribbons, velvet and lace, with narrow ruffles all around and across the pockets; the every-day one was the Sunday apron before the last, looking not quite so fresh, but eminently respectable. Every child wore its pinafore of gingham for morning and ruffled crossbar or dimity for afternoon. The little boys also wore it until they were put into roundabouts and trousers-those were not the days of knickerbockers. When the little girl became a great one, she still retained her apron, only the waist and sleeves of her pinafore, or "long-sleeved apron," were dropped, and she appeared only in the white apron, either with a bib or with ruffled straps across the shoulders, or the fancy colored silk apron. She would have been as much shocked as her mother at the idea of an apronless existence.
The decline and final fall of the apron came with the advent of the genteel maid, who appeared in spotless, voluminous white apron and little cap; later the trained nurse donned them, and their use in daily life became restricted to the kitchen apron, which will never be discarded, as long as housework is done-not till the chemist's pellet takes the place of bread and meat will the enveloping folds of the trusty gingham apron disappear.

It is perhaps not fair to say that the great decline of the apron began when the waiting maid put it on. Its use as an adjunct of afternoon dress has been waning for long, and in the beginning of the ${ }^{2} \% \mathrm{~s}$ and before only the white apron was worn of an afternoon, and then only at home and by homely people. And now the whirligig of Time is reviving the apron among other old-fashioned things-only now if a woman will put on an apron it must be of differentiating denim.

## RETIREMENT OF MR. J. H. PLUMMER.

The Canadian Bank of Commerce is about to lose the services of Mr. J. H. Plummer, assistant general manager, who is retiring in order to take a long rest, which he needs in order to re-establish his health after many years of laborious devotion to anxious and exhausting duties.
Mr. Plummer has had exceptionally wide experience in banking life. He entered the Bank of Montreal in 1866, during the winter of which he was offered a position in the Bank of Commerce, which was then being organized. He assisted at the opening of that institution, and continued in its service up to 1878, after filling various positions, amongst others being, Manager at Barrie, Brantford and Ottawa, and Inspector of the bank. He left to engage in the lumber business in Michigan, where he remained for several years, acquiring that intimate knowledge of commercial life which has since proved so serviceable to him as a banker. In 1882 he accepted the position offered to him by Mr. Geo. Hague, of Assistant General Manager of the Merchants Bank of Canada, where he was very highly appreciated. On Mr.
B. E. Walker assuming his present position as general manager of the Bank of Commerce, he looked out for the best assistant procurable, and was fortunate enough to secure Mr. Plummer, who, since 1886, has distinguished himself in the onerous position he is now about resigning.
Mr. Plummer, besides possessing a thoroughly practical knowledge of banking in Canada in all its phases, is a man of versatile accomplishments and more than usual culture. He has done excellent work in connection with the editorial management of the Canadian Bankers' Journal, for which he was especially fitted by his combining literary tastes and experience with technical knowledge. In earlier years he was a valued contributor to the Journal of Commerce, when the late Sir Francis Hincks was also a writer for this paper. If we are not mistaken, Mr. Plummer has also an expert knowledge of engineering, which is probably unique amongst those of his profession, as Mr. B. E. Walker, the general manager, has of another science, of which he has made a study. Such intellectual accomplishments and tastes indicate a higher order of brain, and though not necessary to a banker's success, they broaden his ideas, enlarge his outlook, quicken his faculties, and afford the most enjoyable form of recreation.

It is proposed to replace Mr. Plummer by Mr. Laird, who is the bank's New York Agent, who will be succeeded by Mr. H. B. Walker, who will leave the Canada Life Assurance Co. to go to New York.

The above change will disturb cherished personal connections of long standing. Those of the staff of the Bank of Commerce who have stood as the colleagues of Mr . Plummer for years, have learnt to regard him with affection as a comrade, as well as deep respect as an official. His retirement is much lamented by all who are associated with the Bank of Commerce, which is now the second largest in Canada. It is to be feared that the extra duties undertaken by Mr. Plummer in arranging the transference of the business of the Bank of British Columbia to the Bank of Commerce, put a heavy strain upon his strength. We join an innumerable body of his friends from the Atlantic to the Pacific in wishing Mr. Plummer and his family a most enjoyable time during his "long vacation," and a speedy attainment of his normal health and vigour.

## BRITISH FINANCES.

A point must come at which even a rich country will fail to yield further income, but there are no indications that the burden of taxation in the United Kingdoms presses too hard on the population or checks the supply of their actual wants, or even their modest luxuries. The figures in the report of the Inland Revenue Commissioners, just issued, says a London report, reveal much interesting matter to the diligent searcher, but he will not succeed in discovering any evidences to support the claim that the country is "groaning under taxation." Never had people greater incomes, more money apparently for alcoholic refreshments, and the laudable ambition of every man dying to leave behind him a fortune for the chancellor's holding, is neither dead nor impossible of realization. As a matter of fact, the gross inland revenue receipts down to the end of March last were no less than $£ 103,818,452$, made up as follows:-

# STAND or 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., LONDON, ENGLAND. 

Established 50 Years.


This is a great sum, and not the least satisfactory fact is that, in spite of new taxation, the cost of collection has fallen from 4.42 per cent. in 1847 and 3.17 per cent. eleven years ago, of the gross amount to 2.28 in 1901-2, a result in every way creditable to the department. Since 1891-2, a period of eleven years only, the net inland revenue duties have risen from $£ 63,165,263$ to $£ 101$,022,460 , a gigantic expansion, to which Ireland has contributed a comparatively small sum. During this time the increase has amounted, therefore, to $£ 37,857,000$ or nearly 60 per cent. The revenue from excise was responsible for $£ 6,566,000$; estate, etc., duties, $£ 7,420$,000 ; stamps, $£ 2,324,000$; inhabited house duty, $£ 284,000$; income tax, $£ 21,526,000$. Land tax showed a decrease of $£ 263,000$. These figures indicate how little of the added burden has fallen on the poor, and how much, on the other hand, has come from the moneyed and the middle classes with incomes-mostly small-liable to assessment. Year by year the income taxpayer has been pressed to contribute more largely, and of the increase in receipts last year over the preceding twelve months, amounting to $£ 7,846,273$, most was attributable to income tax and estate and kindred duties, while excise and stamps actually declined.

As has been stated, excise produced a poor revenue last year. It amounted to $£ 36,855,728$, showing a net decrease compared with the net receipt of the previous year, of $£ 1,684,359$, or 4.4 per cent. The falling off may be seen from the following figures :-

| Beer duty.. .. .. | £ 222,098 |
| :---: | :---: |
| Spirit duty | 1,633,224 |
| Charges on deliveries.. | 450 |
| Coffee mixture labels . . . . . | 69 |

## Less increases:

| Glucose, | 64,490 |
| :---: | :---: |
| Licenses. | 88,213 |
| Railway passenger duty | 18,649 |
| Chicory duty. | 116 |

Tobacco (home grown). $\qquad$
$\square$ 14

171,482
Net decrease..
£ 1,684,359
It is a curious fact that beer and spirits produced about the amount of the navy vote of last year- $£ 32$,219,217 , confirming the old saying that the fleet is floated on alcohol. There is no indication that the consumption of these beverages liable to taxation is declining. It is true that beer yielded only $£ 13,718,438$, and spirits only $£ 18,490,779$, but it is possible to misunderstand these decreases. In reference to the former, the beer drinker now demands a lighter decoction. The official explanation of the reduced return is:
"The decrease is probably due to the same causes which were in operation last year, viz., the absence in South Africa of so many of the community and the production of beer at a lighter gravity than formerly.
"Comparing the number of barrels on which duty was paid in 1901-02 with the number in 1891-92, there was an increase of $3,194,000$, or 12 per cent.
"The number of breweries, as evidenced by the number of licenses issued to brewers for sale, was in 1891-92 10,087, and in 1901-02 5,893. The licenses issued to brewers, not for sale, which in 1891-92 numbered 20,705, diminished to 11,872 in 1901-02."

Brewing is passing into the hands of large concerns, and the small man is being bought up or driven out of the field. That the foreign trade is progressing may be seen from the exportation of 520,983 barrels last year, a greater quantity than ever before. Spirits also show . an apparent falling off, the duty having yielded $£ 1,633,-$ 224 less than in 1900 . But, after mentioning the reduced quantity of spirits retained for home consumption, compared with 1899 and 1900, the report adds:-

These figures as to beer and spirits must be borne in mind in considering the interesting figures showing the consumption per head of the population. The statistics are as under:-
"In 1891-2 31,526,000 barrels of beer, or 30.01 gallons per head of the population, was consumed.
"In 1901-2 the consumption was $35,389,000$ barrels, or 30.66 gallons per head.
"In 1891-2 the $39,907,555$ proof gallons of home, colonial, and foreign spirits, or 1.05 gallons per head of the population, was consumed.
"In 1901-2 the consumption was $49,843,842$, or 1.01 gallons per head."

## WHAT CANADA BUYS.-(11.)

We continue publication of a list of the goods imported 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
manufacturers in the United Kingdom and their representatives 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.)

?

FIRE INSURANCE IN CANADA， 1901.

Table showing ratio of losses，expenses，etc．，to premiums，amount of risks written in 1901，assets，etc．，compiled from the report of the Superintendent of Insurance：－

| Fire and Marine Ins．Cos． |  | Ratio of Expenses to premiums． |  |  |  |  |  |  | $\begin{aligned} & \dot{N} \\ & \stackrel{H}{u} \\ & \dot{U} \\ & \dot{N} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Canadian Companies－ | p．c． | p．c． |  |  | \＄ | \＄ | p．c． | \＄ | \＄ | p．c． |
| Anglo－America ．． | 52.28 | 33.69 | none | 84.01 | 16，854，363 | 226，922 | 1.35 | 14，528，907 | 147，861 | 1.02 |
| British America | 65.36 | 33.57 | 3.32 | 99.28 | 247，939，951 | 2，569，373 | 1.04 | 204，860，270 | 1，761，187 | 0.86 |
| Canadian Fire． | 46.83 | 26.67 | 4.31 | 74.20 | 10，080，191 | 183，548 | 1.82 | 10，012，717 | 251，288 | 2.01 |
| Equity Fire．． | 41.02 | 39.92 | none | 78.74 | 10，247，461 | 126，961 | 1.24 | 9，389，676 | 95，679 | 1.02 |
| London Mutual | 55.82 | 32.15 | none | 86.37 | 25，879，132 | 394，934 | 1.53 | 57，379，922 | 502，801 | 0.88 |
| Mercantile． | 51.03 | 24.48 | none | 70.63 | 7，679，552 | 102，877 | 1.34 | 10，975，017 | 227，783 | 2.08 |
| Ottawa Fire．． | 63.14 | 39.47 | none | 99.61 | 13，397，096 | 199，61i | 1.49 | 12，974，256 | 141，640 | 1.09 |
| Quebec． | 75.86 | 36.06 | 0.16 | 104.65 | 10，899，771 | 151,955 | 1.39 | 13，116，354 | 200，878 | 1.53 |
| Western | 67.04 | 31.35 | 4.04 | 99.83 | 461，595，096 | 4，625，574 | 1.00 | 331，263，283 | 3，257，274 | 0.98 |
| Totals and averages．． | 64.67 | 32.33 | 0.33 | 97.45 | 804，572，613 | 8，581，755 | 1.07 | 664，500，402 | 6，586，392 | 0.99 |
| British Companies |  |  | $\stackrel{\square}{\square}$ |  |  |  |  | \＃${ }^{n}$ |  |  |
| Atlas： | 59.13 | 26.12 |  | 85.24 | 18，059，352 | 282，720 | 1.57 |  | 729，880 |  |
| Alliance．． | 142.38 | 34.44 |  | 176.82 | 12，964，454 | 134，144 | 1.03 | 3－ | 1，607，201 |  |
| Caledonian． | 87.70 | 28.53 | กㅢ | 116.23 | 21，753，264 | 286，694 | 1．32 | 島 $\geqslant$ | $593,214$ |  |
| Commercial Union | 66.44 | 26.20 |  | 92.64 | 35，997，644 | 500，003 | 1.39 | $\cdots$ | $2,363,108$ |  |
| Guardian． | 82.17 | 29.44 |  | 111.60 | 32，137，455 | 463，578 | 1.44 | $\stackrel{1}{2}$ | 1，743，766 |  |
| Imperial． | 70.73 | 29.87 |  | 100.60 | 23，287，352 | 349，455 | 1.50 |  | 1，183，679 |  |
| Lancashire． | 156.06 | 31.19 |  | 187.25 | 9，135，321 | 128，848 | 1.41 |  |  |  |
| Law Un．\＆Crown | 65.79 | 35.29 | 〕 \＃ | $101.08$ | $6,112,200$ | $89,298$ | 1.46 | ๕๊ะ | 665，150 |  |
| Liverpool \＆Lon．\＆Gilobe | 85.91 | 27.74 | E | 113.65 | 33，095，251 | 441，342 | 1.33 | घ． | 3，612，928 |  |
| London \＆Lancashire．． | 53.98 | 28.07 |  | 82.06 | 20，979，858 | 297，146 | 1.42 |  | 1，847，060 |  |
| Manchester． | 92.95 | 31.37 |  | 124.32 | 18，993，713 | 267，499 | 1.41 | 피 ¢ | 773，262 |  |
| London Ássurance． | 84.13 | 31.68 | म．${ }^{\text {a }}$ | 115.81 | 14，590，424 | 165，117 | 1.13 | \％\％on | 1，677，786 |  |
| National of Ir land．． | 56.19 | 29.14 | So | 85.33 | 17，676，187 | 273，573 | 1.55 |  | 257，597 |  |
| North British \＆M． | 70.07 | 26.36 | 를 | 96.43 | 41，630，828 | 551，754 | 1.33 | ¢ | 3，641，444 |  |
| Northern．． | 74.19 | 26.17 | 추ํ | 100.36 | 25，666，058 | 362，641 | －1．41 | 水 충 | 2，034，463 |  |
| Norwich Union． | 72.75 | 31.14 | 令 | 103.89 | 26，383，966 | 403，062 | 1.53 | สิ | 1，248，515 |  |
| Phoenix． | 67.06 | 27.30 | 赈 | 94.35 | 43，532，451 | 695，716 | 1.60 | 구래․ | 1，834，993 |  |
| Royal．．．．．．． | 59.66 | 27.42 | \％ | 87.08 | 71，758，381 | 957，932 | 1.33 |  | 3，825，035 |  |
| Scottish Un．\＆N＇1 | 62.50 | 25.63 | 为 | 88.14 | 25，713，840 | 381，715 | 1.48 | ค\％\＃ | 935，135 |  |
| Sun． | 72.15 | 30.50 | \＃ | 102.65 | 17，847，851 | 260，719 | 1.46 | ¢ \％ | 2，465，283 |  |
| Union．． | 93.19 | 26.55 |  | 119.74 | 24，826，382 | 363，351 | 1.46 |  | 997，602 |  |
| Totals and averages． | 74.13 | 28.17 |  | 102.30 | 542，142，232 | 7，656，309 | 1.41 |  | 34，037，107 |  |
| American Companies－ |  |  |  |  |  |  |  |  |  |  |
| Aetna． | 72.53 | 23.92 |  | 96.46 | 17，143，416 | 223，016 | 1.30 |  | ＊196，519 |  |
| American． |  |  |  |  | 2，553，822 | 36，933 | 1.45 |  | ＊110，960 |  |
| Connecticut． | 59.95 | 25.41 |  | 85.36 | 4，323，046 | 68，356 | 1.58 |  | ＊108，643 |  |
| Hartford．． | 63.91 | 27.18 |  | 91.09 | 20，178，317 | 259，029 | 1.28 |  | ＊223，201 | ．．． |
| Ins．Co．of North America． | $65.42$ | 31.51 |  | 96.93 | 15，503，048 | 201，797 | 1.30 |  | ＊171，655 | $\ldots$ |
| Phenix of Brooklyn． | 66.44 | 26.59 |  | 93.03 | 12，494，126 | 180，332 | 1.44 |  | ＊123，715 | ．．．． |
| Phoenix of Hartford．． | 63.29 | 33.26 |  | 96.54 | 10，545，342 | 152，733 | 1.45 |  | ＊267，667 |  |
| Queen of Am．． | 58.04 | 27.38 | ．．．．． | 85.42 | 32，147，377 | 482，009 | 1.50 |  | ＊330，005 |  |
| Totals and averages．．．． | 65.47 | 28.25 |  | 93.73 | 114，888，494 | 1，604，205 | 1.40 |  | ＊1，532，368 |  |

＊These items refer to the assets of the several companies which they have in Canada．
Recapitulation．

| Canadian companies．．．．．． | 64.67 | 32.33 | 0.33 | 97.45 | $804,572,613$ | $8,581,755$ | 1.07 | $664,500,402$ | $6,586,392$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| British companies．．．．．．． | 74.13 | 28.17 | $\ldots \ldots$ | 102.30 | $542,142,232$ | $7,656,309$ | 1.41 | $34,037,107$ |  |  |
| American Companies．．．．．． | 65.47 | 28.25 | $\ldots \ldots$ | 93.73 | $114,888,494$ | $1,604,205$ | 1.40 | $\ldots$ | $1,532,368$ |  |
|  |  | $\ldots$ | $\ldots \ldots$ | $\ldots \ldots$ | $\ldots \ldots$ | $1,461,603,339$ | $17,842,269$ | $\ldots$ | $\ldots$ | $42,155,867$ |

# CARTER BROS., 

## Engineers and Millwrights,



# Bridge Street, 

 Rochdale, Eng.
## Specialty ir

# Mill Gearing 

## of all kinds.

Special terms to Canadians, undet the New Preferential Tariff

## FAVORABLE DOMINION STATISTICS.

The prosperity of the country and the expansion of our foreign trade is again emphasized by the customs returns and by the revenue and expenditure statement for the first two months of the present fiseal year. Our aggregate foreign trade on the basis of imports for consumption and exports of all kinds for July and August, says a report from Ottawa, amounted to $\$ 5 \% .444,163$, a gain of $\$ 1$, 935,260 as compared with the same two months of the pre-

## CROSS \& CO.

(Frederick Escott \& Henry Cross.)

Manufacturers of


Trade
 Mark. THE "CROSS" BRAND.


## PIE DISH FRILL

## Dish Papers,

Dessert Papers,
Ham Frills,
Outlet Frills,
Souffle Caseg, \&c.
Every description of Laced, Embossed and Pleated Paper Goods for Table Decoration.
Made in London from British Materials by British
Workpeople Only.
33 Tabernacle Street.
LONDOK. E.C:, England
NOTE-These Cars are supplied $31 /$ p.c.,
under the New Preferentia
vious year. For August alone the figures were $\$ 40,067,848$, a betterment of $\$ 1,432,720$ over the same month of 1901. The fiscal statement evidences a most buoyant revenue, the receipts on consolidated fund account amounting to $\$ 9,758$,947 for July and August. The revenue exceeded the ordinary expenditure by $\$ 4,204,832$, and the ordinary and capital expenditure combined by $\$ 3,439,316$. With respect to our foreign trade, the imports for consumption for the two months aggregated $32,451,830$, an increase of $\$ 1,078,814$ over the same period of last year. The exports of domestic merchandise totalled $\$ 36,746,854$, showing a gain of, $\$ 3,-$ 912,581. Compared with 1901 our exports of foreign goods for the two months show a decline of $\$ 2,145,252$. The noticeable features of our domestic export trade were a diminution of over $\$ 2,000,000$ in the value of mineral products sent out, and the following gains in other classes:Animal products, $\$ 3,955,387$; agricultural products, $\$ 1,346,-$ 859 ; fisheries, $\$ 361,228$, and manufactures, $\$ 189,429$. The following are the details of imports and exports for the two months, compared with 1901:-

Imports for Consumption-August.


Domestic Exports-August.

[^1]1902.

The mine.. .. .. ................. $\$ 6,333,614$ \$ 3,340,502
The fisheries.. .. . . . . . . . . . . . 950,518 952,651
The forest..... .... .. .. ........ 4,358,462 4,606,316

## MANUFAOTURERS OF

Ground, Smoothed, Polished, Silvered, Bevelled, Brilliant Cut, and Bent Plate Glass; Rough Rolled and Rough Cast Plate Glass ; also of Rough and Polished Prismatic Glass, \&cc., \&cc.

## works and registered offices:

POCKET NOOK, ST. Helens,

## MORE LIGHTI MORE LIGHTI

We have pleasure in bringing to your notice our new production (protected by Patent Act)"REFRAX" GLASS. This Glass is less costly than ordinary Plate Glass and gives greatly increased light, making basements as light as first floors. It is equally valuable for all floors, doubling or trebling the light in rooms of buildings in narrow streets. Specially manufactured for the Canadian market, under the New Canadian Tariff, $331 / 3$ per cent. in favor of buyers.


Domestic Exports-Two Months.


According to the revenue and expenditure statement the receipts were $\$ 9,758,947$ for the current fiscal year up to August 31 , as against $\$ 8,817,062$ for the same two months of 1901 . The expenditure amounted for the same period to $\$ 5,554,115$, as compared with $\$ 5,362,982$ for 1901 . The following are the details:-

| Revenue. | Total to 1901. | $\begin{aligned} & \text { Aug. } 31 . \\ & 1902 . \end{aligned}$ |
| :---: | :---: | :---: |
| Customs | \$5,270,466 | \$5,949,451 |
| Excise.. | 1,734,777 | 1,178,637 |
| Postoffice. . | 510,238 | 580,000 |
| Public works, including railways | 1,055,242 | 1,164,125 |
| Miscellaneous.. | 246,343 | 286,734 |
| Total.. | \$8,817,062 | \$9,758,947 |
| Expenditure | 5,362,982 | 5,554,115 |

The capital expenditure for the period under consideration was $\$ 765,515$, or $\$ 1,726,300$ less than for the first two months of the previous fiscal year. Appended are the d. tails:-

| Public works, railways and canals.. | $\begin{aligned} & 1901 . \\ & \$ 1,681,329 \end{aligned}$ | $\begin{aligned} & 1902 . \\ & \$ 490,272 \end{aligned}$ |
| :---: | :---: | :---: |
| Dominion lands. . | 32,244 | 19,362 |
| Militia, eapital.. .. | 2,000 | 3,140 |
| Railway subsidies.. | 709,570 | 194,620 |
| Bounty on iron and steel.. |  | 9,213 |
| South African Contingent.. .. | 66,672 | 49,048 |
| N.W.T. rebellion. . . . . |  | 141 |

## AT THE DRY GOODS WINDOW.

Small black velvet buttons are in great demand and these wash without showing the effect of the laundry.All sorts of small ball and oval buttons in silk of almost every variety are good articles for trimming purposes. Pipings and applications of suede in pale tones are seen on serge gowns. - A series of three or five chains festooned between bars is a fashionable form of necklet, not to wear tight around the throat, but to rest on the neck. Brooches are worn very small, and some are beautifully painted.Flowered muslin, delaines and challies make pretty little froeks for girls, with yokes and frillings round the hem. A novel idea is a yoke piece from the waist smocked; this being elastic it adheres nicely to the figure.-Nickel grey for costumes is to have a marked place among smart colors, and trimmings are made to harmonize or contrast with it.-A modish neglige is of black crepe de chine fashioned after the empire style, and made up over white silk. Collar, epaulettes and insertions are of guipure lace.A frock composed completely of alternate rows of lace insertion and bands of white lawn is given a pretty touch by having a pink lawn ruffle at the foot under one of white lawn. A pink taffeta belt and chou and stock edged with pink finish the costume.-One of the taking Paris novelties is a flat topped pyramid braid, either in one color, or in black and white. Two or three fine silk cords outline the pyramid and many dressmakers in Paris are putting the braid in double widths upon the material, thus forming squares.-In the way of braid ornaments wave braid rosettes, with olive chain ornaments, are elegant. Ornaments are also made of mingled silk, velvet and braid, with knotted silk cords, olives and tassels. They are very handsome.
A smart little coat is made of black taffeta with the double box plait at the shoulders and a double box plait in front. The coat is no longer than the belt line and in front is finished with very long stoles.-Braids for skirt bottoms also include mercerised hercules and plain abraids, with corded edges, in black, white and all colors.-L'Aiglon braid is in favor. The kind most in favor is narrow and white, with black or colored dots sprinkled over the ground work.-Sea Island, a new, flat braid, three-quarters of an inch wide, is in high favor for dress bindings, as well as for trimming purposes. Ladder braids, with loop and pearl edges, as well as those with feather edges of silk, are exeremely popular, as there is such a fad for running ribbon through ladder braids and insertions. They come in qualities suited to any fabric from the finest silk to the simplest cotton.-Chenille feather stitching on white

# Butteruarth \& Dickinson, 

A. 1. and

Telrgrafitio ADDRESS :

## Globe and Saunder Bank Iron Works, Burnley, England. Makers of all kinds of LOOMS \& PREPARING MACHINERY for COTTON, LINEN \& WORSTED GOODS.



Self-stopping and Sectional Warping Maohines. Cylinder and Hot Cop, Ring-Bobbin and Hank Winding Frames Types, Strengths and Widths, for weaving Light Medium or Strong Goods, Air Slasher Sizing Machines. Looms of various Types, Steng for Cheoks, Oxfords, etc. Dobbies, Plaiting Machines, Plain, Twill, Satteen or Serge. Drop-Box and Revolving Box for Warpers' and Loom Beams. Enquiries will receive immediate Hydraulic Piece Presses, Malleable
attention. Estimates given F.O.B., Liverpool.
Up-to-date Machinery of the best construction. Low Prices. Prompt Delivery.
silk braid is new and dainty and along the lines of handmade effects so much in vogue this year.-An elegant trimming consists of black and white pineapple points on flat braid, alternating black and white on the side of each point.

## FIXING THE DUTY.

It would seem but right that, when a member of the human race meets with a misfortune which necessitates a wooden leg, the public should have feelings-even if the leg hasn't-and make the road as smooth as possible for that hampered individual. But alas for worldly greed, we find only too often that the man who must hobble, must also bend continuously before an unfeeling multitude, even though the leg in question should attempt to remain straight. A problem, says a New York paper, which for months threatened to undermine the health of the New York customs officers, has been solved. The automobile of a Chicago man abroad undertook to climb a church spire, and after the amputation he bought a wooden leg in Berlin. On reaching the shores of his native country he did not declare this purchase as dutiable, and his leg was seized by an inspector. The owner of the leg maintained that he had carried away from this country a real leg which was more valuable that the wooden substitute with which he returned; therefore he brought back less than he took away, and it would be absurd to tax him as though his possessions had been eqlarged from the rich spoils of the European markets.

The inspector, although confident that the leg should be pulled, could not say how it should be classified; and the appraisers, collector and deputies were just as uncertain. The department at Washington merely directed attention to a numbr of irrelevant rulings, and left the decision to the New York office, stipulating only that one trousers leg should be assessed as covering at the same rate of duty, whatever that might be.

After stumping along with a home-made pegleg, while his bought member rested in the custody of the Government, the Chicago man has been allowed to take away his property on paying the duty on it as "family supplies." In their perplexity the customs officers were glad to seize
any suggestion for classifying such an article, and they followed, it is alleged, a recent case in the Police Court in which a man with but one leg applied to the magistrate for a writ to compel his wife to give up his wooden leg, which she had concealed after beating him over the head with it. It was the wife's testimony that the family 'depended on the pawning of the leg for food, and that it was to prevent the husband from pawning it for his own selfish indulgence that she had hidden it. This is about as near to being "family supplies" as a wrooden leg can get.

Still, the paper says, the classification is absurd, and in violation of the rule that every imported article shall be assessed at the highest possible rate of duty. It would have been an easier construction of the laws to classify it as bottles or barroom fixtures, with their higher duties. In the prohibition State of Maine a man with a wooden leg was convicted recently of filling that hollow member with riotous liquor, which he sold at stiff retail rates to the bibulous.

## CANADA'S PETROLEUM RESOURCES.

From the far Athabasea district of the North West comes a report this week of the existence there of oil sufficient for the lubricating needs of the Dominion for the next century. Wheat and cattle will, therefore, not be the only attractions to keep the ambitious land seekers headed north even after they cross the Athabaska River.

Prominent oil experts have long been of the opinion that within a few years Canada will be a great factor as an oil-producing country, and now comes a statement from Dr. Marion S. Churchell, one of the best-known chemists on the Pacific coast, that he has knowledge of the fact that the vein of oil which has been uncovered in Texas and along in California on the Pacific coast extends into Canadian territory, which he believes to contain the real source of all the great oil supply of the United States.
the fact is not generally known," says the doctor, "except in a few commercial centres, that the Canadian NorthWest is a great oil storehouse, capable of supplying the whole continent with fuel for the life of several generations. I have lived in the Canadian Northwest for the last thirty years, and I have carefully studied the oil question The daranor oil $\alpha$

## L. GARDNER \& SONS LIMITED

## Patricroft, Manchester, England.



## Makers of :

Gardner Oil Engines-Petroleum.
Gardner Gas Engines-Town or Producer Gas. Gardner Spirit Engines-Gasoline, Benzoline. Gardner Alcohol Eagines-Methylated Spirit Gardner Launch Engines-Oil, Spirit or Alcohol.

Photo of 20 B. H. P. Oll Eingine.
Engines from $1 / 2$ B. H. P
Horizontal and Vertical.
Tube Ignition with Ignition Valves
Electric Ignition
More than 2000 Fngines Sold and Working Suc cessfully in all Parts of the World. 200 Engines Always in Progresg.
in that time, especially as it applies to the supply east of Vancouver. I am convinced that the great basin between the two chains of mountains, the Sierra chain and the Rockies, contains a lake of petroleum of inexhaustible quantity. This space takes in practically the whole of British Columbia, which is bounded by these two ranges All this oil is of one quality, and while it can never be refined to the point where it will be valuable as the common kerosene of commerce, its value as a fuel and lubricant is priceless. There are some who profess to believe that the Standard Oil Company has now practically a grip on the oil prospects of the Canadian Northwest. Options on hundreds of thousands of acres of oil and mineral lands have been purchased by American agents of some oil company within the last few months. Dr. Churchell is an enthusiastic advocate of the use of oil as fuel. He has analyzed the oil croppings of western Canada, and finds the quality to be the same as that of the Texas oil. It makes fine fuel for steam engines, and it is prophesied that within the next few years trains will be operated with oil as fuel from one end of the country to the other, at least in Canada.

## NOTICE TO ADVERTISERS.

Our friends in Canada and the United States will kindly bear in mind that one of the forms on which their announcements appear may have gone to press before their orders for changes arrive, and that consequently they cannot be filled until the next following issue. Our friends in Great Britain and Ireland, and on the Continent of Europe, will probably have received one copy of the paper before required alterations appear.

## APPLES WANTED.

The following communication has been received at this office, and, like many such reaching us monthly, hints very strongly at a lack of judicious advertising on the part of many merchants, whose business might be greatly expanded were their addresses found in a representative commercial journal:-

St. John's, Nfld., Sept. 11th, 1902.
Editor Canadian Journal of Commerce, Montreal,
Dear Sir,-I am desirous of securing the address of a first class wholesale apple dealer, and would feel obliged if you would put me in communication with a good firm. I am, yours faithfully,

## P. C. O'DRISCOLL,

Licensed auctioneer and general commission agent.

## DAIRY PRODUCE.

A private London circular, date 5 th instant, treating of the dairy produce situation, says:-Butter.-The climatic influences so favorable to the dairy industry still con tinue in the United Kingdom, although in the North and North-Western portions of Europe the weather is stormy, wet and cold. The time of year, however, has gone by for any drought or heat to injure the pastures, and the grass, hay and root crops all promise a large supply of food for the coming winter. Much of the hay, however, is more or less damaged owing to the wet season. The demand for Canadian butter is somewhat checked by the lower prices at which inferior butters are offered, and which, at a

# ..Clay-working Machinery.. 

Manufactured by

HORIZONTAL PLASTIC BRICKMAKING MACHINE.


Main Points :
Strength.
Durability.
Fconomy of Power. 표요ienoy.

Special Terms to Canadians Under the New Tariff Tax

# Dowry Street <br> Iron Works, 

Tolegraphio Address, "Brioks," Aocringtom. A.B.C., 4th Edition, A.I.0 Finglneering.
shilling a pound, bring the retailers a greater profit than Canadian. It is true the consumer gets an inferior butter, but that is his fault for not being willing to pay more than a shilling. In Canada prices are advancing and the lowest quotations have been left behind. "Choicest" Canadian on the spot makes 96 s to 98 s per cwt. for salt, with 2s to 3 s more for saltless.
In reply to a cable asking what were the prospects of Australian supplies of butter for the coming season, we have received the following reply. "Butter-there is every prospect of exports being much less than last year." This information agrees with the views of all who are in intimate touch with Australia. When it is remembered that last year the imports from Australia were only 7,449 tons, against 15,556 tons for the previous year, the seriousness of the above cable becomes apparent to every buyer of Australian butter for the coming season. The Danish official quotation has been raised another 2 kroner this week, and now stands at 91 kroner, which, however, is 9 kroner or 10 s below the corresponding week of last year On British markets all classes of butter, with the exception of Canadian, have pisen 2s to 3 s per cwt. on the week, Cheese.-The demand for Canadian cheese on the spot remains at 48 s to 49 s for choicest and 46 s to 47 s for finest. These prices are 2s over those of same date 1901. Quotations from Canada for c.i.f. business are about 2s higher on the week.
Canadian butter and cheese. The first four months of the Canadian dairy produce season, May to August, 1902, have passed, and the receipts of Canadian butter and cheese into the United Kingdom for these months in each of the past three years are as follow:-


| Year. | Butter. | Tons | Tons |
| :---: | :---: | :---: | ---: | Tons

Thus both butter and cheese receipts are much heavier than last year to date, but the two together are only slightly heavier than in 1900 . Let us now turn to the quantities of butter and cheese to come forward. Assuming that it takes 25 tons of milk to make one ton of butter and 10 tons of milk to make one ton of cheese, then the quantities of milk which came forward as butter and cheese for each of the last three years ended 30th April are as follow:-

| Year | Milk as Butter | Milk as Cheese | Total |
| :---: | :---: | :---: | :---: |
| - | Tons | Tons | Tons |
| 1900 | 306,700 | 680,710 | 987,410 |
| 1901 | 171,700 | 755,940 | 927,640 |
| 1902 | 287,625 | 757,630 | $1,045,255$ |

This year for the four months ended August 31st the quantities are as follows:-Milk as butter, 158,975 tons; milk as cheese, 383,060 tons. For the import to equal last year there is, therefore, 126,650 tons of milk as butter and 474,570 tons of milk as cheese to arrive. This year, however, the crops of grass and improved pastures should enable Canada to produce about 10 per cent. more milk than last year, consequently there ought to be 157,410 tons of milk as butter, and 450,330 tons of milk as cheese to arrive, which means over 6,000 tons of butter, and 45,000 tons of cheese to arrive before 30th April, 1903. In other words, only half the butter and cheese to come from Canada have as yet been received.

## AN INSURANCE NOVEL

Insurance circles will undoubtedly be interested in George Dyre Eldridge's novel, "I Will Repay," one of the fall publications of Lewis, Scribner \& Co., of New York.

# M. WOODUZARRD ® SONS, Ltd., 

## WHOLESALE \& EXPORT



# Minmmixacturimg Comieellomers, 

## Manufactory and Office:

Wavertree, . Liverpool, Eng.

Telegraphic Address: "TOXTETH. Liverpool."
Telephone 44, Wavertree.

Mr. Eldridge's position as vice-president and Actuary of the Mutual Reserve Life Assur. Company makes him a prominent figure in the insurance world, and a book from his pen is bound to appeal to a large number of readers. The scene of the story is laid principally on the Merrimac, a region familiar to the author. The local color is well shown, and the character studies are from life. There is indisputable evidence of fine imagination in the plot, and the mystsry element is carried through to the last chapter. Mr. Eldridge's noval promises to be one of the successes of the season. The story of "The Great Divide" of some years ago, will not be forgotten by some old readers. Mr. Eldridge's story will doubtless prove a more satisfactory because more tolerant work.

## FIRE LOSSES

Victoria, B.C., Sept. 15.-There has been no cessation of the forest fires. The new hotel, postoffice and a new store at Mt. Stycker were burned yesterday. In all parts of the districts settlers are fighting to save their homes and crops.-Hamilton, Ont., 15.-Fire occurred in the brass manufactory of Chadwick Bros., and the loss is estimated by them at between $\$ 8,000$ and $\$ 10,000$. The building is owned by James Scott, whose loss is about $\$ 1,500$ or $\$ 2000$, fuly covered by insurance. Messrs. Chapman are also fully insured,-The loss by the fire last night in Mr. John E. Brown's wool and furniture warehouse amounted to nearly $\$ 10,000$, but as Mr . Brown has not returned to the city yet the actual loss is not known. In the top story furniture and household effects were stored, and these were totally destroyed. They were the property of several people. Messrs. Burrow, Stewart \& Milne, the foundrymen, had about $\$ 4,000$ worth of stoves stored on the third floor, and they were damaged by water. Mr. Brown's loss is roughly estimated at between $\$ 5,000$ and $\$ 6,000$. The building was damaged to the extent of about $\$ 1,000$, and the loss on furniture was about $\$ 2,000$. The grocery stock of Messrs. Lucas, Steele \& Bristol suffered somewhat by smoke and water.-Montreal, 14.-The stables of the Light, Heat \& Power Co. damaged; 27 horses were killed. The loss will be about $\$ 15,500$.-Belleville, Ont., 12.-Fire broke out in John Anderson's barn at Hillier, which contained the whole of this season's crop, just threshed. The barn and contents were reduced to ashes, as was also the drive house. The fire was carried to John Ralston's barn, a short distance away, which also contained his season's crop, and which was destroyed.-Calgary, 10.-Fire did $\$ 500$ damage to the Macdonald manual training school buiding. Cause, explosion of an oil can.

## Meetings, Reports, \&c.

THE WEARDALE STEEL, COAL \& COKE CO., LIMITED. (Tudhoe Iron Works), Spennymoor, England
The Directors' raport and balance sheet for the year ended 30th June last, to be submitted to the shareholders on 18th September, has just been issued.
The profits of the year, after paying Directors' fees and providing for all accrued liabilities, amount to $£ 107,0604 \mathrm{~s}$ Sd; and adding the amount brought forward from last year there remains a balance of $£ 141,3033$ s 6 d , which the Directors recommend should be appropriated as follows:-
£ s. d.
Interest on Debenture Stock, Pensions, Donations, etc.
$18,309 \quad 3 \quad 0$
Dividend of 6 per cent. on the Preferred Ordinary shares
$30,000 \quad 0 \quad 0$
Dividend of 6 per cent. on the Deferred Ordinary Shares .. .. ..... . . . . . . . . . .. 13,500 0
Depreciation account (bringing total to £215,000).
$40,000 \quad 0 \quad 0$
Balance carried forward.
$39,494 \quad 0 \quad 6$
£ 141,303 $3 \quad 6$
The coal cutting machines at the Tudhoe and Wheatley Hill Collieries will soon be at work, whilst the improvements in, and the remodelling of the surface plant, etc., at these and the other collieries belonging to the company will have the effect of increasing the output and lessening the cost of production.
The work of erecting the new plant on the Company's freehold at Cargo Fleet is being pushed forward as rapidly as possible, and, when completed, will place the company in the foremost rank as steel manufacturers.
The retiring Directors are Mr. Walter Scott and Col. H. F. Swan, C.B., who offer themselves for re-election.

The Auditors, Messrs. W. B. Peat \& Company, also retire and offer themselves for re-election.
The balance sheet is signed by Sir Christopher Furness, M.P., (Chairman); Mr. Walter Scott, Mr. H. W. Hollis, Directors; Mr. T. H. Warwick, F.S.A.Ả., Secretary

The Saskatchewan Land Company is reported from St. Paul to have sold 100000 acres of Saskatchewan valley lands to the order of St. Benedict, Stearns County, Minnesota; H. J. Haskamp and John Hoeschen, St. Cloud, Minn.

# The St. Helens Cable Co., Ltd., WARRINGTON, ENG. 

Telegraphic Address :-" Filature." Code, "Lieber's."
SOLE MAKERS AND PATENTEES OF

## DIA'S CABLES

As supplied for Glasgow Trams to work at 6,500 volts. Victoria Embankment and Westminster Bridge, 48,000 yards Armoured Cable. Blackpool Tramway Extensions. Salford Lighting Extensions. Glasgow Lighting Extensions, Triple Armoured Concentrics. Wrexham Town Lighting. Heywood Town Lighting. Southampton Tramway Service. Brighton Tramway Service. Bury Lighting. Cape of Good Hope Government Telegraphs. War Office. L. \& N. W. Railway. Great Northern Railway. L. \& S. W. Railway. North British Railway. Liverpool Overhead Raiîway. Rainhill ( 3 miles, mostly 1 sq. inch.) Winwick.
"Impregnable " Paper Cables, Lead Covered up to $8 \frac{1}{2}$ in. Vulcanised Bitumen Cables without Lead Covering. Vulcanised Rubber Cables. Flexibles, D.C.C., I.R. Wires. N. Rubber Tape. Pure Rubber Tape Jointing Tape. Rubber Goods Por Electrical Purposes. Steel Ropes. Bare Copper. Patent Trolley Wire. "DIA'S VULCANIZED BITUMEN CABLES-No risk of electrolysis as in lead covered cables, do not decentralise.

## ANNUAL CONTRAOT FOR:

## Exeter, Shoreditch, Sunderland, Hammersmith, Great Central Ry., Hampstead, Stepney \& West Hartlepool.

NOTE-Buy British Cables, under the New Canadian Preferential Tariff, $83 \frac{1}{3}$ in favour of English Goods

## LEGAL RECORD.

The following is a record of transactions and cases in our Canadian courts of law, comprising Writs Issued and Indgments Rendered for sums of $\$ 300$ and upwards (Mont. real, from $\$ 175$ and upwards), and Chattel Mortgages and Bills of Sale (for sums of $\$ 550$ and upwards), as taken from the public records. It will be understood that the actions or items uo not necessarily affect the credit and soundness of the persons or concerns named, as they may have been paid or otherwise settled, and that good defence may exist in case of writs, etc.:

## WRITS ISSUED-ONTARIO.

Beamsville-Jennie F. Howie vs Geo. Poolé $\$ 5,000$; Clarksburg-T. H. \& A. H. Drayden vs W. F. Jordan \$504; Dunville-H. Farrar vs Jas. Haney et al $\$ 595$; Goder-ich-Kensington Furn. Mfg. Co., vs W. H. Smith \$825; Guelph-Rebecca J. McInnes vs Archd. Little $\$ 10,000$ damages; Nepeau Tp.-Lucy Sadler vs Ellen O'Grady et al \$1,050; Parry Sound-Page Wire Fence Co. vs Johnson, Beveridge \& Co. \$454; Seaforth-Dominion Bank vs D. D. Wilson \& Co. et al., exrs $\$ 7,686$; Toronto-W. B. Cowan vs Jas. Massie $\$ 4,555$; Bonfield-T. Cahill, Jr. vs Patrick Shiedy \$1,100; Caledonia-Neweombe Piano Co. vs Jackson \& Burrows $\$ 375$; Cobourg-J. Clark vs H. J. \& F. W. Snelgrove $\$ 500 ;$ W. C. Beer vs H. J. \& A. E. Snelgrove $\$ 550$; Daymond Tp-Norah Grills vs Jas. Doige $\$ 367$; Fort William -W. Giron vs Donald Munn $\$ 1,000$; Himsworth Tp.-G. Morrison vs J. A. Anderson $\$ 357$; Luther E. Tp.-S. Nelson vs Geo. Teeter et al. $\$ 500$ damages; Madoc-A. Luloff vs John Feeney \$693; Ottawa -A. Thresher vs J. R. Booth $\$ 5,099$; E. \& F. A. Heney vs Archd. Stewart and wife $\$ 55,648$; E. \& F. A. Heney vs Estate of John Stewart $\$ 55,648$; E. \& F. A. Heney vs Estate of Cath. Stewart $\$ 55,648$; Sault Ste. Marie-Em-
pire L. \& S. Co. vs A. C. McRae \$4,247; Sudbury-Pt. Hope B. \& M. Co. vs Annie Bidgood \$440; Toronto-H. Hutson vs MeDermott, Evans \& Lee $\$ 571$; J. \& B. Hendren vs M. W. Sparrow $\$ 300$ damages; Winnipeg, Man.-H. E. Turner vs Chas. McDougall $\$ 525$; ........-W. Griffiths admr. vs Hamilton Electric Light \& Cataract Power Co., Ltd. $\$ 10,000$ damages.

Blenheim Tp.-E. Kenyon vs Fredk. Beemer $\$ 2,000$ damages; E. Kenyon vs Sylvester Beemer $\$ 1,000$ damages; Brandon, Man.-S. Merner vs Carl Koester \$442; Cornwall-E. D. Smith vs Cavanagh \& Co. \$3e3; Delhi-W. Winegardner vs Geo. Gehring et al. $\$ 2,000$ damages; Elizabethtown Tp Corpn. Tp. Elizabethtown vs John Halliday \& H. M. Morrison $\$ 12,000$ damages; Conpn. Tp. Elizabethtown vs John Halliday \& Wm. Stafford \$12,000 damages; Corpn. Tp. Elizabethtown vs John Halliday \& Thos. Pettem $\$ 4,000$ damages; Galt-J. McPherson Co. vs. Byers \& Co. $\$ 395$; HamiltonG. Harding vs C. I. Kelly $\$ 1,000$ damages; Howick Tp.A. \& P. St. Marie vs Alex. St. Marie \$370; Ottawa-H. Sickmond vs Thos. McLaughlin $\$ 5,000$ damages; PetroliaM. J. Woodward vs H. Corey $\$ 5,000$; Port Stanley-A. Smith vs Wm. Fraser $\$ 2,900$; Sault Ste. Marie-J. R. Barnhart vs Wm. Birmingham et al. $\$ 1,017$; J. D. Patanaude vs Cook Bros. et al. $\$ 630$; Thurlow Tp.-J. Lambert vs D. \& Martha Farley \$624; Toronto-D. J. Storey \& Co. vs. Wm. Forbes et al. trustees $\$ 979$; J. H. Morin vs Wm. McMillan \& Co. et al. $\$ 354$; J. MacDonald \& Co. vs Scott \& Jennings \$331; Trafalgar TF-G. White \& Sons Co. vs Oscar Downs $\$ 425$; Bobgaygeon-J. D. Collins vs John \& M. O'Donnell \$578; Brant Tp.-Mary McCoppin vs Michael Duckett $\$ 2,000$; Caledonia-Noxon Co. vs Duncan MeGregor $\$ 3,601$; Harriston-J. Copland vs J. A. Copland $\$ 1,016$; Kemptville-A. Carson et al. exrs., vs G. E. Ballance and wife $\$ 613$; Ottawa-E. Eaves vs Bernard Benwick $\$ 423$; Owen Sound-Beli Organ \& Piano Co. vs T. D. Thomas \$571; Toronto-Hobbs Hardware Co. vs Anglo-Canadian Contract Syndicate, Ltd. et al. $\$ 5,952$; Royal Victoria Life Ins. Co. vs G. E. Buck $\$ 629$; I. Campbell vs Ontario Lum-

## WILLIAM BODDEN Y SOOT, Limited Spindle and Flyer Manufacturers.

Steel Spindles and Flyers and Ring Spindles of all kinds

For Spinning and Doubling Cotton, Silk, Flax, Wool, Worsted and other Fibres.

# SPINNING and DOUBLING RINGS. 

LONG and SHORT COLLARS, WHEELS, FOOTSTEPS and other Accessories for Cotton Machinery.
Repairs to Slubbing Intermediate and Roving Frames.-By our special methods
we ean make old frames almost equal to new, no matter how distant the Mill mas we can make old frames almost equal to new, no matter how distant the Mill may
be from our Works.

# Hargreaves Works, - - Oldham, England, 

## SPECIAL PRICES TO CANADIANS UNDER THE NEW TARIFF.

ber Co. $\$ 5,000$ damages; Grant-Hamilton Oil Co. vs A. J. Tyman et al $\$ 398$; Cardiff Tp.-T. Peters vs X. Peters $\$ 1,200$; Gananoque-Gurney Foundry Co. vs A. O. Brunette \$304; Hamilton-P. J. Galvin vs Henry Maxey \$434; Mid-land-Colonial I. \& S. Co. vs Louis and M. Chappelle \$314; Colonial I. \& S. Co. vs Robt. \& Mary E. Gray \$416; Ot-tawa-Estate of Cathe. Stewart vs Archd. Stewart \$26,110; Parry Sound-Page Wire Fence Co. vs Johnson Beveridge \& Co. $\$ 432$; Parkhill-S. LAllen vs H. C. Baird \& Son $\$ 500$ damages; Pembroke-W. Gray \& Sons vs Chas. Howard \& Co. $\$ 1,156$; Rat Portage-Colonial I. \& S. Co. vs E. H. Patmore $\$ 881$; Renfrew-H. Heeks vs A. W. Airth $\$ 321$;
Serena Lintz vs Fanny Hauin et al. $\$ 2,000 ;$........ Emily M. Davis vs Mutual Reserve Fund Life Assur. Co. $\$ 2,000$; . Selina Small vs N. J. Small $\$ 10,000$.

> JUDGMENTS RENDERED - ONTARIO.

Barton Tp.-E. Vansikle agt Henry McNally \$536; Guelph -Bank of Montreal agt Geo. Sleeman $\$ 82,151$; Osgoode Tp.-Waterloo Mfg. Co. agt Ebenezer \& Thos. Warren $\$ 457$; Palermo-Perrin Plow Co. agt Geo. Twiss \$302; Windham Tp.-S. W. Tomlinson agt Patrick MoSloy $\$ 453$.

[^2]J. Robertson Co. agt J. M. Heydon $\$ 733$; Farmers' L. \& S. Co. agt inos. MeQuillan $\$ 3,621$; Farmers' L. \& S. Co. agt Chas. Murray $\$ 14,726$.

JUDGMENTS RENDERED - QUEBEC.
Montreal-De. A. L. Snow et al. agt Joseph Lamarche $\$ 9,330$.

Bolton Centre-V. Lord agt D. A. Gray et al. $\$ 401$; Montreal-De. Cathe Vallee et al agt L. F. Rheaume $\$ 231$; St. Gregoire-J. Brosseau agt Alex. Brosseau et al. $\$ 481$; St. Jean-G. de Serres agt Wilfrid Brosseau $\$ 3,356$; waterloo-Bank of St. Hyacinthe agt J. H. Lefebvre $\$ 497$; Montreal-L. Beauvais agt Pierre Brossard \$431; T. Eecroyd agt C. F. Moseley $\$ 4,998$; W. J. Daly et al agt L. B. Pouliot $\$ 236$; Cambly Canton-O. Dubois agt Arthur Campagne $\$ 352$; Montreal-P. Kearney agt Alex. Lapierre $\$ 206$; G. F. O'Halloran agt L. D. F. Mayer $\$ 597$.

JUDGMENTS RENDERED-BRITISH COLUMBIA.
Blackville-Finlay McDonald $\$ 520$.
JUDGMENTS RENDERED-MANITOBA \& N.W.T.
St. Boniface-C. Bossuyt $\$ 34,461$; Sidney-A. Beatty $\$ 446$; Elgin-J. G. Kertcher $\$ 386$; Maniota-S. Hunter $\$ 1,322$.

JUDGMENTS RENDERED-NOVA SCOTIA.
Middleton-E. C. Gates $\$ 414$ and $\$ 2,846$; Sydney, Cokovia -J. E. Repley \& Co. $\$ 315$.

Telephone No. 6096, BANK.


THIRD
RAIL
INSULATORS.

## AMBROIN

Strong. Durable. Non-Hygroscopic. Perfect Insulation.

# ESTLER•BROTHERS, 

25 Laurence Pountney Lane, Cannon St., LONDON, E.C., Eng.

12 Special Terms to Canadians under the New Tariff.


## EXECUTIONS-QUEBEC.

Montreal-P. R. Goyet agt Israel Roger fils \$182; A. Manseau agt Delle U. Roy \$234.

Montreal-G. B. Burland agt Edmond Lepage $\$ 1,375$; Farnham-Rev. A. C. Larose esql. agt C. Boisvert \$5,206; Montreal-J. L. Patenaude agt J. R. Edmond $\$ 1,674$; De A. L. Snow et al. esql. agt J. Lamarche $\$ 9,418$; Farn-ham-Rev. A. C. Larose esql. agt C. Boisvert $\$ 5,198$.

CHATTEL MORTGAGES-ONTARIO.
Acton-K. Kopman \& Co. to Nerlich \& Co. $\$ 1,550$; Brigh-ton-R. E. Mikel to J. Tunyo $\$ 2,074$; Clarksburg-J. H.

## Contractors to Her Majesty's Government.

MICAFor Stoves to all Patterns. Chimneys for Incandescent Burners. For Ventilators,
Lanterns, \&cc. Lamp-Tops, Shades and Washers. For Dynamos and all Electrical Purposes.

## BRITISH MICA CO., Ld.,

23 Great St. Helen's,
LONDON, E.C., Eng.
Manufacturers of the "PREMIER", MICA CHIM-
REY. Vendors of all manufactured MICA GOODS, and of BLOCK MICA as imported from India. Correspondence with Canadian Buyers requested.

Tolegrams: "AWAKE, London."
> "CRYSTOGRAPH"' Transparencies of King Edward VII. and Queen Ilexandra. Original in Design.

> Rich in Colour.
> LANDEKER\&BROWN.
> 28-30, Worship Street,
> London. E.C., ENGLAND. Cuts will be inserted as soon as received.

Colling to Eliza M. Colling $\$ 1,000$; Dorchester Tp.-W G. Wilson to Sawyer \& Massey Co. \$591; Dundas-John Bertram to M. S. Wilson $\$ 5,204$; Hamilton-J. F. Cosgriff and wife to Grant Spring Brew. Co. $\$ 1,395$; Hamilton Beach-John Perry and wife to J. Gompf \$1,593; Harwich Tp.-John Carther to J. Goodison T. Co. $\$ 985$; Lakefield Tp.-F. I. Moore to J. Cooper $\$ 1,377$; Ottawa-P. A. Hudon and wife to S. J. Major $\$ 4,958$; Parry Sound-McKinley Wood Lumber Co. to Galna \& Danter $\$ 844$; St. ThomasRobert Sterling to J. Baird $\$ 1,200$; Toronto-A. E. Woltz to Fanny Larke $\$ 1,000$; Windsor-F. C. Kerby to W. B. Seadder $\$ 2,500$; Woodstock-J.J. Brunker to Carling B. \& M. Co. $\$ 900$; Peter Mitchell to C." Otterbein $\$ 1,000$; Ber-lin-Ellis \& Kain to Randall \& Roos \$1,419; DarlingtonJas. Leach to Ontario Loan \& Sav. Co. $\$ 12,811$; DundasJohn Bertram et al to M. S. Wilson $\$ 5,206$; Galt-J. F. Andrick to P. Bernhardt $\$ 2,000$; Geo. Laird to J. D. Moore $\$ 600$; Hamilton-Jas. Burgess and wife to E. A. Kuntz $\$ 724$; R. S. Fraser to J. W. Fraser $\$ 1,271$; HepworthJohn Russell to C. \& G. Watson \$725; Ingersoll-T. A. \& Celesta J. Bellamy to Emma Saunders $\$ 620$; KingstonMrs. M. \& S. J. Kilpatrick to R. E. Kent $\$ 600$; New-market-Whitesell \& Bradley to E. E. Allison $\$ 1,100$; Orillia-K. \& Robt. Harris to A. Margrett $\$ 900$; OttawaCharlotte E. Gallwey to Mary T. Whitley $\$ 700$; St. PaulDavid Elfenbein to Ray Street \& Co. $\$ 1,200$; St. ThomasR. H. Beattie to D. Rolling $\$ 2,724$; Thedford-W. C. Tudor to T. Parkinson $\$ 883$; Toronto-J. C. Brady to O'Keefe Brew. Co. $\$ 11,500$; J. C. Brady to G. J. Foy $\$ 4,000$; J. C. Brady to Kate M. Brady $\$ 19,500$; Henry Berck to L. Reinhardt $\$ 5,750$; Henry Berck to Cosgrave Brew. Co. $\$ 5,750$; J. E. Chester and wife to J. A. Carlau $\$ 4,803$; W. W. Cook to Cosgrave Brew. Co. $\$ 7,000$; W. W.



Cook to L. Reinhardt $\$ 7,000$; C. F. Lavender to O'Keefe Brew. Co. $\$ 3,500 ; \ldots .$. ....Thos. Cowan et al to Toronto Gen. Trusts Corpn. \$582; Negaunee, Mich.-H. Arland \& Co. to Ames Holden Co. $\$ 4,592$; H. Arland \& Co. to Ames Holden Co. $\$ 4,000$.

Fort William-A. H. Brown \& Co. to Gordon Ironsides \& Fares $\$ 560$; Greenock Tp.-J, F. Hanrahan to H. Cargill $\$ 2,272$; Hamilton-Edward Carleton \& wife to E. A. Kuntz $\$ 2,000$; Hondon-John Elliott and wife to Alice P. Charlton $\$ 2,790$; Preston-H. W. Evers et ux, to F. W. Meyers $\$ 830$; Puslinch Tp.-Donald and May McLarty to G. Hanning $\$ 848$; Sault Ste. Marie-Gleeholm Pension Ltd. and S. M. Dick to W. H. Hearst $\$ 1,463$; Tilbury East-David Dobertson to R. Bell $\$ 750$; Brockville-Thos. Tompkins to Brockville L. \& S. Co. $\$ 2,000$; Clifford-Mrs. Lavina C. Eckenswiller to J. Weir $\$ 1,346$; Dereham-G. H. Scott and Wm.

## Richard Green \& Sons,

13. Bartlett's Buildings, Holborn Circus, London, E.C., ENGLAND.
The Continental Table Glass Co
Illustrated List for the Colonies on Application.

## Crystal and Demi-Crystal.

Tumblers $-1 / 4 \cdot \mathrm{pt}$., $1-5 \cdot \mathrm{qt}, 1 / 2 \cdot \mathrm{pt}$., $3 / 4 \cdot \mathrm{pt}$. and 1 .pt. plain, out and etched. Barrel, Flanged, Conical and Straight Shapes.
Wines,-Clarets, Grogs, Elgins, eto. Bottles and Ups and Soda Tumblers.
Telegrams: " Caisse, London."
Outa will be inserted next week.

Stroud to R. H. Boyer $\$ 900$; Hillsburg-J. C. Cockburn et al. to R. P. Richardson $\$ 1,000$; Keewatin-L. R. Mackay to Bank of Ottawa $\$ 25,000$; L. R. McKey to Bank of Ottawa $\$ 21,007$; Niagara Falls-Fred. Sherin to T. Faweett $\$ 800$; Palmerston-W. H. \& J. W. Hilson to Deering Harvester Co. $\$ 605$; Toronto-Harry Gibson and wife to Toronto Brew. \& Malting Co. $\$ 7,755$; Harry Gibson and wife to Reinhardt \& Co. \$5,260; Windsor-Douglas \& Watson to Walkerville Brewing Co. $\$ 3,554$; John Harnett to Walkerville Brewing Co. $\$ 2,000$; Douglas \& Watson to Walkerville Brewing Co. $\$ 2,000$; F. C. Kerby to J. J. Kerby $\$ 2,427$;
-Wiarton Beet Sugar Mfg. Co. to National Trust Co. $\$ 150,000$; Berlin-Ephriam Ferrier to Theresa Kuntz \$4,506; Ralph Simpson to H. A. Simpson \$607; Commanda -Julius Evers to Can. Perm. Corpn. \$675; KingstonRichd. McLaren to S. Metcalfe et al. $\$ 4,100$; Owen SoundJames MeGeary to Port Huron Engine and Thresher Co. $\$ 700$; Toronto-Nellie Conor to McLaren \& Dallas $\$ 3,700$; Wm. Hamill to J. H. Hamill Co. \$2,601.

## Watertight Electric Bells.



## MERCIER'S PATENTS LIMITED,

SALFORD, MANCHESTER, ENG

## Telegrams : "WATCH, PRESCOT."

# The Laneashire W atch Co. 

LIMITED.

## AGHNTS HOR OANADA:

 Messrs. ELLIS \& Co., King St. West, TORONTO, OntCHATTEL MORTGAGES-MANITOBA \& N.W.T.
Carberry-T. R. Brough \$29,171; Winnipeg-Moore Printing Co. $\$ 800$; R. H. Scorer $\$ 700$; Broadview-P. S. Robertson $\$ 1,700$; St. Pierre-H. Frechette $\$ 3,000$.
Elkhorn-W. J. Dixon $\$ 607$; Sidney-F. Hucks $\$ 600$; Winnipeg-J. Fairbairn $\$ 589$; D. Hislop $\$ 15,475$; Qu'Ap-pelle-A. W. Badger \$6,500.

CHFTTEL MORTGAES - BRITISH COLUMBIA.
Chilliwack-Chilliwack Shingle Mfg. Co. \$14,029; Nelson -E. E. Phair $\$ 4,748$.
Cranbrook-F. E. Simpson $\$ 1,800$; G. R. C. Taylor $\$ 603$ and $\$ 866$; Nelson-J. G. \& C. Scott $\$ 700$; Vancouver-J. G. Campbell $\$ 1,062$ and $\$ 1,500$; H. Hemming $\$ 2,500$.

## bILLS OF SALE-ONTARIO

Sarnia-Sutherland Johnson to P. T. MeGibbon $\$ 800$; Dymond Tp.-P. H. Laird to C. E. \& G. Watson \$820; C. \& G. Watson to J. Russell \$725; Adam Watson to J. Russell $\$ 600$; Galt-A. W. Thomson to G. Bernhardt $\$ 2,500$; Port Arthur-M. S. Lyone to D. Elfenbein $\$ 2,050$; Windsor - A. Delisle to J. J. O'Brien $\$ 2,100$; West Virginia-The Great Lakes Copper Co. to D. P. Schuler $\$ 13,241$.
Midland-Turner Lumber Co. to R. Laidlaw Lumber Co. $\$ 16,000$; Little Current-James Loper to Confed. Life Assoc. 8740; Port Arthur-Neal Macdonald \& Wallace, Arehd. \& Thos. Baker to J. Conmee $\$ 9,000$; Collingwood Tp.-S. W. Babcook to Johnston White \& Co. $\$ 1,200$; Midland-Turner Lumber Co. to Skillings Lumber Co. $\$ 17,000$; Oshawa-R. W. and A. Chambers to W. H. Norman $\$ 4,527$; Parry Tp. J. W. Ryekman to Keenan Bros. $\$ 1,628$; Toronto-J. H. Hamill Co., Ltd. to W. Hamill $\$ 3,000$; McLaren \& Dallas to Nellie Connor $\$ 3,700$,

BILLS OF SALE-MANITOBA \& N.W.T.<br>Winnipeg-McNeil \& Irvine $\$ 1,700$.<br>BILLS OF SAALE-NEW BRUNSWICK.<br>Chatham-E. A. Strang $\$ 2,100$ and $\$ 500$.<br>BILLS OF SALE-BRITISH COLUMBIA.<br>Crofton-J. A. Broadwell $\$ 1,130$; Nanaimo-Grant \& Son $\$ 3,000$.

- Bay of Quinte Notes.-It is estimated that the farmers of Wolfe Island lost from $\$ 20,000$ to $\$ 35,000$ in damage to erops by a disastrous storm which swept the island. The huckleberry crop around this part of the country is scarce and poor in quality.-Things are booming at Melrose. The well has been cleaned out, and drilling hás begun again. Everybody is confident that oil will be struck before many more feet have been drilled. The excitement runs high. People who invested $\$ 5$ to $\$ 10$ in stock some time ago could now easily sell at an advance of 500 per cent., but refuse to do so. Any amount of money could now be easily obtained if any more stock in the entenprise were wanted. So says the Napance Beaver.-On the Deseronto market last Saturday wheat fetched from 60 c to 65 c . bushel; barley 38e to 40 c ; rye 45 c to 47 c ; and oats 27 e to 28c.-Duck hunting up the Bay is a favorite sport just now. The birds are plentiful, especially in and around Hay Bay. The disciples of Isaac Walton declare that bass fishing was never better in the Bay than at present. Some good strings have been secured, and the fish are of large size.Gilbert, McCaffry \& Gilbert, contractors, have secured the contract of grading the new line to Deseronto from Napanee of the Bay of Quinte Railway. The work will be in charge of Peter MeCoy, and be commenced at once.-Lester


Telegrams :-"Lumby, Halifax, Eng."

# Lumby, Son \& Wood, Lid., 

HALIFAX, ENGLAND.
Finest Catalogue in the Trade Post Free. Prompt Deliveries. Speolal tormas to Canadian buyers under mew Proforential Tariff

Worden has sold his mill purchased from the Ashley Estate, Colebrook, to W. H. Woodruff, of that place.-On Friday, at the Napanee cheese board, 1,014 white and 828 colored were boarded; 482 white and 560 colored sold at $93 / 4 \mathrm{c}$.-At Belleville, same date, cheese fetched $915-16 \mathrm{c}$; and in Picton $91 / 8 \mathrm{c}$.

Winnipeg Notes.-The official crop bulletin of the Territories places the yield as follows:-Wheat, $14,649,500$ bushels; oats, $10,725,500$ bushels; barley, 844,000 bushels. Secretary Bell of the Board of Trade has received word from Canada's agent that the Australian crops have failed and there is a great demand for Manitoba wheat.-The Molson's Bank have bought, it is reported, the Bird block, corner of Main and Bannatyne street, for $\$ 90,000$. - A bulletin on crop conditions in the Northwest Territories up to Sept. 1st has been issued by the Territorial Department. In reporting to the Commissioner of Agriculture, the deputy writes:-The leading feature of the crop situation is that the harvest is late. A frost occurred at the latter end of August, which was general throughout the Territories, and while reports sent to the department do not indicate that any damage has been done to the grain crops, there can be no doubt that at the time the frost occurred there was a considerable acreage of crop in a condition very susceptible to injury from this cause. There is, therefore, a strong probability that crops on heavy lands, especially in low situations, have been more or less affected. As indicated in the last bulletin, about 24 per cent. of the grain in the principle wheat districts was put in on stubble land, and crops in such situations are reported thin. The magnificent weather which has prevailed during the greater part of the ripening season has, however, to a large extent counteracted this defect by causing the heads to be particularly well filled.
-Washington advices state that Secretary Law has made arrangements to release about $\$ 4,000,000$ of the Treasury holdings. He has had a list prepared of those national banks throughout the country which held free or unpledged bonds at the date of their last report, and has made enquiry for others. After making allowance for changed conditions since last report he expects this will release at east $\$ 4,000,000$. He has sent notice to all such that if they will send these bonds to the Treasury ofthe United States in sums of $\$ 15,000$ or more, they will be designated as temporary depositaries, and the face value of the bonds will be deposited with them to the credit of the Treasury of the United States. He has pursued this course in preference to designating depositaries in the ordinary way, which compels them to buy bonds in the market at a large premium, thus paying out more for the bonds than they get from the Government. The Customs receipts are extremely heavy this year, and the cash balance of the Treasurer has been gradually increasing. Mr. Snaw has also decided to anticipate the October interest, amounting to about $\$ 4,200,000$, and with this in view orders
have been issued to the various sub-treasuries to eash such coupons as may be presented to them for payment, and the Treasurer of the United States has been instructed to mail cheques for interest on the registered bonds. All this was decided upon some days ago and letters and telegrams prepared for.
-Messrs. C. W. Rantoul, Jr., O. Aubin, Joseph Michaud, M.P.P., H. E. McKee, T. E. McKee, L. E. Bolster; M.D., H. G. Chessher, W. A. Cockburn, A. Fairbanks, and A. G. Davie, of Sturgeon Falls, Ont., A. J. Young and Geo. Gordan, of Cache Bay, have been incorporated as the Nipissing Telephone Co., Limited, with a share capital of five thousand dollars. They are authorized to operate a telephone service at Sturgeon Falls, Cache Bay, and other points in the district of Nipissing.-Messrs. Anthony Blum, of Boston, Mass., and J. G. Strong, of Toronto, have been incorporated as the Voleanic Reef Co.; Limited, with a share capital of one million dollars. The same parties have also obtained incorporation as the Laurentide Mining Co., Limited, also with a share capital of one million dol-lars.-The firm of Boyd, Caldwell and Co., general merchants, woollen manufacturers, and lumber operators, of the Village of Lanark, has been incorporated, with a share capital of $\$ 200,000$ - Messrs. Chas. Hood, A. J. Snow, and C. H. Carter, of Buffalo, and Oliver Master and W. M. Cram, Berlin, Ont., have been incorporated as the Baden Machinery Manufacturing Co., Limited, with a share capital of $\$ 40,000$.-Messrs. W. P. Telford, J. S. Pinch, and S. J. Parker, of Owen Sound, Ont., R. Sibbald, Adam Brown, and Hugh Reid, of the Township of Sydenham, have been incorporated as the Owen Sound Fruit Packing Co., Ltd., with a share capital of $\$ 25,000$.

## MR. J. HUTTON BALFOUR.

Among the changes resolved upon by the management and directorate of the Standard Life Assurance Company at the time of the retirement of Mr. Wm. M. Ramsay ${ }^{\text {a }}$ couple of years ago, was the transfer of Mr. J. Hutton Balfour, for the last eighteen years connected with the Canada branch in Montreal, for several years as Secretary, to the responsible position of Secretary of the company in Birmingham, England. Prior to his departure, the principal officers of the company, through Manager McGoun, on behalf of the local staff, presented Mr . Balfour with a silver loving cup. Mr. Charles Hunter, of Toronto, made an address and presented a cabinet of silver from the field staff. Complimentary speeches were also made by Mr. W. M. Ramsay and Dr. Robert Craik. There was for a time before the new choice of management, some expectation that Mr. Balfour would be asked to remain in Montreal in a still higher position than that which he so efficiently and popularly filled. He has the best wishes of hosts of friends for success in his future career.

## Widnes Foundry

## Company.

\author{

* ESTABLISHED 1841 .
}



## Morecambe Pier (East View).

ERECTED, 1898, BY

## THE WIDNES FOUNDRY CO. WIDNES, Lancashire, = England.

## WOOLLEN MILLS SOLD.

The Canadian Woollen Mills Company of St. Hyacinthe, Que., was sold on Wednesday last for the Royal Trust Company, and realized $\$ 295,000$. The purchase was made by Messrs. McDougall \& Lafleur, advocates. It is understood that the properties were purchased for a strong financial interest, Who have had the reorganization of the mills in hand for some time. An aplication for a new charter is, it is stated, being made, and the company will be reorganized under the name of the Canadian Woollen Mills Manufacturing Company, with a capital of $\$ 700,000$ of common stock. Bonds will be issued on the whole of the company's immoveable properties and plant at St. Hya-
inthe to the amount of $\$ 350,000$. |A by the purchase of a membership for substantial working capital has also an unknown Western man for $\$ 81,000$. been provided for and extensive additions and improvements are contemplated by the organizers of the new company.

## NEW BRANCH BANKS.

A branch of the Eastern Townships Bank has been opened at Sutton, Que. A branch of the Molsons Bank has been opened at Chicoutimi, Que.
-High records for Stock Exchange seats have been broken at New York
for and extensive addi- In addition to this sum, $\$ 1,000$ will be In addition to this sum, $\$ 1,000$ will be the price of initiation. Memberships were sold seven years ago as low as $\$ 13,500$.
-The revised official statistics of immigration to Canada during the year ending June 30 last will shortly be published. They will give a total of between 65,000 and 70,000 immigrants, of whom 22,000 came from the United States.
-Ottawa Clearing House.-Total for week ending 11th Sept., 1902: clearings, $\$ 2,238,188.19$; balances, $\$ 906,389.38$.

# GEORGE SKUDDER \& CO., 

## GLAND PACKINGS

For all kinds of Marine and Land Engines, Steam Hammers. Blowing, Winding and Hydraulic Engines.

## WOVEN PACKINGS

Are extensively used in Railway Locomotive Pistons and Valves, also by Coal, Iron and Steamship Companies, \&c

Patent Improved Nor-Conducting Compound, for covering Boilers, Steam Pipes, and all super-heated surfaces. For the Prevention of Freezing in Cold Water Pipes our Compound has no equal.

## 98 Tooley Street, And at SOUTH BERMONDSEY. <br> (Outs will be inserted next week.)

FINANCIAL REVIEW.
Montreal, Thursday, 18th Sept., 1902.

A rumour is afloat that the Bank of England rate will be raised this week, but it is not probable. The call for money in New York is not so urgent at present as to need shipments of gold from London, and there would be no urgency at all if the American currency system were modelled on that of Canada. The United Stat:s are full of money just now, trade is flourishing as never before; a splen-
did crop is being reaped, yet there has been such a scarcity of funds in New York as to have sent money up to panic prices.

The situation a few days ago was absurd enough for a comic opera. America is at times like a financial Miss McFlimsey, who, with trunks and bureaus full of costumes, had "nothing to wear"; so the States, with the Treasury vaults bursting with gold, at this season had no curreney resources available for the needs of the Western farmers. To enable the U. S. banks to issue more notes it was suggested in high quarters that they
be lent bonds as a temporary basis for extra issues, so the leading financial authorities in the States proposed to let the banks increase their circulation on the basis of securities they did not own, but which were put in there possession as a make-believe!

Fancy a nation revelling in prosperity, like the States, and money being as high as 20 per cent. as it was a few days ago. The marvel is that the stock market did not have a disastrous "slump" under such conditions. The cry is still for more gold, when the Treasury is fuller than ever before. on the 1st inst. there being gold coin and bullion on hand to the extend of $\$ 571,302,633$. "Starving in the midst of

## Cabie Address : EMLLS, Livèpool.

## EllLS \& COMPANY,

## LIVERPOOL, Eng.

Hams and Bacon Packed for all climates at the Lowest Possible Prices for Best Quality.

Confectioner, Crystal lized Fruits, Dried Apples, Pears, Peaches, Apricots, Plums, Currants, Raisins, Figs, \&cc. A trial order will convince buyers of the Superiority of our Goods.
spedial ageivts for

## Danish and Irish Butter in tims.

whate for our expoot palce list.
Buyers should specify ELLLS \& COMPANY'S Goods on all Indents.

OFPICE:
12 Hanover Street, - LIVERPOOL, Eng.
ter Special ratesto Canadians under the New
Preforentiai Tariff

## SOAP FRAMES

Patents-No. 5107/98; No. 10362/99.


Made of Special cold flattened, close-annealed Steel Plates, fitted with clamping bars. Weight complete, 5 cwt.
Esally Ereted. Self-Cauliking, Buaranteed not to Warp. Wheels and Arles fitted if required.
H. D. MORGAN, Patentee and Sole Maker Jamaica street, LIVERPOOL, Eng.
164.Soap Trade Suppliedunder the new Tariff eat

# The General Ineandeseent Co., Ltd., Worliss \& Warehouses: ILFORD. 92a Aldersgate Street, LONDON, E.C., Eng. 

(SOLD UNDFR LIOENSE FROM THE WELSBACH COMPANY.)<br>PRICE LIST.

1. G.I.C. Best Quality High Candle Power Mantle

4/6 doz.
2. G.I.C. Silk Mantle
3. G.I.C. Special Double Woven Mantle, Double Strength, very popular, specially recommended
4. G.I.C. Extra Long High-Pressure Mantle, suitable for all High-Pressure Burners "
5. G.I.C. Gem Mantle 4/6 "
6. G.I.C. Mantle for No. 4 Kern Burner 6/. "

Mantles Made to Customers Specifications at Lowest Prices.
Support British Capital and Industry. Without fear of contradiotion we can HONESTLY state that our G.I.C. Mantles are the best on the market, which statement is borne out by Gas C mpanies, Street Lighting Authoritles, Corporations, and leading Traders. best on the market, which statement is Every Genuine G.I.C. Mantle bears the Company's Trade Mark G.I.C. plainly stamped on the Mantle, and customers are


Special prices to Canadians undor the Now Tariff, $331 / 3$ p.c., in favour of Cenadians.
plenty" is the present financial position in the states. Our own banks seem inclined to take some advantage of this by advancing rates here, where there are ample funds for all requirements and a power of expanding circulation as far as is needed to meet the business of moving crops. The outery against Canadian banks having so much money in New York and Chiicago is, of itself, mreasonable, but if our bankers get in the habit of advancing rates in Canada because they are sending funds to a foreign market when high rates prevail, there will be such dissatisfaction as will not be quietened until legislation is sought to stop this practice. The New York pinch caused an uneasy feeling on the local 'Change, which, however, passed away when the southern sky was brightened by easier rates. Specuiators need take heed to their doings and resources, as, though not imminent, it would be no surprise here if a downward movement were to set in later in the year.
Money in London (which is treated editorially elsewhere) has become easier in ariticipation of the new issue of £2,000,000 treasury bills next week. The consequent increase of outstanding bills to $£ 23,130,000$ will probably be further advanced before the cio. of the year. The City \& District Savings Bank, Montreal, has increased its call rates from 5 to $5 \frac{1}{2}$ per cent. Pacific has been selling freely at 140 to $1401 / 2$; Dom. Steel, 70 to $751 / 2$, and preferred $991 / 2$ to $1001 / 4$; Detroit Railway 94 to $95 \frac{1}{2}$; Montreal St. 286; Power, $1001 / 2$; Toronto Railway $121 \frac{1}{4}$; N. S. Steel, 114; Ogilvie pfd., $1361 / 2$; Toledo Ry., 37; Cable, 1711/2. A few Bank of Montreal sold at 259 and 260 ; Merchants, 162; Molsons 218; Eastern Townships, 161; Commerce, $1641 / 4$; Dominion $1241 / 2$; Toronto, 248; Imperial. 239. Applications for stock in Metropolitan Bank are reported to have been in excess of the issue. Consols, $931 / 4$, but weak. Berlin, exchange on Lon-
don, $20 \mathrm{~m} 461 / 2 \mathrm{pf}$.; Paris, $25 \mathrm{f} 191 / 2 \mathrm{c}$. Money in New York from 6 to 10 , but getting steadier. Local foreign $\mathrm{ex}^{-}$ change 60 's, 9 ; demand, $93 / 4$. Call money, $51 / 2$ per cent, with tendency to restrict loans.

The following is a comparative table of stocks for week ending Sept. 18th, supplied by Chas. Meredith \& Co., Stock Brokers, Montreal.

|  |  | Averare same |
| :---: | :---: | :---: |
| Shares. |  | date |
| sold. Highst. | Lowst | 1901. |
| 83260 | 259 | 257 |
| 10218 | 217 | 204 |
| 70 2491/2 | 2491/2 |  |
| 4162 | 162 | 152 |
| 20161 | 160 |  |
| - $271631 / 2$ | $1631 / 2$ |  |
| . $151393 / 4$ | 1393/4 | 1411/2 |

## Miscellaneous.

Can. Pac. xd. . . 4831 1411/2 $1393 / 4 \quad 1111 / 4$ $\begin{array}{lllll}\text { D. S. S. \& A. com } & 25 & 20 & 20 & 11\end{array}$ Can. pac. new . . 860 1403/4 $1391 / 2$.. Mont. St. Ry. . . 1101286 2831/4 291 Mont. Power. . . $2055102 \quad 100 \quad 961 / 4$ Toronto St., xd. . $1234123 \quad 120 \quad 1171 / 4$ Halifax St. . . . $100 \quad 1093 / 4109 \quad 95$ Toledo Ry. . . . $600 \quad 371 / 2 \quad 361 / 2 \quad$.. Twin City... . . 730 1271/2 1253/4 1023/4 R. \& O Nav. Co.. $325 \quad 107 \quad 106 \quad 116$ Com. Cable. . . . 149 1721/2 $171 \quad 179$ Mont. Tele. . . . $23 \quad 168 \quad 168 \quad 170$ Bell Tel.

Dom. Cot. War Eagle. $28166 \quad 166 \quad 1731 / 2$ War Eagle . . |  | 175 | $621 / 2$ | $603 / 4$ | 84 |
| :---: | :---: | :---: | :---: | :---: |
| 00 | 18 | 18 |  |  | Republic. . . . . $500 \quad 9 \quad 9 \quad$... Payne . . . . . 2000 17 $17 \begin{array}{llll}16 & 15\end{array}$ N.W. Land prf. . $100 \quad 971 / 2 \quad 971 / 2$... Dom. Coal com_ $450142 \quad 1393 / 4 \quad 43$ B.C. Pack Assn. A. 25 991/2 $991 / 2$ Ogilvie pfd. . . . 600137136 Laurentide Pulp.- $30100 \quad 100$ Lake Superior. $25 \quad 243 / 8 \quad 243 / 8$ D. U. E. Ry. . . $5930 \quad 953 / 4 / 92$ Dom. I. \& S. com5245 $751 / 2 \quad 70 \quad 23$

Do. pfd. . . 685 1031/2 $\quad 991 / 2 \quad 771 / 2$ Nova Scotia . . $275 \quad 1153 / 4114$

## Bonds.

Mo. St. Ry
Can Co. . 100 1061/2 $1061 / 2$ Can. Col. Cotton5000 1011/2 $1011 / 2$ 98 Ogilvie. . . . . $3000117 \quad 116$ Dom. I. \& S. . . 10000 917/8 $913 / 4 \quad 78$ Nova Scotia. . . 1000 1091/2 1091/2 ...

## MONTREAL WHOLESALE MARKETS.

Thursday, Sept. is, 1902. The fall trade is opening up with the return of all who had been sojourning abroad, and there is an activity displayed in the leading lines which bespeaks a good autumn movement. Values are fairly steady. Dairy produce has advanced. Hardware is in good movement at steady prices. Leather is quiat locally but with a good export movement. The excellent harvest throughout the West is being safedy housed, and farmers are jubilant.

## BUTTER.

There has been a larger business passing, and prices have advanced $1 / 2 \mathrm{c}$ to $3 / 4^{c}$ on creamery; but there is no change in dairy. Large sales are reported of finest new creamery for export at $201 / 2 \mathrm{c}$ to 21c, also more doing in second quality at 19 c to $191 / 2^{\mathrm{c}}$. The advance has been unlooked for; it appears to have been caused by speculators taking hold more freely and also free buying by city jobbers. In dairy butter these has been more inquiry but prices al not advancing. Large offerings have resulted in holding the market from improving in price. Finest Townships sells in a jobbing way at 17 e to 18 c ; Western 15 c to 16 c and under grades at 14 c to 15 c . A few fresh rolls have been received from the West and sold at $161 / 2$ to 17 c .

## CEMENTS, ETC.

A scarcity now exists. Steamer with stock expected to sail for here Aug.

# CONEEYOR m EEEVTOOR CO. 

LOWER BRIDGE WORKS, ACCRINGTON, Lancashire, Eng.


Spiral Conveyors, Coal Conveyors, Chain Conveyors, Band Conveyors, Grain Conveyors, Tray Conveyors, Stokehold Conveyors, Grain Elevators, Coal Elevators, Chain Elevators, Belt Elevators, Bale Elevators, Barge Elevators, Ship Elevators 9508, Compound Floating Grain Elevators.

25, did not leave till Sept. 12th. Good pair. Venison, 7e to 8 c 1 lb . in careass; jobbing demand. Arrivals for week no saddles in the market.
were 97,830 fire bricks.

## CHEESE.

The market is reported firm but ap pears very quiet. Offerings are quite large and rather more than demand calls for. Sales of finest have been made up to 10 c ; Eastern $91 / 2 \mathrm{c}$ to $93 / 4 \mathrm{c}$. Some fine lots of Quebec make have been offering down to 9 c .

## DRESSED POULTRY.

First arrivals reached this market on Wednesday. Turkeys brought 11c to 12c lb.; ducks, 10 c to 11 c lb .; fowls, 7 c to 8 c lb .; chickens, 10 c to 11 c lb . Partridges are more plentiful at 90 c

## EI Padre Needles

10 Cents. Varsity,

5 Oents.
Whe Best

## - CIGARS

that money, skill, and nearly half a century's experience oan produce.

## Fade and Guaranteed by

 MONTPREAT, Que.

## EGGS.

Supplies are more liberal, but demand is rather disappointing. Export orders are not arriving as freely as looked for. Though the market is talked firm, still the feeling is quiet and slow with fresh gathered new laid eggs selling in lots at $153 / 4 \mathrm{c}$ to 16 c . Selections $181 / 2$ c to 19 c , and No. 2, 14 c to 15 c . First pickled eggs have appeared and offered at 16 c to $161 / 2 \mathrm{c}$, but are not much thought of, buyers preferring new stock even at an advance.

## FISH.

Considerable more doing this week, principally owing to Ember days. Prices steady except for fresh haddock, which has advanced to 5 c lb . In other fresh fish arrivals are ample and demand good, as the fall trade has now commenced. Salt herrings are scarce, with new stock hard to get; still there is some of last year's stock yet on the market. Dealers look for arrivvals of Labrador herring next week. In smoked fish there is a good demand for all kinds, such as haddies, kippered herrings, etc. Supply of these is reported by Leonard Bros. to be scarcely equal to demand. Altogether the fish market has assumed within the past week an appearance of confidence for a brisk season's trade. Quotations-Salt fish.-Labrador salmon, No. 1, $\$ 14$ per barrel; Loch Fyne herrings, $\$ 1.15$ per keg; salt herrings, bbls., $\$ 4.50$ to $\$ 4.75$ do. half barrels, $\$ 2.50$ to $\$ 2.75$; green cod, No. 1, $\$ 5.25$; do. No. 2, $\$ 4$; large, $\$ 5.50$. Fresh fish-Frozen Restigouche or Gaspe salmon, 16 c to 17 c ; B.C. salmon, 14 c to 15 c ; haddock, express stock, 5 c per lb .; pike, 7 c ; white-
fish, $81 / 2$ c. Smoked Fish-Smoked herrings, 10 c per box; finnan haddies, new stock by express, 7 c lb.; St. John bloaters $\$ 1$ per box. Prepared fish-Boneless cod, in bricks, 6c lb.; boneless fish, loose, in $25-\mathrm{lb}$. boxes, $41 / 2 \mathrm{c}$; dry cods, in ewts, $\$ 5$ per ewt.; skinless cod, in cases, $\$ 5$ a case.

> FLOUR AND FEED.

There is a good local demand all around, and prices of feëd hold. firm

## Ihe Canadian Pacific Rallway Company.

Dividends for the half year ended 30th June 1902, have beon declared as follows:

On the Preference Stock, two per cent. On the Common Stock, two and a half per cent.
Warrants for the Common Stock dividend will be mailed on or about 1st October, to Shareholders of record at the closing of the hooks in Montreal, for New York and London respectively.
The Preference Stock divldend will be paid on Wednesdsy, 1at October, to Shareholders of record at the closing of the books at the Company's London Office, 1 Queen Victoria Street, London, E.C. London, at 8 p.m., on Fridey, 22nd August, and in London, st $8 \mathrm{p} . \mathrm{m} .$, on Fridsy, $22 n d$ August, and in The Preference Stock books will close at \& p.m., on Tuesday, 2nd September. All books will be reopened on Thursday, and October.

By order of the Board
CHARLES DRINKWATER
M ontrel, 11th August, 1902.

## Municipal Debentures For Sale.

Waterworks, Sewer and Street Improvement Debentures of the Town of Hawkesbury:
$\$ 153,000$. for 30 years, at 4 p.c. 20,000 . for 20 years, at 4 p.c. For particulars apply to

DENNIS DOYLE,
Town Clerk.
HIRAM ROBINSON,
Mayor.
Hawkesbury, Ont,
August 22nd, 1902.

# JOHN HALLDAY \& SOII 

Wholesale and Export Manufacturers
Of Strong and Medium


## Men's,

 Women's and Children's BOOTSIn Sewn, Screwed, Wood-Pegged, or Rivetted.

## WARRANTED <br> ALL <br> LEATHER.

## BRAMLEY, LEEDS,

ENGLAND.
at last week's quotations. The magnificent harvest in the West, is being well taken care of, despite a shortag? in help, but this will be now speedily relieved by arrivals from the Dakotas and other border States, where harresting is pretty well finished. New crop No. 2 baled hay is selling in round lots at $\$ 7$ to $\$ 7.50$ per ton. We quote: Old crop, No. 1, $\$ 9.50$; No. 2, $\$ 8$ to $\$ 8.50$; clover, $\$ 7$ to $\$ 7.50$ per ton in car lots. Winnipeg prices No. 1 hard new crop Manitoba wheat on this date 71c and No. 1 Northern, 69c, Sept. delivery.

## GREEN FRUIT, ETC.

The season for plums is about over and whilst these have arrived in liberal quantities, good prices have been realized. As high as 60 c basket was paid for blue plums by dealers titis week. New lemons are dear. Quota-tions:-Jamaica oranges, $\$ 3.50$ to $\$ 6$; new lemoris, $360 \mathrm{~s}, \$ 3.75$ to $\$ 4.00$; do., $300 \mathrm{~s}, \$ 4.00$ to $\$ 4.25$; bananas, $\$ 1.00$ to $\$ 1.50$; new figs, mats, $31 / 2 \mathrm{c}$ lb.; do. boxes, 8 c to 12 c per lb .; new dates, $41 / 2 \mathrm{c}$ per lb.; cranberries, $\$ 8.50$ to $\$ 10$; onions, Spanish, cases $\$ 3$ to $\$ 3.25$; $50-\mathrm{lb}$ erates Spanish onions, $\$ 1.00$ per crt ; limes, 75e per box; bbls. apples, $\$ 1.75$ to $\$ 2.50$; Canadian peaches, 45 c to 60 c per basket; blue plums, 55 c per basket; Con. pears, 35 c to 60 c ; sweet
potatoes, $\$ 3.50$ brl.; Lombard plums, 50 c to 65 c basket; green gage do., 50 c to 65 c basket; champion grapes, 30 c to 40 c per 10 lb . basket; Malaga grapes $\$ 6.00$ to $\$ 6.50 \mathrm{keg}$; crab apples $\$ 2.50$ brl.; Tokay grapes, $\$ 2.25$ to $\$ 3.25$ per 4 basket crate.

## GREEN HIDES.

There are no changes in prices. Lambskins are reported to some extent the centre of unprofitable competition, as high as 70 c being paid for the mere object of securing.

## GROCERIES.

Sugars still unchanged. There is a firmer feeling, however, and a better movement is noticed. Prices advanced 5 c in New York this week on all hard sugars. Other groceries are unchanged as to values.

HARDWARE AND METALS.
No change in prices except in lath yarn, which has advanced to $111 / 2$. There is a shortage of manufactured steel and iron, jobbers reporting orders months behind in spring and toe calk steel. Prices are unchanged.

## LEATHER.

Trade is rather quiet locally, jobbing leather being still scarce and wanted. Kid and dongola sell freely. A leading Western tanner just back from the English markets reports very satis-
factory results. The export trade for the season will show considerably ahead of previous seasons in volume. OILS, PAINTS, ETC.
The white lead war is still on and prices show to-day that white lead will be sold at figures which are certainly. not warranted by the price of the dry article. Pure lead is quoted at $\$ 5$ to $\$ 5.25$; others in proportion. Turpentine has advanced 2 c to 69 c and 70 c .

## PROVISIONS.

Despite the advent of fall trade expectations, pork remains comparatively neglected. No doubt the recent reduction in price of beef, and the proportionately low price of lamb have assistted this neglect of meab that should be quite regular in demand. Smoked meats, on the contrary, are moving well, and prices are firm. Fresh killed hogs are worth $\$ 9.50$ to $\$ 9.75$ per 100 lbs . Lard is selling freely. Quotations are: - Barrels heavy Canada short cut mess pork, \$25.00; tierces heavy Canada short cut mess pork, $\$ 37.00$; half barrels do., $\$ 12 .-$ 75; Canada short cut back pork, (family), \$24.00; half-barrels do., $\$ 12.25$; heavy Canada mess pork, long cut, \$24; heavy Canada short cut clear pork, $\$ 24$; half-barrels do., $\$ 12.25$; light Canada short cut clear pork, \$24; heavy flank pork, $\$ 23$; best brand pure lard, 20 lb . pails, $\$ 2.15$; compound do., $\$ 1.80$;


Fams, $121 / \mathrm{c}^{\mathrm{c}}$ to 14 c ; bacon, 11 c to 15 c . -Chicagto, Sep. 17.-Provisions felt the effect of a raid in October pork, and closed 5c higher to 50 c lower. Future quotations: Mess pork, September, \$16.15; October, \$16.25; January, \$15.05; May, \$14.271/2. Lard, September, $\$ 10.75$; October, $\$ 9.77 \frac{1}{2}$; December, $\$ 8.95$; Jan., $\$ 8.55$; May, $\$ 8.121 / 2$. Ribs, September, $\$ 10.871 / 2$; October, \$10.05; January, \$7.90; May, \$7.65. Cash quotations:-Mess pork, per batrel, $\$ 16.15$ to $\$ 16.20$;lard, per 100 lbs ,, $\$ 10.621 / 2$ to $\$ 10.65$; short ribs sides, loose, $\$ 10.671 / 2$; dry salted shoulders, boxed, $\$ 9$ to $\$ 9.25$; short clear sides, boxed, $\$ 10.80$.-Liverpool, Sept. 17.Hams, short cut, firm, 55 s s 6 ; bacon. long clear middles, heavy, firm, 60 s. Lard, American refined, in pails, stea dy. 54 s .

WOOL.
The market is very firm with considerable wool selling. Of course the market here is limited, but a dealer just back from Ontario reports all mills as fairly busy. Cape is worth $161 / 2 \mathrm{c}$ to $171 / 2 \mathrm{c}$. Sales were made here yesterday at 17c. B. A.'s are also higher at 35 c to $371 / 2 \mathrm{c}$. Sales were made here Wednesday at 34 c to $371 / 2 \mathrm{c}$. The fifth series of London auctions opened on Tuesday with an advance of 5 to 10 per cent. on all wools except coarse cross-breds. A cable received here Wednesday read: Only a limited selection, advance of 5 to 10 per cent. on all medium and fine merinos. Another cable to-day reported a further advance of 5 per cent on merinos at yesterday's sales. This makes the situation here very strong, and
as stocks here are light, it adds to the firmness. Such heavy importations as were made here a couple of years ago are not being dealt in now. Considsrable Canadian fleece has been taken by Boston dealers of recent weeks. The feeling in the United States as reported on Wednesday is that prices are hardening, and that wool not sold today will be wanted to-morrow. Leading Boston wool dealers say they are feeling very easy about the market; that it is easy to sell wool, and at full prices. Fine territories are especially firm, with wools of a medium grade well held. It is thought that the very high position to which Texas wool has advanced may have checked trade somewhat, but holders are none the less strong in their ideas, with offerings very light. California wool is in pret

FOR INVALIDS, TRAVELLERS, DINNER, SUPPER PARTIES AND LUNCHEONS.
THE ELIXIR OF LIFE
By Appointment to Her late Majesty, Queen Victoria.

## T. K. BELLIIS'S real turtle soup AND JELLY.

TURTLE JELLY.
2/6 per Bottle. $30 /$ per Case, 1 dozen. TURTLE SOUP.
In pint Glass Flacon, 7/; Tins, 5/; do $1 / 2$ doz., in case, 42/; do. Tins, $30 \%$. Delivered Carriage Free in Great Britain.

LIVE TURTLE.
Pamphlet on Application.

Awarded Gold Medals at all Exhibitions.
These Articles are made from the product of Real Live Turtles, shipped from the West Indies twice a month.

Recommended by the Leading Physicians. PRESERVED TURTLE.

resentation by the Paris Exhibition of 1900, to the Journal of Commerce, Montreal,
The above Diploma is a presentation (M. S. Foley, Editor-Proprietor).
ty steady request, with a firm market. Fine washed fleeces are especially firm. Delaine wool continues very firm, with offerings light. Ohio and Pennsylvan'a washed delaine, 31c to 32 c ; No. 1, 30c to 31 c ; No. 2, 22e to 30 c ; coarse, 2 lc
to 26c. At Boston Australian wool is so firm as to be almost out of the question. The little offering is held too highly for the trade. In case a manufacturer must have Australian wool he has to pay the price.

## RHPANS

I suffered with indigestion for years. I thought I would stop doctoring and try Ripans Tabules. When $I$ had taken two 5 -cent boxes $I$ felt much better. I carry a box in my pocket and whenever I hear any person say they have headach I give them a Ripans Tabule and tell them They sweeten the stomach in almost no time.

## At Druggists.

The Five-Cent packet is enough for an ordinary occasion. The family bottle, 60 cents, contains a supply for a year.

Telegrams : "NEILL, ST, HELENS."
Telephone: "No. 20, ST. HELENS."

## Soap Machinery

- BONE AND TALLOW DIGESTERS
W. NEILL \& SON, EMEIMEERS, IROM \& BRABS FOUMDERS, BOILERMAKERS.


SOAP, OR, AND TAR SPECIAL PUMPS.
SOAP PANS, TANKS, MOIsTs.
swivels. ADAP FRHALHES STEEL SOAP FRAMES CRUTCHing machines New Bar.Cutting and Tabletting Machines. Mang ing $_{\text {ming }}$ unt Steàm Stamping
 With Fire or Steam Evaporation.

SOAP complith plallis


FILTER PRESSES,
In Cast Iron
or Gun Metal. CHEMIGAL PUNTPS, AIR COMPRESSORS, With Improved Valves.
anticisers. Agitators. Agtatars. FURAARES,
DHBHATIGAL Hoists, Craners,
OF EVERY DESCRIPITION.

all on Newest Design.


VERTIOAL FRAME PUMPŚ FOR LIGUORS. BRASS AND IRON CASTINCS
or man posamoea


ST. HELENS JUNCTION, LANCASHIRE, ENGLAND.

# Chemical Plant 

## PRIOESIIAND PARTICULARS ON APPLIOATION.

Speclal Prices to Canadians under the now Tarlff

British Commission; golf club, erected for the Mitchem golf club, at Mitcham Junction Station, Surrey; pavilion erected by command of H. M. the late Queen at Osborne, Isle of Wignt; offices
erected for the Royal Commission, Paris Exhibition, 1899; cricket pavilion, erected at St. Albans, Herts; Royal paDouglas, Isle of Man; golf pavilion at vilion, erected at South Kensington

Exhibitions; golf pavilion, erected at Edmonton, Essex; pavilions for South Africa; goods station at Brighton for the L. B. \& S. C. Ry. Co.

To this list might pe added many



Open to give Licenses for the Manufacture and sale of these Stokers in Canada.

## Pnoororese mesmwonc ...SHOVEL STOKER...

## And SELF-CLEANING BARS.

65
PER CENT. of ORDERS received are from old custom ers, many of whom have had the machine working 25 years. Over 9,000 furnaces have been fitted with this machine

20 per cent. more duty.
10 to 15 per cent: In Economy
The first and only Inventor of the Radial Shovel with Tappet and Spring.
The only moving Bars before the Public that oan be worked in three different ways:
1st.-As self-cleaning. 2nd.-Can be put in and out of gear and worked Intermittently. 3rd-As Handmoving Bars.

Sole Patentee of Steam Bearer to Prevent the Bar Ends Burning off. Largest Number of References in the Trade. The Stoker has been before the Public for over 25 years, and is protected by 10 different Patents.

## J. PROCTOR, <br> 

 Manufacturer for Canadians, under the new Preferential Tariff.
more, but sufficient is given to cause those already not acquainted with the extent and variety of contracts completed by the firm of Humphreys, Limited, to convince that this firm, whose manufactures are being shipped to all parts of the globe, are fully prepared to estimate on and furnish iron buildings of any design and size compatable with the greatest and minutest requirements of the 20 th century. A substantial reduction of duty now exists in the importing of goods from England to Canada, which alone gives an incentive to the furthering of our business relations with those of the Motherland. Write for illustrated catalogue, price-list, etc., to Humphreys,

Limited, iron building manufacturers, Knightsbridge, London, S.W., Eng.

## THE "TYACKE" SOFTENER.

There has been in use throughout Great Britain for some years, an apparatus for softening water for the various uses where deemed necessary which has met with such unbounded favor that the proprietors are now extending their scope of territory and are arranging for its introduction in other countries. A minute illustration

of the "Tyacke" water softener we here reproduce from which an idea may be gained of its make, extent and appearance. Testimonials by the hundred are being received from users, a few of which we here subjoin. From a pamphlet before us we extract the following: -

The "Tyacke" Softener.-The "Tyacke" softener is at work all over Great Britain, as well as in India, Africa, America and elsewhere. In all cases it has given every satisfaction, which has been amply proved by the fact that repeat orders are constantly received. It is acknowledged to be the most simple and effective machine of its kind in the market, the most easily worked, no skilled attention being required. Further, it is the most unlikely one to get out of order, as there are no working parts, in fact no complication whatever. Great care has been given to the design, and a glance at the block will show the solid nature of its construction.

FACTORS OF: Motor Accessories, Motor Bodies in Wood and Aluminum, Electrical Parts, Rubber Goods, Lubricating Oils \&c

Telegraphic Address:
"AUTOLATRY."

## AUTOMOBILE COMPONENTS, Limited,

## MANUFACTURERS OF

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


## 18-20 Church St., Islington,N.. - London, England.

NOTE-These Cars are supplied $331 / 3$ p.c., less to Canadians, F.O. B. London, under he New Preferential Tariff.


Above Cut represents the Latest Noveltiesin our

## "Meteor" Electric Light Cases

## Solid Silver Fronts, $5 \times 4 \times 3$.

Catalogues and F. O. B. London prices, under the new Preferential Tariff, $381 / 3$ p.c. reduction off British goods,
-MANUFACTURED BY-
EVANS \& MANGER, Hatton ${ }^{110}$ Gardon, LONDON, Eng.

The "Tyacke" Softener is dealing with all kinds of waters, some of which exceed 50 degrees of hardness, mostly permanent. Each machine is specially designed to meet the varying requirements, is started to work by an expert, and afterwards periodically inspected.

Careful analyses and exhaustive experiments, in order to determine the correct treatment, are made in each case.

Correspondence is invited, samples are tested free, and any of the installations can be seen at work at any time by appointment.
The company also holds patents for a combined heater and softener, as well as for a domestic machine suitable for large houses or villas, which have given excellent results in various parts of England. The company further own the patent rights of the "Slack and Brownlow" purifier,

Description.-The "Tyacke" softener consists of three tanks, the upper or reagent tank has a central division, so that one compartment after having been mixed, is allowed to settle while the other is being drawn off, and vice versa. This arrangement ensures a continuous and regular treatment.

The small central, or regulating tank, also has a central division. Each compartment contains a ball valve, one to control the head of hard water from

# Browett Lindley elo.tro. 

## Patricroft, Manchester England.

## Manufacturers of ;High-speed, Enclosed Type,

## STEAM ENGINES.

For Driving Dynamos Direet.

We are pleased to quote for complete STEAM DYNAMOS, completely and thoroughly tested on full load at our works and delivered F. O. B. English Port.

## Souno \& Reluble British Maluractuie


sTOOKA AND BONDS.

the source of supply, and the other the reagent from the top tank. In the front of this tank are fixed two bib cocks, actuated by one lever, to regulate simultaneously the flow of hard water and reagent. On the end of these cocks are attached nozzles, which are accurately bored in order to ensure the exact proportion. It will, therefore, be seen that, when correctly adjusted, no variation can possibly take place in the treatment.
After having passed through the two nozzles, the admixture flows through a trough into a down pipe that reaches nearly to the bottom of the -clarifying tank, which is designed to give the water ample time for complete settlement. Inside this pipe, a spiral, which imparts a rotary motion to the hard water and reagent, is fitter, ensuring a thorough mixture. At the same time the particles come into contact with the precipitate of previous operations, which greatly accelerates the treatment.

Inside the machine a cone is fitted to act as a mud eatcher, the sides of which are at an angle of 45 degwees. This arrangement makes the apparatus self-cleaning, provided that the bottom sludge cock is opened for a minuee or two once a day.
After precipitation, the water under going treatment, passes upwards by gravitation, through a thick bed of suitable filtering medium, and flows through an outlet on the top of the settling tank, clear, bright, thorough iy softened, and fit for mmediate use for boilers and other purposes.
A Few Testimonials:-From a wellknown firm of engineers.-Frank H. Tyacke, Esq., C.E., May, 1896.-Dear Sir,-With reference to the water softening apparatus, with which you supplied us about a year ago in connection with one of our boilers, we are pleased to inform you that it has acted to our satisfaction. (Signed) Merryweather \& Son, Ltd.
From a large colliery.-Frank H. Ty-
(3) กी GARDEN HOSE

## celivery hose beiting CCRD, MATIS SALVES, SHEETS



CAB tyres PNEUMATIC CUSHION

SOLID
TYFES


HEAD OFFICE \& WORKS VAUXHALLRE WHMRPOOTH ENGLAND


> ALL KINDS OF MECHANICA RUBBERS. INDIA RUBBER THRE

acke, Esq., C.E.-October, 1898.-Dear Sir,-our water softening arrangements at these and other collieries under my charge have given every satisfaction. I believe you thoroughly understand the process. (Signed) Geo. Fowler.
From a well-nown laundry.-The Water Softening and Purifying Co., Ltd. -November, 1895.-Dear Sirs,-I have great pleasure in stating that the "Tyacke" water softener you supplied some time ago is working well and giving great satisfaction. With the use of lime only as a re-agent, the water is reduced from 16 degrees to 5 degrees of hardness. I have another softener of the same capacity at work, but yours is far away superior, and from my large experience of water softeners consider yours the best apparatus on the market. I shall be pleased to give any information to any intending buyers. My opinion is that every laundry (where hard water obtains) is incomplete without a softener. (Signed) T. S. Taylor.

From Caleb Hitch, Esq., Ware.Erank H. Tyacke, Esq., C.E., November 1897.-Dear Sir,-I think it only just to let you know that after several month's trial of your apparatus, I am perfectly satisfied with the results. It does all that you told me it would. (Signed) Caleb Hitch.

From the Spes Bona Mining Co., Limited.-Dear Sir,-The Slack and Brownlow Purifier supplied to the above company is giving every satisfastion, precipitating the sulphate and neutralizing the water, so that it is perfectly free from all acids. The water from the mine, after going through the purifier, feeds direct iato our boil-
ers, this alone speaking volumes as regards the utility of the "Neutralizer." The treatment is simple, and only requires looking to twice per day by the engine driver, and I feel assured, when better known, the machine will be extensively used upon the Randt. I am, dear sir, yours truly, (Signed) D. S. Roberts, general manager.

Special terms to Canadians under new preferential tariff. Wriee for further particulars to The Water Softening and Purifying United Patents, Ltd., head office: 30 and 31 St. Swithin's lane, London, E.C.

JOHN MOIR \& SON, LTD.
Among the leading firms of Great Britain in the manufacture of jams, jellies, marmalade, table jelly powder, etc. is that of Messrs. John Moir \& Son, Ltd., whose London address is 9 and 10 Great Tower Street. The firm also has branches in Aberdeen and Seville. From one end to the other of Great Britain, in every household where fine jellies, jams, marmalade, etc. are used the name of John Moir \& Son is well and favorably known. To say more than this one could not, regarding the home trade of a well-established Eng. lish specialty firm; to say less would be giving this famous house not altogether the measure of justice which is its due. To attain such a degree of popularity it must be absolutely ne.
cessary for a firm in any line of domestic manufacture to fully suit all tastes, requirements and ideas, both as to flavor, make, price and any other features which may form a part of the multitude's desires or preferences.
To go into details regarding the riety of manufactures, for home and export demand, of this firm would be to print a heavy volume. We will, however, merely copy the index of this firm's catalogue which will give some idea of what details must come under the given number of titles. This firm are desirous of extending their trade in Canada, more particularly now as there is quite an incentive to trade owing to the heavy reduction of duty in favor of goods from Great Britain. The trade would do well, therefore, to write Messrs. Moir \& Son for price list, catalogue, etc, which contain details as to shipping terms and other valuable information for those handling such goods. This firm are manufacturers of marmalade, jams, jellies, and all kinds of preserved meats and fish, sole manufacturers and patentees of the celebrated table jelly powder the only jelly suitable for export. A delicious jelly, made in half a minute by the mere addition of boiling water. Sold in quart, pint, and half-pint packets ( 15 flavors.) Calfsfoot, vanilla, black currant, red currant, noyeau, lemon, raspberry, strawberry cherry, port wine, orange, pine apple, almond, apricot, champagne. Index of goods manufactured by John Moir \& Son Ltd.:-Almonds, almonds and raisins, American oysters, anchovy essense, anchovies (Gorgona), anchovies in oil, anchovy paste, appetiser's, The "Ilkley", apples (pine).

## RITCHIE LETHAM, Lta,

SOLE WEAVERS OF THE

Telegraphic Address: " LETHAM, OLDHAM." Telephone, No. 102.

The Warp used in the manufacture of this Belting is guaranteed to be made from the Best quality of the yarn known as Camel Hair Yarn.

Special lines in "Self-Lubricative" STEAM ENGINE AND PUMP PACKINGS.
Samples and prices free on application.

# Address: Waterloo Mills, Oldham, England. <br> \author{ Spocial Prices to Canadians under the New Tariff. -a 

}
apricot jam, apricots in syrup, army and navy rations, arrowroot, artichokes, asparagus, bacon, baking powder, barley, barley and groats (Robinson's), beans, French; beef, beef tea, beetroot, Bengal Club chutney, blacking (Day \& Martin's), black pepper, ground, blanc-mange jelly powder, breakfast delicacies, browning for gravies, butter (Bagger's), burnt onions, cabbage, calf's-foot jelly, candied chips and rings, candied peel, candles, sperm; capers, carraway seeds, carrots, caviare cayenne pepper, celery seed, cheese, chestnuts. (preserved), chillies, chocolate and milk, chutneys, chutney sause, citric acid crystals, cocoa and milk, cocoatina, cockscombs, cod fish, cod roes, coffee (ground), collared ox head, confections, concentrated beef tea, concomme, crab, fresh; cream of tartar, crystallized fruits, crystallized ginger, currants, Zante, curried preparations, curry powders, delicious chutney, devilled ham, devilled herrings, devilled
meats, Digby chicks, Duke of Edinburgh sauce, Durham mustard, eels, essences (flavoring), essence of anchovies, of beef, of rennet, extract of mea Moir's, Baron Liebig, Liebig Co.'s, figs, financiere, findon haddocks, fish, fish sauce, flavoring essences, flour (corn), flour extra kiln dried), flour, (Oswego), fondants, Frankfort sausages, French capers, French mustard, French olives, French peas, French vinegar, fresh herrings, fruits, bottled, crystallized, dessert, fruit syrups, fruits in syrup, fruits in noyeau and brandy, game, game pates, ginger, crystallized, ginger, ground, Gordon \& Dilworth's preparations, grouse, roast, Gruyere cheese, haddocks, haggis, Scotch, hams, ham and chicken sausage, hare, stewed, hare, jugged hare, roast, haricot verts harness composition, 'henbs (dried), herbaceous mixtures, herrings, herrings in fennel sauce, herrings a la sardines, Hoby's preparations, honey (California), honey, Narbonne; Indian


#### Abstract

Club chutney, infant's food (Savory \& Moore's), isinglass; Italian macaroni, Italian vermicelli, jams and jellies, jellies, table, jujubes, ketchup, tomato, kippered herrings, kippered herrings in butter, kippered salmon, lamb's tongues, lard, lemonade crystals, lemon juice, lemon marmalade, lemon squash, lime juice, lime juice cordial, London relish,lozenges, luncheon delicacies, lunch ham, lunch beef, lunch tongue, macaroni, macedoines, mackerel, malt vinegar, mango chutney, Mansell's table decorations, marmalade, marrow fat, Mayfair delicacies, Mayfair camp pie, Mayfair luncheon pie, Mayfair pates, meats potted, mince meat, minced collops, mock turtle soup, mulligatawney soulp, muscatel raisins, mudhrooms, mushroom ketchup, mustard, mustard, French (Bordin's); mutton, Narbonne honey, Nepaul pepper, Normandy pippins, Norwegian lax, oatcakes (Moir's), oatmeal, oil (salad), olives, olives farcies, onions, opening knives, orange


Telegrams : "ICERIMOS," London; "ICICLE," Durban. Codes in use : AI \& A.B.C.

## Refrigerating \& Ice Making Machinery.

THE "ENOCK" PATENT SAFETY COMPRESSOR is the Simplest, most Economical and most Modern Machine for Ice-Making, Cooling, Freezing, and Cold Storage Works.
Manufactured by us at our Works, Queen Square, W.C., Eng., and guaranteed to be of the Highest Excellency in Design Material and Workmanship. We carry out Cold Storage work in any part of the world.

We Undertake the Following in any part of the World :
To advise and report upon Cold Storage Projects. To survey sites of proposed works with Piers, Jetties and Sidings. To design and supervise the installation of Freezing and Cold Storage Works. To supply complete equipments, including Steam Boilers, Engines, Compressors, Electric Plant, \&cc., \&c.

## ARTHUR G. ENOCK \& CO., REERNGINETETM,

407 to 409 Birkbeck Bank Chambers, Southampton Buildings, Holborn, London, W.C., Eng.

marmalade, Oxo, ox-tail soup, ox tongues, Oxford sausages, oysters, Pa risian essence, Parmesan cheese, parsnips, partridge, roast; pate de foie gras, pate, cyclists', peaches in syrup,
pearl barley, pears (stewed), pears in syrup, peas, peel (candied), Persian sherbet, pepper (Cayenne), pheasant in gravy, pickles, pickled ox-tongues, pies (Melton-Mobray), pilchards, pine apples, pippins, plums, French, plum pudding, pork, potatoes, new (preserved), potted meats and fish, pouitry, powder, table jelly, preserved bloaters, Prince of Wales Indian pickle, provision opening knives, pudding raisins, quince marmalade, rabbit, stewed, raisins, raspberry vinegar, red herrings, rice, Patna, ground rice, roast duck, roast fowl, Russian caviare, Russian ox-tongues, sage and onions, sago, salade cream salad oil (sublime), salmon cutlets, salmon (fresh), salmon (Scotch), salmon trout, salt, sardines, Norwegian sardines, sauce (Moir's, Worcestershire), sauces, sausages, sausage meat, Scotch oatcakes (Moir's), Seville queen olives, sheeps' tongues, sherbet, shortbread, smoked red herrings, soaps, soda, soles, soups, soups, granulated, soy, sprats, spices, ground, spinach, splt peas, stewed beefsteaks, stewed kidneys, Stilton cheese, sugar, sultana raisins, sundries, syrup (golden), table jelly powder, table jellies, table salt, eamarinds, tapioca, tart fruits, tartaric acid crystals, the Seville orange marmalade, Tirhoot chutney, tomatoes (American), tomato conserve, tomato
puree, tomato sauce, tongues (ox),
tongues (lunch), tongues, (rolled ox), tables (French), vegetables, compresstowels (silk sponge), treacle (Scotch), ed; vermicelli, vinegars, walnut kettripe, curried tripe, truffles, truffle chup, whitebait, white wine vinegar, peelings, turbot, turnips, turtle soup, Yarmouth bloaters, Yorkshire hams, vanilla essence, veal, vegetables, vege- Zante currants.

## 

With the New Patent Lampless Ignition and Governor.


The Highest Class of Workmanship \& Finish
Requires no attention after starting. Ordinary Paraffin Oil only is used. Cost of working about $3 / 4 \mathrm{~d}$. per Horse Power per hour. No continuous Burning Lamp. No Skilled attention required. No Danger.

The Cheapest Oil Engine To Buy And the Cheapest to Work. Catalogues on application to the Manufacturers :
JAMES B. PETTER \& SONS, Ltd, Nautilus Works, YEOVIL, Eng,

# Panama - Hat • Company, 

## 59 Gresham Street, LONDON, E.C., ENGLAND.



## C. \&A. MUSKER, LTD., LIVERPOOL, ENaLAND.

 Hydraulic \& Electric Machinery.
$\left\{\begin{array}{c|c}\text { Dock Machinery, Presses, } & \text { Accumulators, Vaives, Trube } \\ \text { Coal Tips, Capstans, } & \text { Stavors, Dynamos, } \\ \text { Pumping Engines, Lifts, } & \text { Povor \& Iighting Plants, } \\ \text { Intonsilors. } & \text { Motors, Oranos. } \\ \text { Eydraulic Machino Tools, Stoam Motor Wagons, } \\ \text { Concroto Flag Malking Machinory. }\end{array}\right.$

Teleg:aphic Address: " Muskers, Liverpool.

## FRY, MARRIAN \& WELLS,

Head Office, - - 3 Mincing Lane, E. C., London, Eng.

ENGLISH HARDWARE<br>and CUTLERY GOODS.

SOLE EXPORT AGENTS FOR-
Messrs. SHRAGER BROTHERS, Calcutta. HESSIAN CLOTH and JUTE SACKS.
Special Terms to Canacians under the new Preferential Tariff.
Correspondence Invited.

Write for free catalogue to John Moir \& Son, Ltd., 9 and 10 Great Tower street, London, E.C., London.
G. BRAULIK.

## Electrical Supplies

Holding a prominent place as manufacturers and exporters of all electrica supplies is the London, Eng., house of G. Braulik, whose offices and works are situated at 217 and 218 Upper Thames street. Ever since electricity first took such firm hold of the world of machinery and proved its adaptability to such a wide list of commodities requiring power, the house of G. Braulik has been prominently identified with the latest, best, and newest improvements in this respect. The firm has made the electrical supply business a special study, has expanded in keeping with the growth of electricity itself, and claims to-day the proud distinction of standng at the top rung as regards everything, small or large, simple or intricate, pertaining to electrical supplies. With such a firm it is a pleasure to deal, and from such
a house it is a pleasure to receive supplies, because those who are fully competent both as regards knowledge of all parts, and in filling all requirements immediately, are the least liable to make errors or deal in that which through reason of faulty, hasty, or inferior construction, is liable to give inferior and transient satisfaction.

The following list gives an idea of the variety of articles in this branch of trade dealt in or manufactured and exported by the firm of G. Braulik:Indicators, bells, pushes, leclanche cells, bottle batteries, electric toys, small motors and dynamos, portable accumulators, telephones (a specialty). (Hunning's cone microphones), lightning arrestors, medical apparatus, complete X ray outfits, induction coils, incandescent lamps (ordinary and high voltage), battery lamps, volt and ampere meters, arc lamps (Koerting and Mathieson), fan and power motors for direct and alternating current, dynamos, carbons, switches and switchboards (main and branch), cut-outs, ceiling roses, electroliers, brackets, hall lamps, bronzes, standards, wires cables and flexible cords, glass boxes for accumulators, globes for are lamps, etc., bulbs for incandescent lamps, shades, all the latest patterns, opal,

## Holmes \& Co.,

Coach and Coach Harness Makers.

ADDRESSES:<br>LONDON: 37 \& 38, Margaret St., $W$. DERBY: London Road.<br>LICHFIELD: Bird Street<br>SHEFFIELD: Union Lane.<br>BURTON: Horninglow Road, ENGLAND. SPECIALITIES :

Noiseless Broughams,
Pneumatio and Solid Rubber Tyres.
Private Omnibuses, Motor Carriages, etc.
fancy, eut glass, etc., all accessories for the tradte kept in stock. A fully illustrated series of catalogues now ready. Free on application, to the trade only.

Re Arc-Lamps.
This is one of the firm's specialities, and they are now selling very large quantities of a lamp which is manufactured for them entirely in England under patents and is giving very great satisfaction. The main features of the lamp are its strength, and consequent durability, the simplicity of its working parts and the ease with which it is adjusted and its accurate burning. The lamps can be supplied either open or enclosed type, and for alternating or continuous currents.

The new "flame" arc-lamps which are selling so readily now, this house can also supply, having a first-class lamp on hand at a very reasonable price.

Another very important speciality is incandescent lamps and they can supply a guaranteed standard quality incandescent lamp, both high and low voltage at prices which it would be very difficult indeed to beat.
The firm is also in a position to supply motor car parts and also accessories for use in the motor car trade, such as volt and ampere meters, both pocket form and also dead beat, and will be very glad to give full particulars on receipt of letter from any intending purchasers.

They are also in a position to supply electrical accessories grenerally, and in fact, everything required for electric l.ghting at very reasonable prices; and they make a feature of prompt execution of orders as they keep a very large and well assorted stock in Lundon, also in Glasgow and Sydney, consequently indent orders can, as a rule, be shipped very quickly.

Telephones, bells, indicators, they also hold a large stock of and can compete very favorably with any other accessories supply firm in or out of the United Kingdom. Special terms to Canadian trade under new preferential tariff. Address, G. Braulik, manufacturer and exporter of electrical supplies, 217 and 218 Upper Thames street, London, Eng.

## "Sun" Ventilating Fans



Highest Efficiency, Strength and Lightness
made entirely of WROUGHT OR MALLEABLE IRON.

For Ventilating, Drying and all Cooling Purposes


SOLDAN \& COMPANY
If new and improved ideas did not occasionally appear in printing presses it would seem as though the world was diverting attention from that portion
ing confident that a full knowledge of in its entirety. A page from a cataits more simplified forms and improv- logue before us reads thused appliances will at once recommend it to printers, embossers, boxmakers, etc., for perfect color work, heavy work, half-tones, art illustrations, etc. The illustration here shown gives an idea

Something new! The very latest creation! The most improved. The "Germania" Platen Press; built on the colts-armoury principle, and considered by experts to be the finest achieve-

of its progress which has been responsible for a large share of the other improvements now enjoyed. But the printing press has not been neglected. Scarce a year elapses that we do not learn of some new appliance or alteration which simplifies while it improves the art of printing until we have at length arrived at a point which may be termed next door to perfection.

Considerable attention is now being attracted throughout Great Britain to the "Germania" Platen Press, a machine which has combined in its makeup many improvements which the ablest minds have hitherto failed to reach. The sole agents for this printing press for Gt. Britatn and the Colonies are Messrs. Soldan \& Co., of 27a Farringdon street, London, E.C., England. This company would be pleased to send detalls of the improved new press to any address in Canada, feel-
of this press, so that printers will have a pretty accurate idea of the machine
ment yet attained. Can be heated for blocking; exceptional ink distribution; the best machine for printers, embossers, boxmakers (creasing and cutting); the most improved machine on all points for color work, heavy work, half-tones and art illustrations. Only a few of the features of this platen:Frame cast in one piece, giving perfect rigidity; action of rollers stopped while machine is running; ink distribution is exceptional, 3 inking rollers coming in contact with distributor and a drum, the latter moving from side to side; can be run at great speed without vibration and the speed is only limited by the skill of the operator; impression throw-off is instantaneous; perfect parallel impression. Built in 3 sizes-No. 1, $103 / 4$ by $157 / 8$ inside chase. No. $2,131 / 8$ by 19 inside chase. No. 3 , $153 / 4$ by $215 / 8$ inside chase.

## HEADQUARTERS FOR BRUSHES



## JOHN MASON \& SONS,

Wholesale \& Export BRUSH IMANUFACTURERS,
28 South St., - MARYLEBONE, LONDON, W., Eng.
Factories :-Crawford Brush Works, Clerkenwell, E.C., Eng., and Stratford, Essex.


# W. B. DICK \& CO., Limited. 

RAPE AND COLZA OIL REFINERS.
Lubricating Oil Manufacturers, Linseed Oil Merchants and Boilers.
Speciality:-Pale Boiled Linseed Oil.
60 ST. MARY AXE, London, E. C., ENGLAND.
WORKS: ROTHERHITHE, S. E:


#### Abstract

Agents for Great Britain and the Colonies: Soldan \& Co., 27a Farringdon street, London, E.C. We heartily invite customers and intending customers to call and inspect this new platen at our show rooms at above address. Write for further farticulars, reduced duty under new tariff, etc., to Soldan \& Co., 27a Farringdon street, London, E.C., England.


## PATENT REPORT.

For the benefit of our readers we publish a list of patents recently granted by the Canadian Government, through tehe agency of Messrs. Marion
Marion, patent attorneys, Montreal, Can., and Washington, D.C. Information regarding any of these patents will be supplied free of charge by applying to the firm above mentioned:Alexander Blackie, Annapolis Royal, N.S., larrigan; Roderick Alex. McLennan, Russell, Man., roller bearing; Napoleon Gendron, Montreal, Que., faucet;

Eugene R. Vadeboncoeur, St. Germain de Grantham, Que., pipe coupling; Gilbert Emery, Brantford, Ont., speed mechanism for bicycles; Hermas LaRose, Vercheres, Que., baling press; Joseph Guindon, Montreal, artificial fuel.

Owen N. Evans, solicitor of patents and expert, Temple building, reports the following patents granted to Cana-dians:-United States-car coupling, T. F. Melancon; peat press, W. A. Milne; dredge bucket, A. W. Robinson; boom for dredges, etc., A. W. Robinson; hoisting gear for dredges, A. W. Robinson; steam shovel, etc., A. W. Robinson; ditching machine, Thomas Bearman; perforating machine, T. Hawthorne; carbureter, F. Paul, Jr., et al.; air cooling and purifying apparatus, C. W. Vollman; signaling machine, H. L. McGowan. Great Britain-Engines, F. H. Sleeper and E. A. Mahon; generation of gas, F. Paul, Jr., et al.; split collars or the ike, John Lumsden; freezing apparatus, C. W. Vollmann; suspenders, R. P. Robinson, et al. France-Engines, F. H. Sleeper and E. A. Mahon; suspenders, R. P. Robinson et al.; lamps,

## SINCLAIR \& Cois.

## Comet Industial Lamp

For Agricultural Purposes. Bupning Quitch Grass, Stubble and Destroys Seed of Weeds.

Telegraphic Address: "EXTINCTUM, LONDON."

Price : $\overline{£ 8-15}$, F.O.B.<br>19 Eldon St., LONDON, E.C., Eng.

# GOLD MINERS DRILLSSTEEELS 

## Steel Fergings And Castings.

## Horse Rasps, Files, Etc.

Sole Manufacturers of
"SOHO" Special Self-Hardening Steel"
Best and Cheapest cn the Market.
Canadians have $331 / 3$ p.c., in their favour, by purchasing these English goods from us, under the new Canadian Preferential Tarifit?

Sole Manufacturers of

HOBSON'S' "CHOICE" Extra Quality NEEDLE WIRE, as supplied to leading consumers for 90 years, in the United States of America.
apecialty for Machine or Hand Drilling. Established upwards of 100 Years.

# HOBSON'S "CHOICE" (XX) Extra Best \& "Warranted" Best Cast Steels, 

 Cast Steels,}

FOR TOOLS, \&c., \&c.

for the best Mexican. However, to offset this advantage, we have the advantage of the finest tropical climate in the world-no hurricanes (Tahiti being outside of the "hurricane belt," which only reaches the Raratonga or Cook Islands, 600 miles to the west), no malaria or fevers, no poisonous serpent and but few noxious insects-and have a gentle, friendly ruce of natives to live among.
We have here in cultivation two varieties of vanilla: V. planifolia, grown only in very limited quantities, as, owing to the tendency of the bean to split when nearing maturity upon the vine, and afterward during the process of curing, it does not appeal to the native
grower, and the variety in common cultivation, which is that known in Mexico as pompona. Both varieties were originally brought here from Mexico. V. panifolia produces the true vanilla, while pompuna yields what is known in Mexico as vanillon and in the London market as vanillos. V. pompona, although yielding such an inferior quality of fruit, has advantages which endear it to the Tahitian. The bean does not split; it can be cured by simply exposing it to the sun not requiring to be dipped in hot water or subject to a process of baking (as do the others; and it always gives two and sometimes three or four crops of flowers during the year, while plani-

## The GLAYTON EIIGIIEERING \& EEECTRCCL CONSTRUCTION COMPANY, Limited.



HEAD OFFICE AND ENGINE works :
Newton Evide, mear Manchester, Eng.
ELECTRICAL works :
Clayton, near Manchester. Eng.
Telegraphic Address : "DYNAMO, HYDE."
Telephone: N々. 62, HYDE.

DIRECT-COUPLED.....
High-Speed Plants

Traction or Lighting,

## Alexander Oldham \& Sons,

Johnson Brook Patent Piston Works, and Engineering Works DUKINFIELD,

ENGLAND.

# Verrical \& Horizontal Steam Eneines, 

From 2 H.P., up to 500 H.P.


Ice Making Machinery, Cylinder Boring Machines, Machines for Planing Valve Faces in Position, Lubricators, Injectors, Pistons, Air Pump Buckets, Fans, Metallic Piston Rod Packings, etc.

Illustrated Price Llists giving approximate welghts will be sent on application.

the roots of the remaining ones. Upon hillsides where the purao (a species of Broussonetia) grows, the vanilla is at home. In fact, it is a mistake to plant it upon level land, as, although the vine revels in moisture, the roots are very impatient of water lying stagnant about them. The purao is, however, a rapid-growing tree, and considerable labor is required in pruning in order to keep it within bounds and prevent it from overshading the vanilla, too much shade being even wonse than too little.
The best situation for a vanilla plantation is on a hillside, preferably in a valley, not too near the sea; and the best system of planting, for one wh') can afford to wait, is to clear off all the trees which may be growing upon it, and to plant at resular intervals young trees or posts, of varities which will grow from cuttings. In my experience the best is a small tree known locally as pini, a species of Bauhinia, and which will grow in two years to a height of from twelve to fifteen feet. The usual distance apart for the posts is six by eight feet. When these posts are in place, the vines are planted as Mr . Carter says, ony that we usually use cutting of ten or twelve feet in lengths. When cuttings of this length are used a crop of beans is secured nine months or a year sooner than when short lengths are planted. We reckon on a small crop of cured beans eighteen months after planting, and a full crop in two years and a half.
The flowers, which last but one day,
open about 7 a.m., and close about 3 p.m., and have to be pollinated by hand during that time; that is, all those which open upan one day must be pollinated the same day. We use small, pointed sticks for this purpose; the pollen, which is a small compact mass, being transferred more rapidly by these than by any other method that has been tried. A very expert worker can pollinate three hundred thousand flowers in one day, but most are satisfied with from fifteen hundred to two thousand.
About nine months after the flowers appear, the beans become mature. The stage is known by their changing in color from a dark to a light-yellowish green, or by their becoming brown at the lower of flower end, when they must be picked and taken to the house * to undergo the process of curing, which should occupy about three months. They can be cured in a shorter time, but always at a sacrifice of quality. This is the most important work of the vanilla planter, and entails constant care, as a few days' neglect may spoil the whole crop. This, I think, partly explains why Tahiti vanilla has such a bad name in the markets of the world. Most of the native planters cure their own crop, but they will not give the necessary attention to this work. There is no secret about the method of curing, although some pretend that there is. It consists in alter nate exposure to the sun, always under dark-colored blankets, and sweat-
ing in the house in tight tins or boxes. Experience is the only teacher as to when the bean has arrived at the proper stage of dryness.
The vanilla is essentially a terrestrial orchid, and derives a large part of its sustenance from the soil. In proof of this, in any old, neglected plantations planes may be found which have been uprooted or broken off. When this happens, the part of the vine which is left at once takes on a sickly, yellow hue and sends down long roots-I have seen some of these over thirty feet long-which on reaching the soil take root, and the vine at once recovers. The small tendrils do not feed upon the trees to which they cling, these being simply used as anchors for the vine. This refers to live trees; when the tendrils come upon a decayed branch, or when the tree upon which the vanilla is trained dies, they then change their character, becoming elongated and entering into the decayed places as proper roots, and evidently feed upon it.
In estimating the possible crop and probaby profit, an lestimate of four beans to a vine is ridiculously small. If a vine has only one bunch of flowers, that ought to give from eight to twenty flowers-we usually have eight to ten beans to a bunch; but it is a very poor vine which does not give in the year over ten bunches of flowers. However, to be safely within the mark, let us say that each vine averages five bunches of flowers, giving six beans to the

# Machines for Boxmakers <br> Inventors, Patentees and <br> Manufacturers of <br> Machines for Making Boxes Without Glue or Paste-Fastened with Metal. 



## DRY PROCESS.

Price Lists and Samples Submitted with Pleasure.

# The REMUS COMPANY, Ltod, 

30, 32 \& 34 Tabernacle Street and 8 Castle Street,
LONDON, Eng.


#### Abstract

bunch, or thirty beans to the vine. This will give 3,000 beans to the hundred vines. Taking these at a hundred and fifty beans to the pound, the usual average, we have twenty pounds as the crop. This at our average price of six shillings gives six pounds sterling, or at the price mentioned by him -twenty shillings-twenty pounds. One thousand beans and they must be the best-will weigh fifty pounds, but only when they are green; and in the process of curing they lose at least three-quarters of their weight. Figures, however, are sometimes misleading, and I cannot do better than give as an example the result from a small plantation in which I am interested. A careful account of the expenditure and receipt has been kept. At the end of three years and a half from thie time of planting the vines we have paid back all that has been expended upon them, and have a small balance in hand. A maw here with three or four


cres of vanilla has a competence; with $t=n$ or more he is rich; and for one who likes to potter around among flowers in the temperature of a greenhouse I cannot imagine a life more attractive.
By the way, although the fruit of the - vanilla is in no sense a bean, it is invariably called by that name.
Our vanilla is one of the most speculative crops, rivalling hops in that respect. I have known it to sell for two shillings a pound-that was ten years ago, and it has never gone below four shillings since and again for sixteen shillings. The average price, however, is six shillings; and, as we estimate that it costs two shillings per pound to grow and cure, a fair margin of profit is left for the grower.
I will conclude with a little information for brother planters. Vanilla possesses two irritant poisons, which, like some other vegetable poisons, act differently upon different individuals. To


## NO CREEPING.

 NO PUNCTURES. NO INNER TUBE. PERFECTRESILIENCE.

Write for Particulars and Price Lists to

THE SECRETARY

## Martin Pnoumatic Tyre Sundicate,

SUFFOLK HOUSE,
Laurence Pountney Hill,
LONDON, E.C., Eng.
Telegrams: "PENSATIVO," London.
Has Beaten all Records for Enduring Qualities.

## MATTHIIS, SPELICER \& SOMS,



These Mining Tools are manufactured for the Canadian Market under the New Preferential Tariff, which favours Canadians.

hatchet Handle chargel extra.

Steel Works,
a few they are innocuous. The juice of the vine, oven the rain or dew from off the leaves, produces in some an itching sensation somewhat resembling "prickly heat.' The dry or partially dry beans prousuce small blisters on the hands of some of those constantly handling them, and in extreme cases sores upon the arms and body, which all itch incessanuly. I have suffered slightly for years from these, and have only lately found what seems to be a cure; in my case it has proved a specific. This is carbolic acid. I use a mixture of equal parts of carbolic acid, glycerine and rosewater, rubbed on upon going to bed. I have tried the same remedy upon a number of natives, and have cured them all. Washing with Calvert's 20 per cent. carbolic soap, after handling the beans, acts as a preventative.

INSURANCE DECISIONS.
Fire Insurance Unconditional Own-ership.-Where an insurance agent, when he writes a policy, knowing that insured is not the unconditional owner of the property, and the insurer accepts premiums, an "unconditional ownership" clause in the policy does not work a forfeiture. O'Brien vs. Greenwich Ins. Co., 68 S. W. Rep. (Mo.) 976. By-Law of Mutual Company-A bylaw of a mutual insurance Company, which provides that the company shall not be liable for any loss that may occur while a member is in default of the payment of a legal assessment, is a reasonable by-law, and will be up held. Farmers' Mut. Ins. Co. vs Kinney 90 N. W. Rep. (Neb.) 926.

Policy of Reinsurance.-Where a reinsurance policy consists of an ordinary fire policy, to which a rider is attached, containing the substantial part of the agreement for reinsurance, a provision in the ordinary policy form limiting the right of action for loss to one year after loss does not apply, but the six-years' limitation applies, as in case of any other policy of reinsurance. Alker et al. vs. Rhoades et al., 76 N . Y. Supp. 808.

Fraternal Insurance-Suicide while Insane.-Under a life policy providing against recovery in case of death by suicide, and that if insured died as a result of any act which, had it been done by him while in possession of all his faculties unimpaired, would be deemed self-destruction, that there can be no recovery, suicide during insanity avoids the policy. Keefer vs. Modern Woodmen of America, 52 At. Rep. (Pa.) 164.

Accident Insurance-Entering Moving Car-Under an accident policy providing that no benefit is to accrue for any death or disability resulting from entering or attempting to enter a moving conveyance, where the insured is killed by relaxing his hold on the killed by relaxing which was suddenly started after he had attempted to enter and after he had held on for a distance of about two blocks, his beneficiary is

## A BIG SHLLRRI!

## Everyone in the Trade should stock them.



Manufactureo
Solely by
The $\xrightarrow{ }$
Lancashire Steam
Confectionerv Co.,

## LIVERPOOL, England.

entitled to the insurance. Terwilliger rs. National Masonic Acc. Ass'n, 63 N. E. Rep. (III.) 1034.

Fire Insurance-Notice and Proof of Loss.-A fire policy was destroyed by the same fire that destroyed the property insured therein. Insured requested of insurer a copy of the policy, which was refused, and verbally notified the general agent of the insurer of the loss, furnishing at his request a list of the property destroyed, which was returned to him with the statement that a copy to be retained by the agent was unnecessary. The destroyed policy in fact required proof of loss to be made in a particular way, but this was not mentioned by the general agent, when notified of the loss. Held, that the provision of the policy requiring notice of loss in a particular form was waived by the company. Thompson vs. Traders' Ins. Co. of Chicago, 68 S. W. Rep. (Mo.) 889.
Fire Insurance-Authority of Wife. -Plaintiff insured his household furniture, including a piano belonging to his wife, with defendant. The policy provided that it should be void if the insured had or procured other insurance on the property without consent. His wife obtained additional insurance on the piano. He did not know of her act until after the property was destroyed by fire. Rev. St. art 2967, provides that during the marriage the husband shall have the sole management of the property of his wife. Held that, as the wife had no authority as owner or otherwise to insure the piano without her husband's consent, her act did not bind her husband or affect the policy issued by defendant. National Fire Ins. Co. vs. Wagley, 68 S. W. Rep. (Tex. Cic. App.) 819.

Life Insurance-Estoppel to Claim Forfeiture. The holder of a life insurance property which provided that premiums might be paid to an agent of the company, but only in exchange for the company's receipt, was notified by the company that the receipt for a premium had been sent to a certain bank, and that payment could there ibe made. On the last day for such payment it was found that, by direction of the company, the bank had prevously returned the receipt. There was no other agent in the place who was authorized to receive payment, and the company refused to accept it thereafter without a health certificate, which could not bel furnished, and the premium was not paid. In an action on the policy after the death of the insured, the only defense was that of forfeiture for nonpayment of such premium. The jury found for plaintiff, under instructions that such a verdict could only be returned in case it was found that payment of the premium was prevented solely by defendant's withdrawal of the recelpt, and there was evidence which supported such a finding. Held, that defendant, having, in violation of its duty under the contract, withdrawn the receipt, and thus prevented payment of the premium except on a condition which could not be complied with, and of which fact

Telegraphic Address:-" Dazzle, Manchester." A.B.C., Code.
 J. S. LEACH. \& © 0 , Ltd.

Engineers, Tin and Copper Smiths.

Designers of Special Maehinery.

Broughton Bridge Iron Works, SALFORD, MANCHESTER. ENGLAND.

## D. \& S. Elecirical Accessories. CIRCUIT BREAKERS

Automatic Maximum, Minimum, and Reverse Ourrent
WITH PATENT "GRIP" CONTACTS.
Sena Brautries to:-

## DORMIAN \& SMITH.

Head Office and Works:-
Ordsal Electrical Works,
And st SALFORD, MANCHESTER, Eng. 94, Charing Oross Road, London, W.C., Eng 56, Margaret Street, Sydney, N.S.W.

Telegrams:-MYTHOLM MILL,
LIEBERS CODEUSED. Hebden Bridge, England.

## Mytholm Steam Wagon Co.

## HEBDEN BRIDCiE, Yorks, England, <br> Makers of the <br> "Mytholm" Patent Steam Wagon,

For Rapid and Economical Transport of Heavy Goods.

Special Features,
Latest Improvements.

Prices and Particulars on Application to
Sole Makers.


Will carry up to 5 Tons. trincham Show, 1900.
T. "CHALLINER," Manchester. "INAUDIBLE," London.


## INCLUDING THE CUP TYRE

 Specially adapted for Motor Cars, Omnibuses, \&c. Over 1,000 tons supplied during the last 12 months. Made in eight sizes to suit all classes of Ve hicles.
## NOTED FOR

Comfort, Combined with Strength and Durability.


The King of the Wired-on Tyres.

# Manchester, Eng: Registered Office and Works, Kay St., Ardwick (ireen. London, Eng: Office and Works, 24 Page Street, Westminster, S. W. WRITE FOR DESORIPTIVE PRIOR LIST. 

the ev:den ee tended to show it had previous knowledge,was estopped to claim a forfeiture beeause the payment was not made or tendered. Provident Sav. Life Assur. Soc. of New York vs. Dunean et al., 115 Fed. Rep (U. S. C. C. A.) Tenn.) 277 .

Delivery of Policy During Illness.Where insured is sick on the day on which he receives his life policy, which provides that the company shall not be liable if he is not in good helth when he receives his policy, but such sickness is of a trivial character, and does not affect the risk, it is not a defence to the policy, though he never recovers from the sickness. Woodman vs. Locklin, 67 S. W. Rep. (Tex. Civ. App.) 331.
Discrimination in Rates.-An insurance company may discharge its debt to its agent by issuing a policy of insurance on his life, provided he is charged the same rate that is charged other insurants of the same age and equal expectation of life but if the company agrees to pay him for his services more than they are worth, with the design of giving him a rebate on premiums, there is a violation of the statute. Equitable Life Assur. Soo. of United States vs. Commonwealth, i7 S. W. Rep. (Ky.) 388.

Exercise of Option.-Under provision of a life policy payable to the wife, or, in the event of her prior
death, to the children of insured, that it may be converted into cash, at $\cdot \mathrm{p}^{-}$ tion of the "holder," the option can be exercised only by the wife and children jointly, all the parties being aliv :. Entwistle vs. Travellers Ins. Co.. 51 At. Rep. (Pa.) 759.
Extent of Warranty.-If the question asked relates to a matter upon which the insurer should know that the insured could not have the knowledge to fully answer, the warranty will not be held to be more than a warranty in the fair sense of the question, namely, to the Telief of the insured. Henn vs. Metropolitan Life Ins. Co., 51 At. Rep. (N. J.), 689.
Surety on Agent's Bond.-An insurance company employed a person in December as "assistant superintendent of the thrift department in connection with its Wilmington agency." His duties were to procure agents and to inspect, canvass, and collect for the company. Aiterwards, in January, the defendant company insured the employer against loss by larceny or embezzitment by the employee. In April a new contract was made with the employee, in which he was designated "district manager," "agent," and his field c! operations made to embrace six counties. It provided that all agreements previously made should be superseded, and that the employer should aeposit a bond with two sureties. The Decem-
ber contract required a bond with only one surety. Held, that the April contract increased the business and territory in which the employee sperated, and discharged defendant from liability. Sun Life Ins. Co. vs. United States Fidelity and Guaranty Co., 40 S. E. Rep. (N. C.) 975.
Time Within Which Suit may be brought.-Under a life policy providiag for payment in ninety days after satisfactory proof of death, and objection to such proofs, which in no way impeaches the sufficiency of the showing of the death of assured, but complains as to the condition of his health whem first insured, shows no ground for delaying action more than ninety days after such proof is submitted. Bakers' Reserve Life Ass'n, vs. Finn, 89 N. W. Rep. (Neb.) 672.
Fraternal Insurance-Disappearance of Insured.-When a policy or certificate evidencing a contract of life insurance expressly stipulates that "the disapeparance or long-continued absence of the insured, unheard of, shall not be regarded as evidence of death. or any right to recover until the full term of expectation has expired," the person named as beneficiary in such policy is not entitled to maintain $\cap n$ action thereon on the theory that the insured had disappeared, and his not been seen or heard of for a pertua exceeding seven yars, without alleging

## Makers of all kinds of DYEING and Finishing Machinery.

# ELKANAH HOYLE \& SONS, Limire, 

# MILLWRIGHTS. ENGINEERS, MACHINE MAKERS. AND IRONFOUNDERS, 

## F. HORATIO OLIFFE. Managing Disector.

Waterside Works, HALIFAX, \#NG,

Sole Makers of Measrs. Samuel Eirk \& Sons' Woodhouse, Leeds, Patent Machines for Improved Cloth Finishing.
Sole Makers of Reffitt's Patent Pressing Machine for Sofit Goods.
Sole Makers of Reffitt's Patent Oontinuous Steaming machine.
Makers of Hydraulio and Sorew Presses on the most improved principles, with Telescopic and Elbow conneetions. Cotton Baleing Presses and Baleing Boxes, Patent Wroughtiron Steam Press Plates, and Patent Malleable-iron Glands for Press Cylinders, so that leathers ean be put in without taking the plates ous.
Makers of every desoription of Hydraulio Pumps, worked either by HAND or PowRr, with or without Steam Fingine attached. ?
Malsers of all kinds of Maohinery, on the most improved principles, for Dyeing, Drying and Finishing of all kinds of Textile Fabrios, such as Orleans, Cobourgs, Lastings,, Serges, Paramattas, Baratheas, Henriettas, Lamas, Cashmeres, Reps-de-Lain, Merinos and Manile Cloths, and all other kinds of Bradford Manufactured Goods, viz. : Crabbing, Singeing, Scouring, Washing, Drying, Starching, Tentering, Stretching, Calendering, Morpassing and Hot-pressing Machines.
Dyeing Maehines, for Blaoking, Blueing, Buffing, Saddening, Chroming, Padding, Jigging and Washing-off Machines.
Melange Maohinery for the Dyeing, Drying and Printing of wool "Sliver."
Stead and Gledhill's Patent Steaming Apparatus.
Stead and Appleyard's Patent Blaok Rolling and Steaming Apparatus.

Stead's Improved Felt-hardening Msohine, Wet and Dry Finishing and Tinting Machinery, for Mohairn, Lustres, Poplins, etc.
Wet Finishing Maohines, with from One to Seven Pairs of Nip Rollers, with Drying Machines attached.
Poplin Machines, for Paraffin Wax Stiffening.
Gas Singeing and Brushing Maohines.
Worsted Ooating Scouring Machine, to run Piece at full width.,
Tinting Machines, with from One to Three Sets of Nip Rollers.
Warp Dyeing Maohinery, Bleaching and ©izing Drime Machines, for Cotton and other Warps.
Patent Expanders, to keep pieces out at width
Hydro-Extraotors, both turned from underneath and above. Grinding Mills, for Indigo, Lac and Argols.
Soap-scouring Maohines, Milling Machines, Eot-air Tentering and Drying Maohines, for the "Estamene" Finish.
Also Makers of Steam Ingines for working the above Maohines, either separate or combined, of all desoriptions.
Messrs. Ingham and Butterfield's Patent Rigging Machines.
Oalenders made with Wood, Iron, Copper, Brass, Steel, Cottom and Paper Bowls.
Horizontal Eydro-extreotors with Copper Oylinder.
Damping Machines.
Dold Calendering Machines, with Five Rollers.
Improved Lancsshire Jiggers.
Mairers of the Newest Donstruction of Machines, fol the Dyeing, and Finishing, of Cotton Velvets, Velveti Plush, etc.; Treadles, Pegging Machines, Jiggers, Tubs, Cas ting maehines; Waxing, Painting and Brushing Machines; Lustreing, Tentering, Beating Nollies, One Cylinder Braela, and Damping Machines, Dyo Vats, etc.

MONTREAL WHOLESALE PRICER CURRENT, THURSDAY, SEPT. 18, 1902.

that the full turm of his life expectancy has expired. Porter vs. Home Friendly Coc., 41 S. E. Rep. (Ga.) 45. Vested Rights.-A benefit society, crganized to relieve sick members, and to provide for the families of those $w$ :ho might die, issued a certificate to the wife of a member on his agreement to comply with all the laws of the order then in force, or which migat thereafter be adopted. Held, that th? vested rights of the widow in the deathbenefit were not impaired, where the husband thereafter committed suicide, on the ground that, under a power in constitution, after the issue of the certificate the supreme council enacted a by-law reducing the death-benefit if a member died by suicide. Bottjer vs. Supreme Council, American Legion of Honor, 75 N... Supp. 805.

HOW ARTIFICIAL DIAMONDS ARE

## MADE.

The commercial manufacture of diamonds and rubies is likely to be accomplished in the near future. The diamond is only a particular form of carbon and carbon is the cheapest substance in the world. Millions of years ago nature produced the wonderful gems which have been the delight of mankind from their earliest youth. Now we are learning to repeat some of

MONTREAL WHOLRBALE PRICES CURRENT THURSDAY, SEPT. 18, 1002.



Sole representatives in the United States and Oanada, Messrs. Stoddard, Haserick, Riohards \& Co., 15\% Congress St., Boston, Mass。

MONTREAL WHOLESALE PRICES CURRENT THURSDAY, SEPT. 18, 1902.

| Name of Article. | Wholesale |
| :---: | :---: |
| Farm Products.- |  |
| Chates: | 8 c. ${ }^{\text {c }}$ c |
| Ont. New | $093 / 4010$ |
| Eastern. | 0910093 |
| Rgas : Now laid (shipped | 018 ¢ 19 |
| Straight candled .......... | $0151 / 2018$ |
| Stratght fall. | 000000 |
| No. 2. | 014015 |
| Maritime P | 000000 |
| Sustrinas :- |  |
| Potatoes, per bag of 90 lb | $\begin{array}{llll}0 & 60 & 0 & 75 \\ 0 & 10 & 0 & 11\end{array}$ |
| Honey, White Clov.,Comb | 007 01008 |
| Beeswaz....... | $\begin{array}{lllll}0 & 25 & 0 & 80\end{array}$ |
| BzAMs: pl | 140145 |
| do. Best hand | 000000 |
| Grocerles. |  |
| Sugars : Factory. |  |
| 1 kx Granulated, | 006860 |
| Acadis gran' | 000440 |
| ${ }_{41}{ }^{2}$ Ground. | 000463 |
| Powdered, in brl | $\begin{array}{llll}0 & 00 & 415\end{array}$ |
| Powaered, in bres | 000430 |
| Paris Lumps, in | $\begin{array}{llll}0 & 00 & 4 & 40 \\ 0 & 00 \\ 4 & 40\end{array}$ |
| ${ }^{6}$, half br | $\begin{array}{llll}0 & 00 & 4 & 40 \\ 0 & 00 & 4 \\ 1\end{array}$ |
| " ${ }^{3} \quad 100-1 \mathrm{~b}$ b | 0 00 <br> 0 4 <br> 0 40 |
|  | $\begin{array}{llll}1 & 0 & 4 & 40\end{array}$ |
| Mranten F ellown... | 0 23 |
| Molascen (Barbsion) do bris. \& $1 / \mathrm{s}$. | $\begin{array}{llll}0 & 264 & 0 & 80 \downarrow \\ 0\end{array}$ |
| Ivaporated Apple | 0091011 |
| Raisins: |  |
| Sultanas... | $008+010$ |
| Loose Musc, M8 | $\begin{array}{llll}0 & 00 \\ 0 & 150\end{array}$ |
| Oon. Cluster. | 000200 |
| Rixtra Dessert | $\begin{array}{llll}0 & 10 & 2 & 75 \\ 0 & 00 & 3 & 25\end{array}$ |
| Royal Bucking'm | 005006 |
| Valencla, ...... | 0060064 |
| is Selected Layers $\qquad$ | $\begin{array}{lllll}0 & 061 & 0 & 07 \\ 0 & 05 & 05\end{array}$ |
| Furrants, Provinciale . | $\begin{array}{llll}0 & 05 & 0 & 05 \% \\ 0 & 00 & 0 & 06\end{array}$ |
| Pliatras . . . | (1) $\begin{array}{lllll}0 & 00 & 0 & 00 \\ 0 & 00 & 0 & 00\end{array}$ |
| Patras.... ......... | $\begin{array}{ll}0 & 00 \\ 0 & 07\end{array}$ |
| Postizzas, | 00700097 |
| Prueョ, Cal........... | $\begin{array}{llll}0 & 04 & 0 & 05 \\ 0 & 08 \pm \\ 0 & 0 & 00\end{array}$ |
| Figs in bags......... | $\begin{array}{llllll}0 & 08 \\ 0 & 08 & 18\end{array}$ |
| "t new layers.... | $2821 / 3292$ |
| Sice, | ${ }_{2} 988808$ |
| « Patna..... . ${ }^{\text {\% }} 100$ | 425475 $400 \times 10$ |
| " Burmah....... 6 | 400 460 5000 |
| " Cryetal Japan if | 0003071 |
| Pot Barley bag ys ibs | C 00800 |
| Pearl " per lb |  |
| Taploca, Pearl | $0023 / 4000$ |
| Oom, 21 mbin | 080 0 090 |
| 80ab, a-1b ti | 880 |
| Tomon, 4 doz. case | 090095 |
| Tomatoen, 3s. per | 80085 |

the processes by which the wonders were created.
The most potent factor in these acts of creation was heat, and until recently the inability to produce more than a certain temperature with the means at our command, was the supreme obstacle to the realization of the chemist's hopes. Now, by the use of electricity, it has become possible to produce temperature hitherto undreamed of. Three thousand degrees Fahrenheit is the maximum heat attainable in the most improved of modern blast-furnaces. In porcelain kilns, after many hours of stoking, a temperature of 3,300 degrees has been obtained. Further than this steam cannot go. With the electric furnace double that temperature is now produced, and experiments are being made every day under conditions that no one could have foreseen even a few years ago. The "harnessing" of Niagara and the appropriation of its powers to our uses, is a feat which has brought these other possibilities almost within our reach. Ten years ago Niagara Falls, was an insignificant little village, to-day it is a city of great importance. The Niagara Falls Porer Company not only supplies a!l the energy required for every sort of lightirg and traction purpose to a distric. that extends from st. Catharine. Canada, in the west, to Lockport, N.Y., in the East, and Buffalo in the south, but it is further responsible for 8,000 horse-power of haudraulic power and 30,000 horse-power of electric current employed in manufactures on the spot. In fact, the city has become the seat of the largest and most important electrolytic and electrochemical manufactures in the world.

The cheapness of the electrical energy produced under these conditions naturally attracted to the spot industries

MONTREAL WHOL GSALE PRICES CURRENT. THURSDAY, SEPT 18, 1902.


# IDDON BIROTHHERRS, 

## INDIA RUBBER ENGINEERS.

 Brookfield Ircn Works,


## ENGINEERS and RUBBER MACHINISTS,

Plans for erection and completion of New Rubber Works throughont, on the most modern principle.

Specialities:-All kinds of Rubbor Machinery.



Special Note :-Buyers of Rubber Machinery have $331 / 3$ p.c., in their favor by purchasing from the Makers and Inventors in England, under the new Canadian Preferential Tariff.

MONTREAL WHOLESALE PRICES CURREAT THURSDAY, SEPT. $18,1902$.

which could not obtain the same facilities elsewhere. But it did more, for it led to the creation of industries, which, with the vast new powers furnished by the electrical furnace at their command, set themselves to make products which had hitherto been regarded as nature's monopoly. The stoutest metals, the best firebrick, every element that was supposed to be fireproof was found to melt and vaporize in the intense heat of the electrical furnace.
One of the most important industries carried on at Niagara Falls is the manufacture of carborundums-a crystal gem, red and sparkling like a ruby, and nearly as hard as a diamond. In fact, it is a kind of ruby. The inventor was Mr. E. G. Acheson, a pupil of Edison, and one of the pioneers who introduced the incandescent lamp into Europe. Mr. Acheson, like many another chemist, was bent on makng diamonds. He had begun his experiments as learly as 1880 , but had come to a stop, not for lack of inventive genius, but because the instruments at his disposal did not keep pace with his ideas. He began work again with the help of an improved dynamo, which furnished him with an electrical current capable oi producng a temperature of 6,500 degrees Fahrenheit. Carbon fused with clay at that temperature and then allowed to cool would, he hoped, produce diamond. It produced instead a beautiful red crystal, hard enough to seratch glass, and even the diamond itself. Mr. Acheson at first believed his crystal to be a combination of car-

MONTREAL WHOLESALE PRICESCURRENT. TGURSDAY, SEPT. 18, 1902.


Telegraphic Address:-Musgrave, Bolton, England.

# JOHN MUSGRAVE \& SONS, 

LIMITED,
Globe Iron Works,
BOLTON, England.

Makers of all classes of

## BOILERS,

Up to 300 lbs . pressure per square inch.

## Musgrave's Patent SUPERHEATERS.

> Cotton Mills, Rolling Mills and Electric Light Stations, Winding Engines, Mill Gearing and Cranes

Over...

## 70,000

I. H. P. Supplied for Electrical Purposes alone.

MONTREAL WHOLESALE PRICES CURRENT. THURSDAY, SEPT. 18, 1002.

| Name of Articie. | W |
| :---: | :---: |
| Wire Nalls. |  |
| Base Price carload................................. $\left.\right\|_{25} ^{2} 50$ |  |
|  |  |
|  | 1 |
| - | 0 |
| 4d and 5d ${ }^{\text {cos }}$ | 08 |
| 8d and 7d 9 | 0 |
| 10d and 12d " |  |
| 16d and 20d " | Base |
| 30d to 60d |  |
| Bullding Paper. |  |
|  | $\begin{aligned} & 035 \\ & 0 \\ & 045 \end{aligned}$ |
| rred |  |
| HIdes. |  |
| nitreal Green Hides No. ............ $\left.\right\|_{0} ^{0}$ |  |
|  |  |
| " No.3......................̈̀ |  |
| nners pay \$1 extra | 0 |
| cared \& inspect a sheer.............. |  |
| ns each |  |
|  |  |
| Horsehides...... |  |
| Leather |  |
|  |  |
| No. 2 BB . A. Sole. |  |
|  |  |
|  |  |
| light meanum No. 2......... |  |
| Harness............................... $\left.\right\|_{\text {Uner }} \mid$ |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Canada Kip .............. ................ 0 00 0 \% |  |
| Hemlock | 050 |
|  |  |
|  |  |
|  |  |
| Leather Board, Canads... ............... $0_{0} 16018$ |  |
|  |  |
| Pebble Grain............. ............... 012 |  |
|  |  |
| Glove Grain................ ............. 0 0 $150{ }^{15} 0$ |  |
| Brash (Cow) Kid............. |  |
| Rusgetts, Hghi............... |  |
|  |  |
|  |  |
|  |  |
| Imt. Freneh Calf. |  |
| English Oak 1 lb |  |
|  |  |
|  |  |
|  |  |
|  |  |

bon and aluminium, gave it the name of "carborundum." By means of chemical analysis, however, he found it to be a combination of carbon and sili ca, or sand, a new substance, that is, which, so far as we know, does not exist in nature. The substance promised to be of the greatest use for abrasize purposes. Accordingly, he established his works on the land of the Niagara Falls Company, and manufactured his products at a cost that enables him to compete successfully with the mined abrasive metals.
The ingredients of which carborundum is composed are the cheapest and simplest possible-pure white sand, coke, sawdust and salt. These ingre dients are mixed in the requisite proportions, and then piled into the furnace until this is half full. Next comes the core of coke, twenty-one inches in diameter, and then more of the carborundum mixture. When the furnace is full, the ellectric current is turned on, and a pressure of 1,000 horse-power of energy is applied and transformed into heat by its impact with the solid mass of coke. This process goes on for 36 hours at a stretch, during which 7,000 pounds of the crystal is formed. Then the furnace is allowed to cool, and as soon as possible the bricks are pulled down-for the intense heat generally melts the bricks together, so that the furnace has to be built up afresh for each operation. At the centre is found the solid core of carborundum, which is broken open and reveals the crystals, pure gems, absolutely indissoluble, and nearly as hard as diamonds. The erystal is then pulverized, and used in the manufacture of grinding and polishing materials, such as wheels, hones, cloth, paper, grains and powders.
Moissan, the French chemist, has been successful in producing the real gems, though the process of producing them in quantities has still to be discovered. Moissan's diamonds are tiny,

MONTREAL WHOLESALE PRICE CURRENT THURSDAY, SEPT. 18, 1902.

|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# PURE 



ARD.

Manufactured in England and packed in 28 lb . Galvanized IRON PAILS, and numerous other packages to suit all tastes. Choicest quality and full weight.

## LARD OIL.

For delicate machinery is the finest known.
BAR MOTTLED SOAP.
IRVEN BROTHERS, LIVERPOOL, ENG:
Under New Canadian Tariff Law.
but there is no doubt at all that they are the genuine article. As to the elements required to make a diamond, Mr. Acheson tells us that these are two; heat and pressure. Electricty has provided the former; the problem that remains is the discovery of the latter.

EFFECT OF LIGHT ON COLOR.
In a lecture on "Methods of Illumination," delivered before the American Institute of Electrical Engineers, Dr. Louis Bell states that it is not necessary that artificial illuminants should conform to a particular solor standard save where color is a matter of prime importance. It is, however, true that the general applicability of a light is very strongly influenced by its hue. and that, broadly, strongly colored lights would fail conspicuously in vis ual usefulness. Quite aside from the matter of color perception, it is the

## R. J. Ward \& Sons,



Military Musioal Instrument Manufacturers.
Wholesale Importers and Exporters of General Musical Merchandise, ro St. Anne Street, LIVERPOOL, Eng.


Milkgtone Emery RollerWorks. Rochdale, Encland.
Improved ROLLER GRINDING FRAMES of all descriptions.
ROLLERS RE-COVERED with COMPOSITION and EMERY Manufactured on an Improved Principle by our, own Patent Machinery.
The Emery is very angular and requires only a light touch on the Card and is guaranteed true, beling espeolally adapted for tempered Steel Cards,
EMERY FILETIMG.
WOOD and IMPROVEL FLEXIBLE "CLOTH STRICKLES made to Order, any size or shape.


Steel Moulders' Composition for Castings of every description. Ground Ganister for Cupolas, Bessemers, Crucible Steel Melting Holes, ete.
Patent Non-Conducting Cement for Steam Pipes and Boilers superior to Felt and Compositions eventing the radiation of Heat, Saving Fuel, etc. Special Torms to Canadians under the New Preferential Tariff,


Manufactured by The
Richmond Gavendish $\mathrm{Co}_{14}$ Ltd Liverpool, England.
Special prioes to Canadians under the new Tariff. Ezin
crange, yellow and green that make up the working luminosity of the spectrum formed by sunlight to the extent of about 80 per cent., and even were a brilliant deep blue or red light produced it would require far greater en ergy for the same luminous effect than a yellow or greenish light.
The eye unquestionably does its best work by light approximately like that through which it has been evolved. But sunlight is a very variable quantity. Outside the atmosphere the sun would appear conspicuously blue, but we live and move and have our being inside the atmosphere, and the color of the illumination outside is only of academical interest.
On the meridian the sun gives light that is to all intents and purposes white, but as it declines the atmosphere steadily filters out the blue and violet until by the middle of the afternoon the entire blue end of the spectrum
is down to about half its previous intensity, while the general luminosity has fallen only about 20 per cent. The general color tone is then distinctly yellowish white, and still later in the day-when the sun is only a few degrees from the horizon-the blue contingent is practically wiped out and the light shades off from orange-yellow to orange-red. Brilliant diffused light, being mixed with considerable skylight, which is noticeably blue, for the very reason that the setting is not, is perceptibly richer in blue rays than average sunlight.
For our purpose the conspicuous fact about natural light is that it seldom or never verges on the blue or violet, and never is tinged with blue-green or yellowish green. Its average tint is slightly yellowish-white, with a tinge of orange late in the day.
A color-match made at high noon will not hold when the sun is on the

# T. H. Hagen, Son \& Co., 

# Balata 

65, 67, 69 St. Mary Axe, LONDON, E.C., Eng.

Only manufacturers of the Original Genuine Helvetia Leather, for Laces, Belting, \&c.


Telegraphic address :-
"Brictile, Preston."
A. B. C. Code, 4th Edition.

John Whitherad\& Con Limited.

## Albert Works,

PRESTON, ENGLAND,

## Brickmaking Plant

"The Manchester."
Machinery and appliances for the manufacture of Bricks, Tiles and Pipes, under the new Canadian Preferential Tariff.
horizon; but memory of exact color value is not much to be trusted, and the knowledge that the tints did match at noon usually convinces the observer at sunset that "the light is poor," any variation being attributed to lack of light rather than to its real causechange of hue.
A's regards artificial light, generally supposed to fail conspicuously in giving what we are pleased to call "natural" color effects, every one of them, except the enclosed arc, which is strongly bluish, and the Welsbach, which is greenish, can be matched by normal sunlight at some time of the day. Even a Hefner lamp is not redder than a low sun on a hazy day.
So far then, as color is concerned, one can plan for artificial illumination with reasonable freedom of choice. It is by no means clear even that it is always desirable to employ white light for color matching, unless one can guarantee that the match will be viewed only by white light. An enclosed are worked with rather small current and untinted globes will distort average or normal color values quite as much


## The Cherry Tree Machine Co., <br> LIMITED



## Laundry • Machinery,

Our Shirt and Collar Ironing Machines are made for hand and steam power. They have cutgear wheels, planed ironing table, all parts machine-faced. Guaranteed to turn out work equal to any machine in the trade. Price from £18. Send for Illustrated Catalegue.

## The International Electrical Engineering Company,

Clun House, Surrey Street, Strand, LONDON, W.C., Eng.

# Manufacturers of <br> Electric Lighting Traction and Power Transmission Plant. 

Continuous Current Dynamos and Motors, Single and Multiphase Alternators and Motors, Transformers, Motor-Generators, Balancers, Boosters, Motor Controllers and Switchboards, Electric Cranes, Overhead Travellers, Hoists, Electric Mining Machinery, Haulers, Pumps, Complete Equipments for Tramways and Railways, arc Lamps, Upen or Enclosed, High Quality Arc Lamp, Carbons, \&c., \&c. Send for Price Lists.

Speolal prices to Canadians under $\begin{aligned} & \text { the New Tarifl }\end{aligned}$
$\frac{\text { Cable Address: "BROMIDE, London." }}{\text { Worts TOOTING. }}$ Photoriaphic Apparatus \& Materials as was-light. Hence the import anee of enclosing shades, which correct color as well as diffuse light.

ALASKA'S COMMERCIAL VALUE.
A mililon dollars a month is the estimate made by the U. S. bureau of statisties of the present value of the market which "frozen Alaska" offers the producers and manufacturers of the United States. By reason of the appl cation of modern systems of travel and transportation, Alaska is now as accessible as Arizona. Three days of travel by modern ocean steamers from Seattle, among the islands and along the coast which form the southeastern extension of Alaska, lands the traveller at Skagway; 12 hours by rail over the mountains carres him to the headwaters of the Yukon, where comfortable and well-equipped river steamers carry him to the gold fields of central Alaska or down the Yukon river, which is navigable for more than 2,000 miles
88 \& 89 High Holborn, London, W.C., Ener indtal. Spectal prices to Canidisins under the New Preferential Tarif. W.e日 ?

Princess Street Works,
SHEFFIELD, Eng

## MANUFACTURERS OF  FOR ALL PURPOSES.

Special Miners Drill Steel Ground and Polished Steel for Shafting.

SPECIAL NOTE.-This Special Steel is manufacture for the Canadian Market, under the new preferential tariff, $331 / 3$ per cent. in favour of the English makers.
at this season of the year. From the mouth of the Yukon another comparatively short trip by steamer carries him to Cape Nome-the latest and greatest of the gold fields of Alaska. Gold, fish and furs are the principal industries of Alaska at the present time; and their value to the United States is $\$ 15,000,000$ annually.
The cost of Alaska, says the Scientific American, was $\$ 7,200,000$. The revenue which the government has derived from it since its purchase amounts to over $\$ 9,000,000$ and the value of the products is now twice as much every year as it cost. The total value of the products of Alaska brought to the United States since its purchase is (according to the best estimates that the bureal of statistics is able to make) about $\$ 150,000,000$, of which $\$ 50,-$ 000,000 is precious metals, $\$ 50,000,000$ products of the fisheries, chiefly salmon, and $\$ 50,000,000$ more furs, chiefly seal fur. Probably $\$ 50,000,000$ of American capital is invested in Alaskan industries and business enterprises, including trandportation systems. In the salmon fisheries alone, the companies engaged have a capitalization of $\$ 22,000,000$ and the value of their plants including vessels, is given at $\$ 12,000,-$ 000. In the mining industries there are large investments, the great quartz mill at Juneau being the greatest quartz stamp mill in the world, while several other quartz mills represent large investments. With the inflow of capital, thie development of transportasion systems, and the gold discoveries, bave come the building of towns and the development of cities with modern conveniences of life. Nome City, which is located but a comparatively short distance of the Arctic circle, has now a population of over 12,000 ; postal facilities have been so extended that the number of post offices is now about 60 , and mails are being regularly delivered north of the Arctic circle.

Agricultural opportunities in Alaska have, until within a recent period, been considered of but slight importance. As the country was explored, however, and its conditions of climate and scil studied, its natural products observed, and experiments made with various classes of agricutural productions, it became appanent that the agricultural possibilities of the country, and espe-

## OHIS. <br> The IMPERIAL OIL COMPANY, Ld.

-BEFINERE AND MANUFAOTURERS OF-
CANADIAN PETROLEUM PRODUCTS, Under New Patent Process
Refl ned Olls, Benzine, Napthas and Gasolenes, Lubricating Olls, Greases Paramne Wax Candles, Fuel Olls,m\&c.

Hefineries: SARNIA and PFPrROLIA, Ont.

## Branches:

MONTREAL, P.Q. ST. JOHN, N.B. HALIFAX, N.B. WINNIPEG. ¿Man: VANCOUVER, B.C.
-GELLING $\angle G E N T S$ FOR PROVINCK OF ONTARIO-
The QUEEN CITY OIL COMPANY, Limited, Head Oflloe: TORONTO, Ont.

Branohes: OTTAWA, HAMILTON, LONDON, KINGSTON, and other Btations if Provinge of Ontario.

## Sheep Shearing Machines

 ForPower and Hand Driving.
Brand are the most Reliable.


Newall Engineering Co.,
LIMITED.
36 Featherstone St.,

## R. WHITE \& SON, Widnes, England.

LOCOMOTIVES.
CRANES of all kinds.
STEAM \& WATER
PIPES \& FITTINGS


GALVANIZED SHEETS, BAR IRON.<br>AERIAL WIRE<br>ROPEWAYS.

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

Pumps.



James Walmsley $\overline{\underline{\varepsilon}}$ Sons,

## Acorington, Eng.

## Leather Curriers, StrappIng Manufacturers and Mill Furnishers.

SPEOIADITIES: SINGLE \& DOUBLE BELTING

Any Width or Strength, made on our own Improved Principle, whereby Stretching is almost impossible.
Roller Skins, Picking Bands, Green and Oak Tanned ; Leather Pickers, Laces, Baffelo Skips, Buffalo Pickers and all other kinds of Leather Goods ased in the Spinning and Manufactaring of Cotton, Woollen, Silk ov Jute.
cially of the south and southeast, tremely successful, about 3,000 now beWhere the climate is modified by the Japan current, were of considerable importance, in view of the practicability of furnishing at least a part of the food supply of the population which the varied resources of Alaska seem likely to sustain and make permanent. Grasses for the support of cattle are abundant, and the experiments with live-stock thus far justify the belief hat this feature of the food requirements of Alaska may be furnished by the development of stock farms in the southern sections. In the north vast areas are covered with a moss similar to that upon which the reindeer thrives in other parts of the Arctic regions; and in view of this fact, the introduction of reindeer from Siberia was begun ${ }^{a}$ few years since, and has proved ex-
tremely successful, about 3,000 now being distributed through northwest Alaska. The experiment has advanced sufficiently to justify the confident be lief that the reindeer will within a few years prove an important feature in furnishing both the transportation and food supply of northern and northwestern Alaska.
The gross area of Alaska is, according to the 1900 census, 590,904 square miles. The governor of Alaska in a recent report states that this is equal to the combined area of the 20 states of Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, Pennsylvania, Delaware, Maryland, Virginia, West Vivginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi and Tennessee.

VARNISH MAKING WITH CHINA WOOD OIL OR TUNG OIL.

The successful use of wood oil in connection with varnish making requires deep study and great care in manipulation. In spite of all the formulas given by those interested in its sale, thousands of gallons have had to be thrown away as useless by varnish makers, before they met with success.
One point in particular must not be lest sight of and that is wood oil must not be considered as a substitute for linseed oil in varnish making, but rather as an addition for the purpose of toughening and hardening the varnish. For instance, if a varnish is to be an eight gallon stock (8 gallons linseed oil to the 100 pounds of gum), it must not be given seven gallons of linseed

## GEORGE

## Gas Meter= manuFacturers.

## OLDHAM, ENGLAND.

Special quotations under the new Canadian Preferential Tariff.


## JOHN BARKER \& SONS, Limited, Park street iron works

Original Inventors, Patentees and Sole Makers of


The Best Machines in the World for Loading and Unloading Goods
Makers of all kinds of GAGE HOISTS and LIFTS to work by Hydraulic Electric, Gas and Steam Power. Many Thousands Supplied. Also of UV\&R HEAD TRAVELLING and other CRANES. Barker's Patent Self-Closing and Locking Doors for Hoist Well Openings. All kinds of Mill Gearing, Machine Made Wheels, Shafting, \&c.
( If Canadians purchase these Cranes in England, they have $33^{1 / 3}$ p.c. in their favour under the new

Barker's Patent Hoist.
$70 \mathrm{ft} .1 \mathrm{long}, 3^{0}$ ft. high. Winds one Bale per one Bale
Minute. OVER 2,000 AT WORK.
oil and one gallon of wood oil, but it should have the full 8 gallons of linseed oil and from one to two gallons wood vil in addition.
China wood oil must, says the Painters' Magazine, under no condition whatever, be heated to a higher temperature than 160 deg. C. ( 320 degrees F.), otherwise it will decompose and be useless.

Varnish makers use only from 5 to 10 per cent. of the entire quantity of oil employed to such varnishes as are ntade from copal gums or resin, while with sosin a greater percentage may be employed.

For instance, a rosin varnish is desired that may contain 12 gallons oil to the 100 pounds rosin. In this case melt the hardened rosin as usual (if hardened rosin be used), add 12 gal-
lons of bodied linseed oil, which contains the required drier; heat the mass to say 284 deg. F. and add 2 gallons China wood oil. Do not allow the temperature to rise over 300 deg . F. at any time; take from the fire and thin as usual with turps. or benzine. A prepared combination of wood oil and linseed oil can be made as follows:100 parts (by weight) China wood oil.
20 parts raw linseed oil,
1 part resinate of manganese,
$1 / 2$ part red lead,
2 parts siccativ.
are heated together and boiled for several hours at a temperature of not over 280 to 300 deg .F., and then thinned with 8 parts spirits of turpentine for summer use and double that quantity for winter. Benzine will not answer here, and the turpentine must be in-
troduced as warm as possible This combination oil should be u: in place of the raw wood oil, as fol-lows:-

For a mixing varnish:35 pounds hardened rosin, 35 pounds combination oil, 25 pounds turps.,
5 pounds pale liquid drier.
This mixing varnish can be mixed with rosin varnishes that are made in the ordinary way with bodied linseed oil. but the quantity used must not exceed 30 per cent. of the oil contained in the ordinary varnish to which it is added, or the resulting product is apt to alligator on drying and tend to cracking. It is impossible to teach any cue treatment of wood oil on paper; it must be studied out by practice. The least trifle of overheating will make

## Manufacturers of BIRD CAGES

of every description, SIEVES, SCREENS, \&c.


Aliaries, Paroot Cages, fireglards, Husery Fenders.

## Illustrated Catalogues

 Matled Free on Application.$198,200,202 a$,
ST. JOHN ST., (Works, Cyrus St.,)
LONDON, E. C., ENG.

## JAMES NORTH \& SONS,

## Chamois and Gloves ... AND ...

Athletic Goods Manufacturers,
Harvest Gloves. Driving and Dress Gloves, Housemaids' Gloves, Gardening Gloves, White Cow-Hide and Seal and Tan Mitts. Cricket, Tennis, Foot balls, Boxing Gloves.

## CASH BAGS,

DRESSERS AND MANUFAUTURERS.

Telegrams: "TANNERY, OLDHAM" All Communications must be addressed to Oldham. ESTABLISHED 1840

## MILLS BROTHERS LTD.

## Registered Office: Lowermoor Leather Works. OLDHAM. ENGLAND.

Tanners and Dressers of Welsh, English, Calf, Persian, and Goat Roller Skins. ${ }_{\text {manufacturers }}^{\text {of }}$ Oak Tanned and Helvetia Strapping.


Patentees and Sole Manufacturers of the Improved Driving Belts for Mule, Cone Drum, and Electric Driving. Runs perfectly straight and free Runs Stretch. Mills' "Challenge Brand" Camel Hair Belting. Lan cashire Belt Dressing. Roller and Clearer Coverers, for Home and Export. Helvetia, Rawhide, Horny, Brown, White and Supple Laces. Roller Varnish, Roller Leather Cot ${ }^{\text {a }}$ Isinglass, Gelatine, Glues. Roller Isinglass, Gelatearer, and Twiners' Paste, Roller, Clearer, and CondiCloth. Plush for Clearers. Cond tioning Cloth. Copper Wire Sewivg Supplied. Revolation Wooden Split


Tannery: Blackley.

Pulleys. Mill Furnishers, \&o., \&o.
Lowermoor Works: Oldham.

Retablished 1779.
Telegraphio Address: " ANNE COWBURN."

## ANNE COWBURN,



## Carriage Builder <br> : FND

Harness
Manufacturer.
MOTOR CARS A SPECIALITY.

##  <br> Electric Cars pass every 3 Minutes. 5 Minutes walk from Exchange or Victoria Stations. Covered Railway Carriage Truck for use of Patrons.

Pneumatic Tyres \& Improved Solid Rubber Tyres Fifted to Carriages at Reasonable Prices.
Canadians can buy these carriages, under the New Tariff, $331 / 3$ p.o., in their favour by purchasing in Manchester, from this firm.
it dry out opaquely or tend to saponification in varnish. Its sole function in varnish making is to make the product dry harder and tougher, and make it more imperious to moisture than is possible with inseed oil alone.

A trial with ordinary rosin is recommended as well as with treated rosin. Attention is called to the fact that China wood oil usually contains a small percentage of moisture that must be driven off by heat.

## ARTIFICIAL INDIGO.

The first artificial indigo was made by Prof. Adolf V. Bayer, of Munich, in 1879. The material used was an inorganic acid of which nitrogen and phenol are chief elements. The process was acquired by two important German factories, but after a few years of costly experiments they were forced to cease their efforts, the expense of the material alone being greater than the selling price of genuine indigo. Then followed twenty years of earnest labor and diligent research to discover practical means of producing artificial indigo. Over 200 patents were taken out. German dye factories spared no time, pains, or expense to solve the problem. The chemical constitution of

# Lytham Shipbuilding \& Engineering Co. LYTHAM ENGLAND. 



> Builders of Light Draft Twin-Screw Steel River Passenger Steamers as supplied for H. M. Indian Government.
> steam launches under construction for sale. steel steam baraes. Twin \& single screw Steam tua boats. Telegraphle Address: Sternwheol; Lytham.
indigo was fathomed, but the right material with which to make it was not fortheoming.
In many of the experiments toluol, a coal-tar product allied to benzole, was used. It was an interesting but useless effort, because the available toluol was sufficient to produce only $1,500,000$ kilograms ( $3,306,900$ pounds) of indigo, while the world's consumption of indigo was estimated at $5,000,000$ kilograms ( $11,023,000$ pounds).
Finally, Prof. Karl Heumann, of Zurich, made the important discovery that naphthalene could be used as the raw material for artificial indigo. Naphthalene is much employed in the production of colored stuffs and in various other industrial processes, and is declared to be obtainable from coal tar

## =BUTTERCUP

BRASS AND COPPER retain their intensely brilliant polish without tarnishing for a long time if cleaned with
BUTTERCUP METAL POLISH.

## Sold in 2d., 4d. and 6d. tins by

 Army and Navy Stores. J. Barker's, Harrod's. Junior Army and Navy. Shoolbred's. Whiteley's. And all Leading Stores, Grocers and Oilmen everywhere.
## CHSWWCK SuAP Co, Chiswick - London, W. Eng.

 METAL POLISH.
## Marion \& Co's "Folding Imperial" Cameras

No. 20 Folding Imperial.

Cat will be inserted as soon as recelved.

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


#### Abstract

It is covered leather, R.R. Lens, F8 with Iris diaphragms, time and instantaneous Shutter, reversible View Finder, Cloth Bellows, rising front, focussing scale and focussing screen, 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 osed, including telephoto work of low magnifications. We know of no such complete equipment at the price, enabling as it does the user to undertake any and every class of work including one double plate-holder, pneumatic release, and tripod bushes, complete in stiff cloth carrying case.


| Price complete as described above, 5 by 4 plate, £6 |
| :--- |
| 10 |
| Extra Plate-Holders, 5 by 4 , eaoh ..................... |

$\qquad$ $\begin{array}{rrr}£ 8 & 10 & 0 \\ 5 & 0\end{array}$

Illustrated Oatalogue, 300 pages, post free, 1/- Booklets Free. Manufacturers of Photo graphic Plates, Papers, Mounts, Apparatus and Materials of Unsurpassed Excellence.
MARION \& CO., Ltd., - 22,23 Soho Sq., LONDON, W., England.


GOLD MEDAL LYONS EXHIBITION, 1872. SILVER MEDAL BARCELONA EXHIBITION, 1888. TWO GOLD MEDALS TORONTO EXHIBITION, 1896 . GOLD MEDAL PARIS EXHIBITION, 1900.

## The Lancashire Felt Co., Ltd.,

## DENTON, near MANCHESTRR, ENG.

 nanatatures of WOOL AND FUR BODIES.Suitable for Ladies', Men's and Boys' Hats. Also Raw Materials supplied to Manufacturers of same under the New Canadian Preferential Tariff.

# B. \& S. MASSEY 

## OPENSHAW, Manchester, Eng.



## Patentees

 and Makers of
## STEAM - HAMMERS.

Power Hammers, Stamps for Dle Work, Saws for Hot and Cold Metals.

More than 3,000 sold. 100 to 200 usually under construction or in stock.

Catalogues in English, French, German and Russian.

## PRODUCTION OF SALT.

The production of salt in the United States during 1900 and 1901 was the largest for any two individual years yet recorded, says Dr. Jos. Struthers in "Min ral Resources of the United States, 1901." The total production in 1901 wes $20,566,661$ bbls. of 280 lbs . each, a decrease of 302,681 bbls., of 1.5 per cent. from the production of $20,859,342$ bbls. for 1900 . The value of the salt produced in 1901 was $\$ 6,617,44$, d decrease of $\$ 327,154$ from the value of $\$ 6,944,614$ in 1900 . The coresp mding figures for 1899 were $19,708,614$ bbls., valued at $\$ 6,867,467$.
Under the production of sait $\mathrm{D}:$ : Struthers includes salt in brine. whith is used in very large quantities for the manufacture of soda ash, sodium :aicirbonate, caustic soda and other sollir m salts. During 1901 the United © $\mathrm{a}^{\mathrm{T}, \mathrm{f}}$ manufactured 529,104 short toas of sodium salts of all varieties, and the quantity of salt chiefly in the form of brine, required to make this product was in excess of $1,000,000$ short tons, equivalent to more than $4,000,000$ bbls. The rate of progress in the salt industry since 1880 , when the production was $5,961,060 \mathrm{bbls}$. to 1901 , with its mroduction of $20,566,661 \mathrm{bls}$. is very great, the increase being about 400 por rent. $^{\circ}$ During the last 18 years. with the ex-

## Irwell Rubber Co., Limited. MANCHESTER, - ENGLAND.

Contractors to the British Admiralty and War Office and all the principal Railroads at .ome and in the Colonies.

Manufacturers of every description of MECHANICAL INDIA RUBBER AND ASBESTOS GOODS used by Manufacturers, Railroads, Steamships, Mines, Power Plants, \&c., \&c.

Solid and Insertion Sheets, Valves, Buffers, Washers for Steam and Water Joints, Rubber Belting, Hose of all kinds. Solid Rubber Tubings, Packings, of every description, Matting, Roller Covering, Fruit Jar Rings, \&c., \&c.
Give our "Brucoso" Belting a trial. Tensile strength or 6" x 4 Ply 12,000 lbs. The Latest, Strongest and Best Gripping Belt made.


BELLS,
INDICATORS, TELEPHONES, ARC LAMPS, (ERglish Mantatacture.)
INCANDESCENT LAMPS, "The London Standard."
(Very special prices quoted for contracts.)

CARBONS,
VOLT \& AMPERE METERS, MOTORS \& DYNAMOS.

## G. BRAULIK,

## 217 \& 218 Upper Thames St., LONDON, Eng.

115 Bath Street, GLASGOW, Scotland. And 39 Pitt Street, SYDNEY, N.S.W.

The Best and Oheapest House for all
ELECTRICAL SUPPLIES,


Switches, Switchboards, Cut-Outsand all Lighting Accessories, Wires and Cables

## STANDARDS, BRACKETS, ELECTROLIERS: :

Special terms to Canadian Houses under the New Tarifi Regulations.

Pocket 'Bees' Volt and Ammeters,
Ask for List No. 17 for Volt and Ammeters of every description.

The New "FLAME" Arc Lamps a Speciality.
ception of 1889 and 1901, the yearlv York, Ohio, Michigan, Kansas, Utah production has largely increased, and and California, which are among tiee yet, notwithstanding this rapıd in- most important salt producing states. crease, possibly because of it, the business of the production of salt has not been a lucrative one. This cond:ticn of the industry was due in a great many cases tô over production aad keen competition for trade. As à result, combinations have been effected among the majority of producers in New


## Lifting Tackle

FOR ALL PURPOSES.

Cranes, Sheave Blocks, Crabs, Pulley Blocks.

## The Steel Rope Pulley - Block Co., LIMITED,

 WASEFORD ROAD,Sheffield, Eng.

MAKING CASTOR OIL.
Castor oil is made principally in California, Italy, Mexico and India, but most extensively in California. There are two distinct processes of extracting the oil from the seed, i.e., expression and decoction. While the latter process is adopted in Italy and India, the California manufacturers and most of the Mexican manufacturers obtain the oil in the following manner:

After gathering the seeds in the fall of the year they are placed in drying furnaces for an hour or so or for a sufficient time to soften the seeds, as a greater percentage of the oil contained in a seed can be obtained when the seed is soft. After they have been removed from the dryer they are placed in the press, similar to a eider press, and the seeds are crushed. The oil runs into a large bowl directly beneath this press and is mixed with about an equal portion of water and boiled for one and one-half or two hours-thus precipitating the albumin and other impurities. When cool there will be a thin scum on top which is skimmed off, the water and oil are then separated, sometimes by running the water off and sometimes by "baling" out the oil, which is placed in the "sun tanks"(tanks of metal exposed to the sun) where it bleaches for eight or ten hours and is then removed to the storeroom, where it is placed in barrels, carboys, etc., ready for the market. Some of the trees in California reach a height of 50 feet and the seeds from one tree contain as much as 15 gallons of pure oil.
In more northern latitudes the castor oil plant rarely grows higher than three feet and is used for ornamental purposes, while in warmer countries it becomes a tree.

## LICENSES GRANTED TO MANUFACTURERS.

## THE COUN'TEIR = SKKID

 by a foot lever under the driver's control.
(Williams' Patent)

## Renders Side-Slip an Absolute

Impossibility
IT is an attachment to the back axle of the car, consisting of two hinged bracketh working on the positive and negative principle. At the bottom of eacy bracket there is a free running sancer-shaped steel disc. which engages. instantls, and automatically, with the road surface as soon as any tendency to side-slip occurs Trials conducted on greasy wood and asphalte pavements in London, have proved its perfect reliability beyond all question. It may be seen attached to a 12 H.P. Milnes Car at Messrs. Laurie and Marners of 311 Oxford St., W., and it may be tested or seen at work by arrangement with.
F. SADLER,,$\substack{13 \text { Dorlng Stroet, } \\ \text { oxford Stroit, }}$ LONDON, W. ENG. $331 / 3$ per cent. in favour of l anadians.

FENLON \& SON, Fenlon's Patent Boilerette Radiators.


Which will heat a room 20 ft sq with asiagle Special terms to Can-


## Store Fittings and Utensils.

Scales, Weights and Weighing Machines of every description. Coffee Mills, Coffee canisters, Coffee Roasters, Patent Tea Bins, Tea Mills, Tea Canisters, Patent Biscuit Stands, Glass Shelves, Mirrors. Every requisite for Grocers, Provision Merchants, Confectioners, Drapers and Tailors.

Illustrated Catalogue and Prices Free.

## F. E. \& G. MAUND, Lto., 386 Old Street, <br> SHOREDITCH, LONDON, Eng.

ELECTRICIANS and ENGINEERS.
Chas. Peacock \& Co., 35 Clerkenwell Road, - LONDON, E.C., ENGLAND. Dontracts undertaken in all parts of the Country. Inquiries solicited.
Liberal Commiesion to the trade.
Telephone: "No. 159 HOLBORN."

THE IMPROVED EXPERT

with which 300 mortises are made in one hour. No boring or core driving. One operation only in soft, hard or knotty wood.

The Improved Expert Chain Mortiser, 15 Barbican, LONDON, E.C., Eng.

Telegraphic Address : "EXPANSION, LONDON."
RICHARD MORELAND \& SON. LTD., 3 Old Street, LONDON, E.C., England.


Manufacturers of Solid Steel Columns and

Oonstriuctions for
Canadians, under the
New Preferential
Tariff.

Maclure Limited
(LATEMACLUREBROS., )

American Colonial and Continental Import and Export Merchants and Brokers, Are prepared to act as Agents for Canadian Manufacturers.
AGENCIES WANTED FOR CANADIAN PRODUCE.

Can buy all kinds of British and Continental Manufactures and Merchandise at lowest prices, and every care will be taken to secure best results to our correspondents. . . . . .

Much better bargains can often be procured by dealing through agents who know where and when to buy to advantage.

REG. OFFICE:
60 Victoria Street, LIVERPOOL, ENG.

LONDON OFFICE :
7 Mark Lane, LONDON, E. C., ENG.


## J. \& J. T. Mortimer,

 Iron Founders, Castings of Every Description for Engineers, F. O. B. at Manchester.Wicken Tree Foundry, Stater, FAILSWORTH, Manchester, Hng.,
If Special estimates to Canadians under the new Canadian Tariff. eray

## Brookes \& Co., Ltd.,



Cateaton Street, - MANCHESTER, ENG
Special prices under the New Tariff.

## Establlshed 1848

## Francis Barker \& Son,

## Sun-Dial and Mathematical Instrument Makers,

12 Clarkenvell Road, • London, E.G, Eng.
HORIZONTAL SUN-DIALS, fixed on Pedestals, form a Beautiful, Useful and Ornamental addition to Gardens, Terraces, Parks, \&c. 14-Inch Brass HORIZONTAI SUN-DIAI, with Equation Table complete on Terra-Cotta Pedestal, as Illustration $£ 10$ subject. An assortment of Pedestals and Dials kept in stock. SUN-DIALS can be supplied without pedestals, in Brass, Gun-Metal or Slate, from £2 each subject. Suitable Mottoes, \&c., can be Engraved, Special Designs can be submitted, or suggestions carried out. Full instructions sent for fixing Dials, or competent workmen sent to set them.

Illustrated Price List and Finll Particulars sent Post Free upon Application
AGENTE REQUIRED.
Wrigley's Automatic Convieying Co.
85 Royal Exchange, MANCHESTER, Eng.


ELEVATORS \& CONYEYORS. For Coal, Coke, Ashes, Grain, Malt and other Materlals.
Spectal pricesto Cansdians under the New Tarif

## THE TURRELL CAR.

## specification.



Motor. $7 \mathrm{~h} . \mathrm{p}$. vibrationless, two cylinder motor.
Gear.-Patented system having the wheels always in mesh.
32in. tangent-spoked wheels, with 2yin. Michelin tyres.
34in. artillery wheels, with 2 in . Connolly solid tyres.

Body.-Mall Phaeton, Tonneau, or Siamese Phaeton,
Brakes.-Powerful pedal brake on differential gear. Powerful lever brakes on driving wheels, compensated, and acting in both directions. Ratchet to hold the car on steep hills; this facilitates starting on big gradients,
Pump. - Special slow-speed positive pump.
Radiator. - Of ample size.
Ohaing.-By the Coventry Chain Co.
Fitted with either a bonnet or basket in front,
300 Guineas net.
1 Sizecial estimates to Canadians under the new Preferential Tariff.

Catalogues, giving drawings of detall parts, etc., etc., from


Representatives for the Pacific đoast, Asia and Australia,
The Pacific Hardware \& Steel Co., San Francisco,, Gal.

We make High Grade Family SEWING MACHINES

For the Merchant's Trade Write us for Prices and Terms.

We can Interest you.
FOLEY \& WILLIAMS M' ${ }^{\prime}$ G. CO.
Factory and General Office:
CHICAGO, Illinois.
European Office : A2 Southwark Bridge Road, London, Eng. Southern Office 121-123 W. 5th St., Cincinnati, Ohio. Rep resentatives for the Province of Quebec: H. \& J. YOUNG, 111-115 Bridge St., Quebec, P.Q.

Representatives for the West Indies, Mexico, Central and South America. The New York \& Java Trading Co., New York City, N.Y.

## The only HV Switch

Which is passed by every Central Station Engineer.

## Sole Makers :

> The International Electic Company, 55 Redcross Street, BABBICAN, London E.C., Eng.

Cat will be inserted as soon as received.)

## E. TAYLOR \& CO.



56 Hatton Wall, Hatton Garden, LONDON, E.C., Eng.

Prices and Particulars on Application.
Ifdents through Merchants

Bstablished 1887. Tolegraphio Address. "Wm, Heap, Ashtoa-Under-Lyne." WILLIAM HEAP \& CO., LTD.

## FIWIRR ANIES \& Engineers, Millwrights

Water Lane Works, Thornton Road,
BRADFORD, ENGLAND.


Balling Machine ......Makers of......
Hydraulic Pumps, Horizontal and Vertical Steam Engines, Improved Warp Steeping Motion, Dyeing, Sizing, Drying, and B 11 ing Machines. Indigo Vats, Crabs, Pads, Dolleys, and Hoists, Cran es, Shafting, Wrcught \& Cast-Iron Pulleys, Plummer Blocks, Couplings, Hingers, and Gearing Mortar Mills and Castings.

Repairs Promptiy
[桨 Spectal prices to Canadians under
Attended to the NewTariff.

Telegraphic Address " COCKBRASS," London.

## Thos, Noakes \& Sons

 Oldhaze goad Engineers Tool Works, ASHTON-UNDER-LYNE, ENGLAND. Engineers' and General Tool Makers.

Makers of Lathes, Drilling Machines, Makers Machines, Slotting Machines, Miiling Machines, Screwing Machines, Screwing Tackle, Clyburn Spanners,

 Machinery.


35 \& 87 Brick Lane, WHITECHAPEL, London, Eng. WORKS AND FOUNDRY.

12 \& 14 HENEAGE STREET, E.
ENQUIRIES SOLICITED.
LONDON, ENGLAND.
Trade m\&N mark.

New Canadian Preferential Tariff, $831 / 2 \mathrm{tn}$ favour of Einglish Goods.
Note.-In all communiostions please sddress with
 name in full.

## R. \& UU. Harathorn, Leslie ... AND Co., Ltd.

NEWGASTLE-ON-TYNE, ENGLAND.

## Manufacturers of

## LOCOMOTIVES OF EVERY DESCRIPTION


PHOTOGRAPHI and
SPHOIFICATIONS
ON APPLIOATION.
Standard Classes in Pro-
gress and in Stock
O O
Special prices to Canadians under
the New Tariff.


SPECIATITIXS. Combined Crane and Locomo- ENQUIRIES cordially invited whioh will jave fornmint and tive. Standard Tank Engines, 4 and 8 wheel coupled. careful attention.

## W. G. WISDOM,

98 \& 100 Rosoman St., Clerkenwell, LONDON, E.C., Eng.
Wholesale Silversmith, AND .. Fancy Cabinet Manufacturer.

SALTS, SCENTS and SPIRIT STANDS.

Patronized by Royalty.
JAMES BLIGH \& SON. LTD.
117, LONG ACRE,LONDON, W. O., England.
Numercis Gold Medals awarded for Exeellence of Design and High Finish. Miss Marie Corelli writes :-"The 'Thelma Car' 1 find most Charming and Comfortable."


LANDAUS, BROUGHAMS, VICTORIAS, PHFETONS with Improved Step. Pony and Governess Cars in all slzes on view. Repairs a Spectalty.
The "TEELMA" is undoubtedly the most unique Cart of the new Century A large and varied Stock of High-class New and Second-hand Carrlages always on View.

Telograms: "RUSSIANIZE, London." A.B.C. Code, 4th Edition nsed.

## A. BECKMANN \& CO , Wine \& Spirit Brokers,

 47 Mark Lane, - LONDON, E.C., Eng. Every attention glven to the Export Trade. SPECIALITIES:Cheap Cased Brandies, Olarets and Champagnes.

## GREENE'S BELT FASTENERS



Wm. H. Chase,
16 Little Trinity Lane. Upper Thames Street, E.C.. LOM DON, ENGLAND.
Avoid Imitations $\begin{gathered}\text { and insist } \\ \text { on having }\end{gathered}$
Greene's Genuine Belt Fasteners..
As Manufactured by W. H. Chase
for upwards of Thirty Years.
To be obtained from all leading dealers in the United Kingdom.
EVERYTHING
in the line
of . . .
JOB PRINTING

- executed promptly

JOURNAL OF COMMERCE
171 St. James St., Montreal.

GLAZIERS' DIAMONDS.
$\square$ (4) Bushachipper.

BUSH \& CHIPPER,

| SECURITIES. | London Sept 4 |  |
| :---: | :---: | :---: |
| Britieh Columbia, 1877 6 p.c. | 104 | 108 |
| $\begin{aligned} & 1837 \text {, 43 per cent ... } \\ & \text { 1891-9, 8 p.c............ } \end{aligned}$ |  | 94 |
| $C_{\text {anada, }} 4$ per cent. loan, 1860 ........... | 104 | 100 |
| 3 per cent. loan, 1888-99......... | 102 | 104 |
| Debe. 1884, 3\% per cent . ...... | 101 | 108 92 |
| Manitoba, 1885-6, 5 p.c...... | 108 | 110 |



## VIOLIN STRINGS.

- 

To VIOLINISTS. Please send me your address for post free catalogue of STRINGS, FITTINGS And Novelties.
Speeialities in E. Strings, unrivalled for durability and brilliance of tone.

## W. EASTBURN,

VIolln Maker and Repalrer, HALIFAX, Eng.

## TBOITETEAEIEIOIP.

THE STEVENSON BOILER, MACHINE SHOP AND FOUNDRY WORKS AT PETROLIA ONT (now of twonty yearg' etanding), continues to make Marine, Stationary and Portsble Bollers of all kinds. The Oansdian Oll Wells and Refiners and Mills in thls section are vearly intrely supplied with Bollers and other Plate Work from this shop; while for well-driling purposes it has sent many boilorw to Germany, Austria, India and Australis. It also makes Oil Stills,Tanks,Bleachera nd Agitators, Salt Pans, Steam Boxes for Stave and Hoop Mills, and any destred work in Plate or Sheet Steel or Iron, as well as all productions of Machine Shops, including Steam Engines and Castinga in Iren nd Brass.

Having a full outifit of machinexy and toole, Including Steam Riveter, and men of long experience, it invites comparison of the quality of its work, with any ehop in Canada.

## ARTHUR KAVANAGH;

J. H. FAIRBANK; Pronrletor

## Thomas E Whitworth,

 hatters' machinist. DENTON, near MANCHESTER Eng.

Accuracy Guaranteed.
Estimates for all Kinds of Hatting Machinery

SHIPPING ORDERS and ENQUIRIES Promptly Attended to.


## CTT Lubricating Burning


W.H.PALMER \& CO.

Contractors to H. M. Government. Manufacturers of

##  DFCORATIONS,

 VARNISHESS FOR all pupposss. Colors, Oils, Paints، Enamells, Polishes, Dyes, Stains, Chemicals, Bronze, Powders, Gold, Silver and Metal Leaf.78 Old Street,
ESTABLISHED 1805. LONDON, E. C., ENG.

The LEANDER CYCLE


Leander Machine Company, Ardwick Green, Manchester, Eng.
 Fetablished over 100 years.
MANUFACTURERS AND'M RCHANTS EF SHEFFIELD GEEDS.
STEELL.-Best Crucible Cast Steel for Turning and Slotting Tools, Setes, Punches, Dies, and Chisels; also for Maeons' Hammers, Chisels, Ficke, Qusrry and Miners' Drills, \&c ; Busseneer and Slemens-Martin Steel is Bars. Sheets and 8trips.

FILES AND RASPS of every description or made to any pattern CAMMRRS for Engineers. Emiths, Masons, MiLers and Quarry Werk. CHISRLS for Engine ${ }^{\circ}$ rs, Masons, and other purpcses.
Shomers Nippors, Rasps, and all deecriptions of CUTLERI.-Canpera, Table and Dessert Knlves, Pen and Pocket Knlves Razorn, Sciasors, Spoons and Forks.

## Fletcher • Brothers,

## ASHTON-UNDER-LYNE, NEW STEAM <br> "DIVERGENT"

STOP VALVES
With Patent Removeable Expansive Seatings, Simple Bye-pass Arrangement.


## Safety Valves

wich separate outlet for Low Water Steam distinct from High Steam.

Specialrates to Canadians under the New Preter ential Tariff.


A GREAT BOON to Publlcans and the Public generally.
"BARDSLEY'S" Patent NON-DRIP STONE CILINDER BEER PUMPS.

Prevent Beer Polsoning, Waste and Nauseous Taste In Morning. Will Repay Cost In 12 months.
Oan be fitted to any Machine. Write for Particulars. BARDSLEY \& CO, ${ }^{\text {so monos rzzagit }}$ OLDHAM, ENG.

400's Needles Double-Lift SINGLE CYLINDER JJGQUARD MACHINE


For weaving Cotton, Linen, Woollen, Silk and other classes of goods, when a high speed is desired. Manufactured by
JOHN CROSSLEY, INVENTUR OF THE Double-Lift Jacquard,


## ELECTRICAL PLANTS FOR <br> LIGHTTING and MOTOR DRIVING.


 - TURNER, ATHERTON \& CO., Ltoln, Electrical Engineers, \&c.,


## JOHN HEALD,

Engineer, Millwright, Iron and Brass Founder, \&c.,

## CHORLEY, - LAMCASHIRE, ENCLAMD.


#### Abstract

Sole Maker of JOHN HEALD'S Patented Doughing and Grinding Machine for Waterproofing, Maker of Mixing, Washing and other India Rubber Works Machinery. Vulcanizing Presses, Pans, Moulds, Etc.


## Fox \& Williams's

 Mineral Faisible Cement,

It is invaluable when used to secure shaken Walls or Engine Beds, to run Wall Boxes or Iron Fixings fast in Brick or Stonework, and Bedding on foundations. It makes

For Prices and Particulars Apply to
FOX \& WILLIAMS.

Telegraman " wricls," 8TOOKPORTp

## JHMES E. MILムS,

Heapriding Hat Works,
STOCKPORT, ENGLAND.
And at 27 Milton Street;

- LONDON, F.C., ENG.

Wholesale Manufacturer of
Soft, Stiff and Flexible Fan Felt Hats.
8ppolalitiea in EXTXA LICHM HAMㅗ for the Colonial Markets. Speotal attontion pald to Paoklag of Coods for Mrposth +n9ecer
2980 Made for the Canadian trade under the New Preferential Tariff.

Journal of Commerce Job Department for Printing.

## Hartley, Baxter \& Co. Limitred.

Electro-Plate and Cutilery Manufacturers.


C 118-Xylonite, Silver Ferrule, 23s, 6d.; Ivory, Silver Ferrule, 368. 6d. doz


C 119-Pearl, 36s. doz.
Tenter Street, . . SHEPPIELD, England
Catalogue on Application.

## Richard Robinson,

 bRass and IRON FOUNDER,Manufactarer of all kinds of
Extra Strong Gun Metal

## 

 ENGINEERS' AND MILL WRIGHTB' BRASS WORK.
## WILLIAM ROBINSON'S Patent Improved

## Syphon Box or Steam Trap



Over 50,000 have been sold.
Manor Street Works, GUIDE BRIDGE,
Nr. MANCHESTER, England.
SAYNOR, COOKE \&RIDAL, Manufacturers of every description of
Pen, Pocket \& Sportsmans Knives, Pruning \& Budding Knives, Vine, Pruning \& Fancy Scissors, Garden Shears, and all kinds of Horticultural Tools.

Paxton Works, SHEFFIELD, ENG.

Leading Hotels in Canada．


ROSGIN HOUSIE，TOBONTO，Onnads．
A．Neluon，Proprieter．
＊The proprietor has found necosmary owing to the increased patronsge of thle popular Hotel to Incresse its capacity by an adalition of $75 \times 00 \mathrm{mp}$ ， olegantly furnished en suite with bathe，now ready for occupation．The lateint exposed eanitary plumb． Ing has been adopted throughont．THIS ROSBIN 1． admittedly the largent，best appointed and mos： iberally managed hotel tis the Ryavince．haztiy accommodation for 500 guents．

A．TinLSOKI，Propriator．

## THE RUSSELL，

OFEA 睤息。

THE PALAOE HOTYL OF OARADA

This magnificent now Hotel，atece ap ta the moet modern style，is now re－opened．Thn Ruwsill con taing accommodatlon for over Four Hundred Guests，with passenger and baggsge elevator and commands a aplendid．flew of the City，Paziza mentary grounde，river and cansl．Vietrors to the mentary grounde，river with the Government find it most convenient to etop at the Russell，where they can always meet the leading pubilic men．The en－ tire Hotel is supplied with secapes；and in cesse of fre there would not be any contuston or danger． Tivery attention paid to Greste，

> F, X. ©T. JA.OQUEE, Propr.
policholders and agents alike Profit by a bood Selection．

The unexcelled financial position of the Company，its large surplas；its handsome dividends；its likeral policies；and its promptness in paying all legitimate claims make THE NORTH AMERICAN LIFE a most desirable Company for both．
Active men who will become active agents will find it to their interest to re－ present

## THE NORTH AMERIGAN LIFE

112－118 King St．，W．，Toronto．
L．GOLDMAN，Wm，MCCABE， Secretary． $\qquad$ Managing Director．
ssrs．AULT \＆McCONKEY，
Managers for Province of Quebec． Royal Insurance Building，Place d Armea Sq．， MONTREAL．

## Saxe \＆Archibald， ARCHITECTS

Room 79，Imperial Building
MONTREAL．

## 

Manufacturers of every description of TOOLS，CARPENTERS＇，GENTLEMEN S OAK TOOL CHESTE，TOOL CABINETS，JOINERS MALLETS，ETC．


CITY OAK WORKS，
BROWN ST． And SHOREHAM ST．，

SHEFFIELD，
ENGLAND．

THIS LITTLE TRADE MARK


## ON A SAW GUMMER

Is a guarantee that it is the best Tool on the market for Gumming Saws and Light Punehing．

A．B．JARDINE \＆CO．， HESPELER，ONT．

THE MIDLAND MFG．CO．，LD．．．



SPECIAL NOTE．－Buyers have $831 / 3$ per cent in their favour by purchasing from The Makers and Inventore in England under he new Canadian Preferential Tariff．

# 毋NT T Telegraphic Address: "RELIANCE, SHEFFIELD." <br> LIMITED. 

Corporate Trade Mark.



RELIANCE STEEL WORKS,

## Sheffield, England,

 Manafacturers of all kinds of Crucible
## CAST STEEL

 Expressly Adapted for Mining and Quarry Work; also of Rapid Cutting Steel for Turning
## TOOL STEEL

For Turning Chilled Rolls, or any Hard Metals.
Cast Steel Sheets, Blister, Single and Double Shear Steel, Coach and Railway Spring Steel, Sewing Machine Steels, \&c., \&c. Best Warranted Cast Steel FIL ES. Solid Steel Hammers and Superior Cast-Steel Saws of every description. Special terms to Canadians under the New Tariff.

## Known for Years at Home as THE BEST.

 NOW THEIR HIGH QUAALTTY Is Getring knownALL OVER TEE EMPIRE,

## HANS RENOLD MANCHESTER CYCLE CHAINS

Roller Chains. Block Chains. Twin-Roller Chains.
CYCLE MAKERS andAGENTS in Canada, can obtain them through their customary Importing Houses.
SOUNDEST CHAINS ON THE MARKET. MANCHESTER, Eng.

A Reliable and Practically Unbreakable Bicycle Frame.
 Worsley St., HULME, Manchester, Eng.

Are Prepared to arrange with a Factor for the introduction and sale of their
UNBREAKABLE B. H.J. BICYCLE FRAME.


For description see "Canadian Journal of Commerce," March 28th, 1902. Full particulars and prices on application.

Contractors are invited to apply Pure Air Radiator for particulars of the
For Diffusing Heat. Portable. No
Coal Fires, No Deleterious Fumes from Gas Stove Oxygen by No Ashes. No Dast. For Hospitals, Gas Stoves. No Dirt. Nublic Buildings, Private Mansions, No Infirmaries, Sanitariums, Public Buildings, Private Mansions, \&c.


James Melling, - Dashwood House, New Broad Street, London, E.O., England,

## For • Motor • Cycles



Down Hill, Inything on wheels will run, BUT Up Hill ...


ARE ESSENTIAL.

WORKS AND OFFICES:

## 12 Woodville Rd., ildmay Park, LONDON, N. Enc.

Specially made for Canadians under the New Preferential Tariff.

Crown Works, Walker St., ROCHDALE, Ens


The Heads of these Bobbins contain a Square Hole in the centre, and are fitted on a Square Projection attached to the end of the Barrel, as shown above ; thus the heads cannot turn round or get loose. This is the only means of avoiding the frequent and costly repairs, and the abundance of Loose Bobbin Ends so verted to this principle.

Garnock, Bibby \& Co.,

## Limited.

Steel Wire and Hemp Rope Manufacturers, LIVERPOOL, - ENGLAND, Contractors to the Admiralty and War Office.

Special Prices to Canadians under the New Preferential Tariff, 33 1-3 per cent. in favor of Canadian buyers.

A

## $\square$ 园

.... Manufacturers of...


To stand Tests of Admiralty, Board of Trade, Lloyds, India Office, and India State Railways, \&c., \&c,

## IRON RIVETS of every description.

ALSO MAKERS OF

## HWAVY AND LIGHT CASTINGS

Brass, Cun Metal, in Phosphor-Bronze, Aluminum, Anti-Friction Metals, \&c.

ALSO OF ALL KINDS OF
STEAM and HYDRAULIC COCKS,
 WHEEL VALVES,
Sight-Feed Lubricators, Water-Cauge Fittings,門arine Lubricators, Fusible Plugs, \&c VULCAN RIVET \& BRASS WORES.


Tinsley Park Road, - SHEFFIELD, Eng.
T. J. HAYES,

Maker of every description
of
Wire
Mattresses.
5\% Years with Roweliffe's, Levenshalme.
35 Hood Street, Jersey Street, - ANOATS, MANCHESTER. ENGLAND.
(Cut will be inserted as soon as mado.)

Special Attention pald to Export Ordors.

Brass Founders, Coppersmiths, Brass Finishers.

# Hartcliffe, $L_{e e} \& \mathrm{M}_{\text {alkin, }} L_{t d .,}$ 

CHAIN MAKERS. For Driving, Conveying, Elevating, \&c.

St. Simon St., SALFORD;
St. Simon St., SALFORD;

Rigby, Mainwright \& Co.. Manufacturers, Railway ...An Government Contractors
Engine Waste, Sponge Cloths, Lamp Wicks, Twines, Ball Cottons, Engine Packing, Box Cords, Roping and Seaming Twines, Mops, Dusters, House Frannel, Neptune Scourer, Buntings, \&c.

## NEPTUNE WORKS

Union Street, Fairfield St. - MANCHESTER, Eng.

## A Revolution In Refrigeration ...



No. 4 Cooler as used for Chocolate ${ }_{\mathrm{w}}^{\mathrm{E}}$ Cooling.

THE EXPRESS ROTARY COOLER. (McRae \& Broadbent's Patents) Can be used in conjunction with existing plant. Results fully guaranteed. The Ideal Apparatus for Cooling and Preserving Articles of any kind. The highest standard of efficiency and economy.

THE EXPRESS ROTARY COOLER SYNDICATE, LTD.
7 Fenchurch Ave., - London, E.C., Eng. Forest Road, Dalston.

##  TRY KNIGHTS PATENT. <br> THE BEST MACHINE TO USE OR SELL.



SPLENDID VALUE. QUICK SELLING LINE.

## Detinnatime

Stands Heat, Cold, Steam, Damp, Oils, Grease, Acid and Rough Wear better than Leather, Gutta-Percha, or India-rubber. specialities:
Belting, Ram Rings, Pump, Cups, Valve Steam Joints, Hose and Packing. ONLY ONE QUALITY-THE BEST.
The Dermatine Company, Limited,

## Insurance. <br> The ridaral lifo assurance CONBANY.

EEAD ONEICE, BANILTON, OANADA.

Capital and Assets
-2 219,92558
Surilus to Pollcyholders 1.129075 .64

Pald Polloyholders in 19 L MOBT DHELBABLII POLICY CONTY\&OTF

DAVID DEXTRK,
President and Managing Director.
J. K. McCutceron, Sup't. of Agenoles.
H. Rugsell Popham,

Provinoial Manager.

## THE MANUFACTURERS LIFE INSURANCE COMPANY

has proved by its annual report for 1901 , that it is to-day one of the strongest life companies doing business in Canada. Every modern form of policy is issued at the lowest rates consistent with Positive Protection to Policy-Holders.

Business in Force, over - $\$ 27,000,00000$
Hon C. W. ROSS, J.F.JUNKIN, President. Managing Director. Head Office-Toronto.

## Scottish Union and National ${ }^{\text {INsumance }}$ compant <br> Of Edlburgh, sootland.

 ESTABLISHAD 10SS.m. Bymanerw, Jre, Gen. Managor North American Branch, Hartiord, Conn rpit $\quad \$ 30,000,000 \mid$ Inverted Funds...... $813,500,000$ Oppital


insurance.

## British * Imerica assuranoes COMPMNY。 <br> HEAD OFFICE, - - - TORONTO, Incorporated 1833. <br> FIRE AND MARINE。 <br> Cash Capital, <br> \$1,000,000.00 Assets. $\$ 1,776,606.45$ Assets. païd since organnization, .. \$19,946.517.73 Gro. A. Cox, President. J. J. Kenny, Vice-Pres. P. H. Snms, Secretary C. R. G. JOHNSON, Res. Agent, 1723 Notre Dame St., MONTREAL.

## The Mutul lifin mavan noe company

OF NEW YORK.
RICHARD A. McCURDY, President.

STATEMENT FOR THE YFAR ENDING DEC'MBER 31st, 1901

## Assets, - \$352,838,971.67

Peste on Poltcies (American Trable, 4 p.c) RS Pollcies (American 23,171,709.0 Surplus.
Recelpts from all sources.
65,624,805.5
Payments to Policyholders.
42,452,606.50
Raymens and snnuitics in force amornting to....................... $1,243,508,101.1$
Note. -The above statement shows a large increase over the business of in sont at risk, new bnsinese sssumed, payments to policy-holders eaipts. assets and surplus : and includes as risks assumed only the number and amount of pollcies actually issued and paid for in the accounts of the year.

AGENTE WANTED. Apply to
FAYETTE BROWN, Manager, MONTREAL.

## (FOUNDED 1825. ) <br> Law Union \& Grown Ins. Co., (OF LONDON.)

Assets exceed, $=\quad 822,000,000$. Fire rieks accepted on most every description of insurable property. Oanadian Head Office: BEAVER HALL, MONTREAL J. E. E DICKSON, Manager.

Agents Wanted throughout Canada.


CAMERAS for PLATES or ROLL FILMS FITTED WITH LENSES WHICH ENABLE YOU TO TAKE PHOTOGRAPHS IN ALL WEATHER. 31 Hatton Garden, London, England BUSCH CAMERA CO.,

## HUMPHREYS Limited. <br> ESTABLISHED 1834

Manufacturers and shippers of Iron Buildings TO ALL PARTS OF THE WORLD.

Highest Awards-21 Gold and Silver Medals.
Shipping Price Lists and Designs on Application.
Humphreys Ltd., Knightsbridge, London, S. W Cables:- "Humphreys Knightsbridge, London." Code:-A.B.e.

Cpte will appear asisoon as received.

## NEW YORK LIFE INEURANOE COMPANY.

JONW A. MCCALL, Presidant
Gain In Insurance In force 1901 $\$ 168,000,000$
AN UNPARALLELEED RECORD.
Applications invited by the undersigned for
genersi an apecial agencies, and misnagement of eerritory fr experienced Life Insurance men, as well as fron ose wishing to acquire training and WESTIRRN CA
W.BrIRR CA Br., 496\% Main St., Wtinnipeg, Man. N. B. Br., 12 Lrince Willsm St., St. John, N. B. HaLifax Br., Barrington and Prince sis.
G. F. JOHNSTON,

Ageinox Diriotor,
Company's Bullding, MONTREAL

## J. DUNCAN DAVISON <br> Imperial Bdg. $10 \%$ st. James street, Montreal.

COMMISSOUNER

LUERPOOL \& LONOO \& GIOBE INBURANOM :-: COMPANY.

Available Assets, $\quad$ - $\$ 61,187,216$
Funds Invested in Oanada, - $\$ 3,300,000$
Security, Prompt Paymont and Liberality in the adjuetmont of Losses are the prominent features of this Company.

Oanada Board of Direstorn:
A. F. Gault, Chairman,

W BNYworva j. Buohankar, Doputy Chairman.
Samil. Funligy, G. F. C. SMITH, Residion

Hoad Osec, Oansia Byanolk:
MONTREAL
THE WATERLOO MUTUAL
Fire Insurance Company.
Esveblished in 1868 . Head Omice, Waterloo, Ont.
Total Assets, Jan. 1,'94, \$349, 734.71. Groraz Randatu, Maq,, President; Jomn Smur,
Figq.,Vice President; Frank Haight, Esq. Manager; John Killer, Eeq., Inspector.

GONFEDERATION LIFE ASSOCIATION.

Policies Issued on all Approved Plans.

Oash Values, Extended Insurance, Paid up Policies, GUARANTEED.
W. c. MACDONALD,

Actuary.
J. K. MACDONALD.

Managing Director.
Head Office, - TORONTO.
Montreal Office:
174 ST. JAMES ST.,

\section*{The Royal-Victorial NATIONAL | assurance |
| :---: |
| companve |}

## LIFE INSURANCE COMPANY.

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

 Head Office, Place d'Armes, Montreal.
## BOARD OF DIRECTORS.

PRESIDENTI : JAMES CRATHERN, Esq.

## Vice-Premidients :

ANDREW F, GAULT, Esq., and HON, L. J. FORGET.
HON. JAMES OBBRIEN. HON. ROBT. MACKAY. JONATHAN GODGBON, Esq. DAVID MORRICE, Esq. SAMUWL FINLEY. Wsq.
REV. R. H. WARDHN, D.D. H. N. BATE, Hsq.
GABPARD LOMOINE, Esq. Medigal Director :
T. G. RODDICK, Esq., M.D., M.P., F.R.C.S. General IManager :
DAVID BURKE, Esq., A.I.A., F.s.s.
The new business for the first six months of 1902 shows a large increase over the same period of last year.

Securities deposited with the Dominion Government exceed all liabilities to policyholders.

Agents desiring to represent this Progressive Company with up-to-date plans of Insurance, are invited to corraspond with the HEAD OFFICE, MONTREAL.

## WESTERN ${ }^{\text {ASSUFANCEE }}$

## FIRE AMD MARINE. Incorporated 1851.

Assets, over
$\$ 3,260,000,00$
Annual Income,
3,380,000,0
Head Offloe. - Toronto. Ont.
Hon, Geo. Cox, Pres. J. J. Kenwy Vice-Pres, \& Man.-Dí C. C. Fostrir, Seoretary.

Montreal Branoh, - - 189 ST. JAMES EMREITT, Robt. Bickerdike, Manager.

Routh \& Charlfon, City Agents.

## ALLIANCE

assurance co., Limited,
(With which is united the Imperial Fire Office, established in 1803.)

## Capital, \$25,000,000.

Head Office for Canada, - IMPERIAL BUIIDING, Montreal. P. M. WICKHAM,
G. R. KEARLEY, Asst. Manager.

OF IRELAND.
ESTABLISHED 1822.
Capital Fully Subscribed, - $85,000,000$.
Canadian Branch:
Trafalgar Chambers,
22 St. John Street, Montreal.
H. M. LAMBERT, - Manager.

Crive the
JOURNAL OF COMMERCE JOB PRINTING.

## DISTINCTIVE QUALITIES

 -or-North Star, Crescent and Pearl Batting. Purity, Brightness, Loftiness.

No Dead stock, olly threads nor miserable yollow allings of short staple. Not even in lowest grades. Three gredes-Three pricen and far the beat for the price.

## COMMERCIAL UNION

## ASSURANOE CO., Ltd.,

 Of London, Eingland.FIRE LIFE MARINE
Agencles in all the principle Citles and Towns of the Dominion.
HHAD OFFIOE, Oanadian Branch, - MONTREAL.
JAMES McGREGOR, Manager.

The Linde British Refrigerator Co., Ld, 301 ST. JAMES ST. - MONTREAL. SOLE MANUFACTURERS
COLD-AIR-CIRCULATION SYSTEM.

Over 3,200 Machines Sold. Special Machines for DAIRIES, BUTCHERS,Etc, WRITE FOR INFORMATION.

## FFAAMCE ABD HNSURAHCE REVIEW?

## MClITYYE SOII \& Con

MONTREAL.
IMPORTERS of DRY GOODS.
DRESS GOODS, SILKS, LINENS, SMALL WARES, TREFOUSSE KID GLOVES, ROUILLON KID GLOVES.

18 VIOTORIA SQUARE.
McArthur, Corneille \& Co.
310 to 316 St. Paul Street AND
147 to 151 Oommissioners St., MONTREAL.
Manufacturers and Importers of
White Lead, Colors,
Glass, Varnishes,
Glues, acc.
Oits, Chemicals, Dyestuffs, Tanning Materials, dec.

## agents for

BERLIN ANILINE CO., Berlin, Cermany.
Mannfacturars of Aniline, Colors and other Coal Tar Prodnota.

## JAMIS CORISTINE \& CO.,

$=$ Limited.

Manufacturers and
Importers of

> HATS
> CAPS AND FURS

## ALIREDT, IOLLAND.

Accountant and General Agent, TEMPLE BUILDING,
185 ST. JAMES STREET, MONTREAL, Que.
REPRESENTING
The North Imerican Mercantile Igency Co., New York.
The Ottawa Trust \& Deposit Co. ottawa.
Respectfully silicits corresnondence with Forelgn Respecting
business firms and mannuacturers who may require a corresp indent or agent in the Dominion of Canada. Raper and the Royal Bank of Canada.
$X \quad$ The following Brands Thenufactured by.
THE American Tobacco Co.
OF CANADA, LImited,
Are sold by all the Leading Wholesale CUT TOBACCOS.

## Old Chum,

Seal of North Carolina, Old Gold.
CIGARETTES
Richmond Straight Cut, Sweet Caporal,
Athlete,
Derby.
$x$

## PROPERTY FOR SALE

FOR SALE IN CANADA (ABOUT 5 MILES Wert of Niagara Falls) in the Garden of the Dominion, that First-Class Grain Pasture and Fruit Farm known as "BEECHLANDS," near Thorold and St. Catharines ; p bout $1 / 2$ mile from Market, Churcher, Schoole, efc., about 90 acres fertile loam clay ; Fishing Stream, Barns, Stables and other Outhouses, all for $£ 1,500$. Contains large Stone House, Orehard, Grove and Lawn, Gothic Stone Lodge. Easy Terms. Produces also Grapes, Pears, Peaches, Plums, Cherries, Quinces, Strawberries, etc. Steam rallway to the Falls has been replaced by eleotrio tram through the place.
Address the owner
M. S. FOLEY,

## ROOFIIIG AIID ASPHALTING

OF EVERY DESORIPTION.

Metal Cornices,Skyllghts, \&c.,
Cement and Tlle Floors, Cement Washtubs

## \&c.

Canadun Agents:
Boston Hot Blast Heating, and Pneu-
matic Systom of conveying Mill Stock.

GBO. W. REED \& CO., FOMTRERL.
"Destructors for Town Garbage"


Horsfall Destructor Co., Ltd., Leeds, Eng, Canadians can purchase these furnaces at
$381 / 3$ p.c. cheaper than any other Country.

BLACK DIAMOND FILE WORKS. Еет. 1863. INC. 1895.


HIGHEST AWARDS at TWELVE International Expositions. SPECIAL PRIZE,
GOLD MEDAD; AT ATLANTA, 1898.

## G. \& H. BARNETT COMPANY,

 PHILADELPHIA, PA.Telegraphic Address:
" SWINDEN, LONDON."

## 

MANUFACTURERS
OF
Mining cantumus Plant Specialities.

## London, E.C., - England.

We don't mention minor successes. These are international events.

## Paris-Berlin.

Paris-Bordeaux.
Circuit du Nord.
Paris-Vienna.
All won on WERNER'S.

THE

## WERNER

MOTOCYCLETTE.
We were the first people to build a practical MOTOR BICYCLE, and we have had years more experience than any other firm.

We are about to appoint Sale Agents in all the chief towns in Canada, and will quote to

## Cycle

Agents
very special terms, under the New Preferential Tariff.

# Fast $\Omega$ etal.Edging: Studding $\Omega$ achines 

(PATENTED.)
(Endless Roll System.)
Still the SIMPLEST, CHEAPEST and BEST BUILT Machine for the Trade.
Every Machine Guaranteed. Popular Prices and Terms.

For particulars of this and our NEW BENDING MACHINE, which will bend every kind of Leather, Palp and Strawboard write or see
The leer box Madien IMadiniey On, 78 Turnmill St., CLERKENWELL RD., London, E.C., Eng.

These Box Machines, whioh are made in England


[^0]:    Shippers of EXPORT ALES and STOUTS in Cask or Bottle, C̣hampagne Ginger Ale and other Specialities.

[^1]:    1901. 
[^2]:    Sault Ste. Marie-A. G. Osborne agt W. R. Cunningham \$1,294; Hamilton-O. W. Shipman Co. agt E. S. Brennen \$445; Peterborough-Etta Sells agt Jos. \& Emma L. Mills $\$ 765$; Kingston-E. R. C. Clarkson agt W. J. Moore $\$ 693$; North Bay-E. Boisseau \& Co. agt Parent Bros. \$799; Ottawa-La Banque Nationale agt R. H. Pope et al. $\$ 385$; Agnes G. Percival agt Aime \& Marie Trudel \$2,126; Thurlow-J. Lambert agt Dorland \& Martha Farley $\$ 624$; Toronto-J. Robertson Co. agt J. J. Heydon $\$ 751$;

