

PIANOS!

ORGANS!!

DEZOUCHE & CO.,
233 ST. JAMES STREET,
MONTREAL.

SOLE AGENTS FOR
Decker Bros.' Pianos,
Emerson Pianos,
Stevenson & Co. Pianos,
Mason & Hamlin Organs.

SEND FOR CATALOGUES.

DeZOUCHE & CO.,
232 ST. JAMES STREET,
MONTREAL.

THE NORTHWEST RAILWAY TRAVELER.

When you Advertise Put Your Money Where it Will Do the MOST GOOD.

This paper is officially recognized by the St. Paul, Minneapolis & Manitoba Railway, over whose lines it has the exclusive right of circulation. It covers an extent of country, the greatest of any other paper of this character in the Northwestern Country, and is therefore far ahead of all others in the advantages it offers to advertisers in the following respects:

THE REASONS WHY:

It is the only daily paper of the kind and has the largest circulation in Manitoba and the Northwest Territory.

It reaches more cities, hotels, depots, reading rooms, real estate offices, and traveling men and incoming settlers than any other periodical of like character.

Copies sent free on application. All communications relative to advertising should be addressed to the manager.

D. E. ROSELLE,

257 and 259 First Avenue South,
Minneapolis, Minn.

P. O. Box 888, Winnipeg.

THE "SKREI" Cod Liver Oil.



Pure, Pale and almost

tasteless. No other Oil to compare with it.

KENNETH CAMPBELL & CO.

THE BURLAND LITHOGRAPHIC COMPANY (LIMITED)

CAPITAL \$200,000,

GENERAL

Engravers, Lithographers, Printers

AND PUBLISHERS,

3, 5, 7, 9 & 11 BLEURY STREET, MONTREAL.

THIS ESTABLISHMENT has a capital equal to all the other Lithographic firms in the country, and is the largest and most complete Establishment of the kind in the Dominion of Canada, possessing all the latest improvements in machinery and appliances, comprising:—

- 12 POWER PRESSES
- 2 PATENT ENVELOPE MACHINES, which make, print and emboss envelopes by one operation.
- 1 PATENT LABEL GLOSSING MACHINE,
- 1 STEAM POWER ELECTRIC MACHINE,
- 4 PHOTOGRAPHING MACHINES,
- 2 PHOTO-ENGRAVING MACHINES,
- Also CUTTING, PERFORATING, NUMBERING, EMBOSING, COPPER PLATE PRINTING and all other Machinery required in a first class business.

All kinds of ENGRAVING, LITHOGRAPHING, ELECTROTYPING AND TYPE PRINTING executed IN THE BEST STYLE

AND AT MODERATE PRICES.

PHOTO-ENGRAVING and LITHOGRAPHING from pen and ink drawings A SPECIALTY.

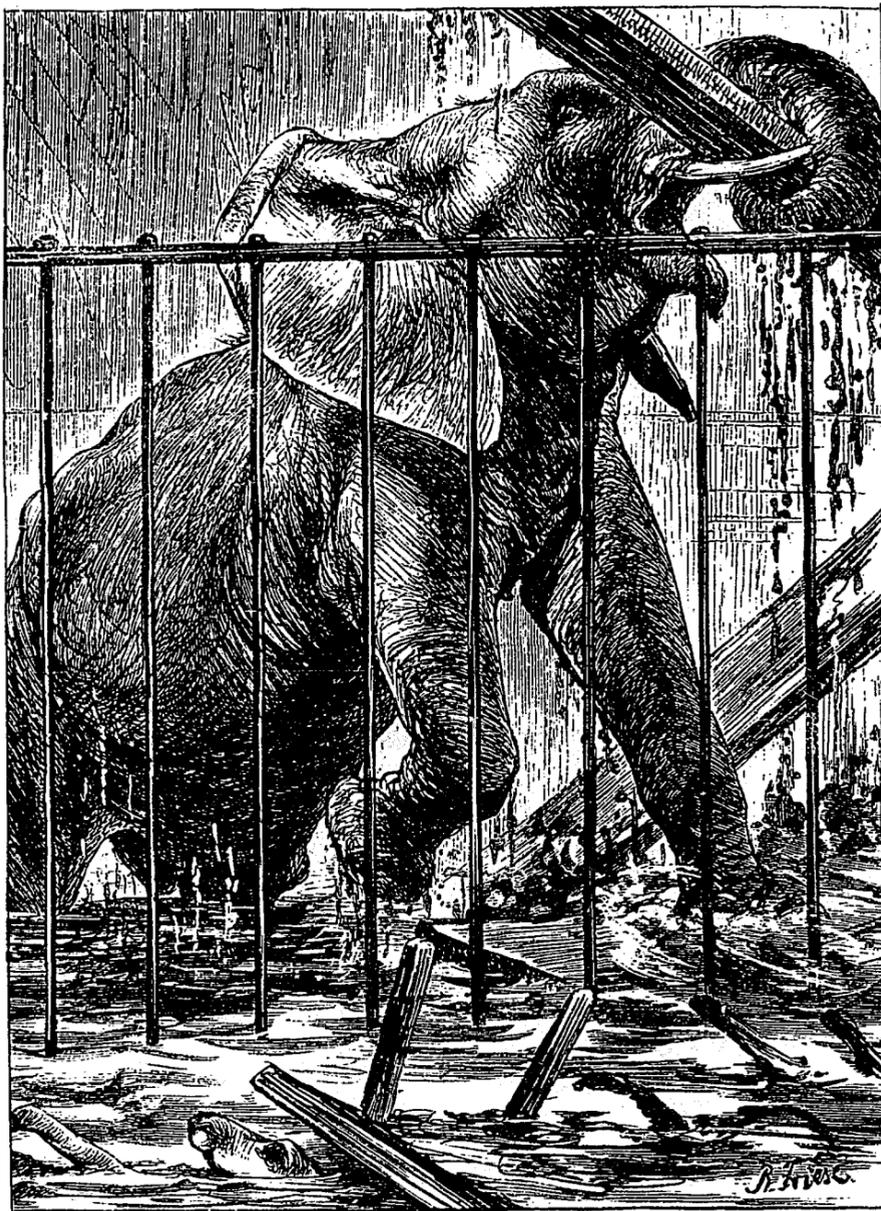
The Company are also Proprietors and Publishers of the **CANADIAN ILLUSTRATED NEWS,** **L'OPINION PUBLIQUE,** and **SCIENTIFIC CANADIAN.**

A large staff of Artists, Engravers, and Skilled Workmen in every Department.

Orders by mail attended to with Punctuality; and prices the same as if given personally.

G. B. BURLAND,

MANAGER.



THE FLOODS IN GERMANY.—IN THE BERLIN ZOOLOGICAL GARDENS.

LIEBIG COMPANY'S



EXTRACT OF MEAT

FINEST AND CHEAPEST MEAT-FLAVOURING STOCK FOR SOUPS, MADE DISHES & SAUCES.

An invaluable and palatable tonic in all cases of weak digestion and debility. "It is a success and a boon for which Nations should feel grateful."—See *Medical Press, Lancet, British Medical Journal, &c.* To be had of all Storekeepers, Grocers, and Chemists. Sole Agents for Canada and the United States (wholesale only) **C. David & Co., 9, Fenchurch Avenue, London, England.**

CAUTION.—Genuine ONLY with fac-simile of Baron Liebig's Signature in Blue Ink across Label. This Caution is necessary, owing to various cheap and inferior substitutes being in the Market.

LEA & PERRINS' SAUCE



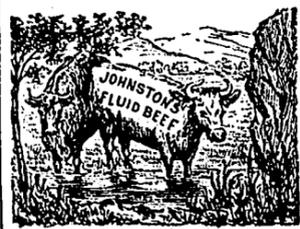
In consequence of Imitations of THE WORCESTERSHIRE SAUCE which are calculated to deceive the Public, Lea and Perrins have to request that Purchasers see that the Label on every bottle bears their Signature thus—



without which no bottle of the original WORCESTERSHIRE SAUCE is genuine.

Ask for LEA and PERRINS' Sauce, and see Name on Wrapper, Label, Bottle and Stopper. Wholesale and for Export by the Proprietors, Worcester; Cross and Blackwell, London, &c., &c.; and by Grocers and Oilmen throughout the World.

To be obtained of MESSRS. J. M. DOUGLASS & CO., MONTREAL; MESSRS. URQUHART & CO., MONTREAL.



JOHNSTON'S FLUID BEEF

is being adopted in the British, French, U. S. and Austrian Naval, Military and General hospitals. It is prescribed by the Queen's physician, and by every medical

man who has tested its merits. It is the only essence known which contains all the nutritive constituents of beef, and is pronounced by scientific men everywhere to be the most perfect food for invalids ever introduced. Sold by Druggists and Grocers, 35c., 60c., and \$1.00.



STEPHENS & LIGHTHALL,
Advocates, Attorneys and Commissioners,

341 1/2 NOTRE DAME STREET,

(Opposite Exchange Bank).

C. H. STEPHENS, B.C.L.

W. DOW LIGHTHALL, B.A., B.C.L.

FURNITURE.

FINE AND MEDIUM AN IMMENSE STOCK.

HENRY J. SHAW & CO.,
726 Craig St. (Near Victoria Sq.)

THE COOK'S FRIEND BAKING POWDER

Has become a HOUSEHOLD WORD in the land, and is a HOUSEHOLD NECESSITY

in every family where Economy and Health are studied. It is used for raising all kinds of Bread, Rolls, Pancakes, Griddle Cakes, &c., &c., and a small quantity used in Pie Crust, Puddings, or other Pastry, will save half the usual shortening, and make the food more digestible.

THE COOK'S FRIEND

SAVES TIME, IT SAVES TEMPER, IT SAVES MONEY.

For sale by storekeepers throughout the Dominion and wholesale by the manufacturer.

W. D. McLAREN, UNION MILLS,

19-52-36a

55 College Street.

THIS PAPER MAY BE FOUND ON FILE AT GEO. P. ROWELL & CO'S Newspaper Advertising Bureau (10 SPRUCE STREET), WHERE ADVERTISING CONTRACTS may be made for it in **NEW YORK.**

Prospectus for 1883.

Canadian Magazine

OF

Science and the Industrial Arts.

PATENT OFFICE RECORD.

EDITOR—HENRY T. BOVEY, M.A. (Camb.), Associate Memb. Inst. C.E.; Memb. of Inst. M.E. (Eng.) and American Inst. M.E., Professor of Civil Engineering and App. Mechs., McGill University.

THE PROPRIETORS have great pleasure in informing the Subscribers to the **SCIENTIFIC CANADIAN**, and the Public in general, that arrangements have been made by which PROF. BOVEY will undertake the editorship of this Magazine at the beginning of the New Year, when the name of the publication will be changed to the **CANADIAN MAGAZINE OF SCIENCE AND THE INDUSTRIAL ARTS.**

Every effort will be made to render the publication a useful vehicle for the conveying of information respecting the latest progress in Science and the Arts.

It is hoped that the **MAGAZINE** will also be a medium for the discussion of questions bearing upon Engineering in its various branches, Architecture, the Natural Sciences, etc., and the Editor will gladly receive communications on these and all kindred subjects. Any illustrations accompanying such papers as may be inserted will be reproduced with the utmost care.

The First Number will contain, among others, articles on Technical Education by J. CLARKE MURRAY, L.L.D.; on Cable Traction for Tramways and Railways, by C. F. FINDLAY, M.A., Associate Memb. Inst. C.E.; and on the Transit of Venus by ALEXANDER JOHNSON, L.L.D.

A space will be reserved for Notices and Reviews of New Books, and Resumes will be given of the Transactions of various Engineering and Scientific Societies.

The **PATENT OFFICE RECORD** will continue to be a special feature of the Magazine; and will be published as an Appendix to each number. The Illustrations, however, will be considerably enlarged, so that each invention being more easy to examine will be made clearer and more intelligible to the general reader. This **RECORD** gives information of the greatest value to engineers, manufacturers, and to all persons interested in the different trades.

In view of these great improvements the subscription price will only be **\$2.50 payable in advance**, and it is confidently anticipated that a large increase will be made in the number of subscribers.

The efficiency and success of the Magazine, the only one of the kind in Canada, must in a great measure, depend upon the hearty co-operation and support of the Public.

NOTE.—All communications relating to the Editorial department should be addressed to the Editor, 31 McTavish St., Montreal.

All business communications, subscription, and payments to be addressed G. B. BURLAND, Manager, BURLAND LITHOGRAPHIC CO., 5 & 7 Bleury St., Montreal.

Advertising rates will be given on application to the Office of the Company.

Agents Wanted in every Town and City in the Dominion to solicit Subscriptions and Advertisements, for which liberal commissions will be paid.