



A MAID WHO LITERALLY MINDS HER OWN BUSINESS.

Canadian Magazine

OF Science and the Industrial Arts.

PATENT OFFICE RECORD.

EDITOR—HENRY T. BOVY, 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. Mech., McGill University.

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.

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 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, subscriptions, 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.

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, 19-21-36a 25 College Str.

FITTS A Leading London Physician establishes an Office in New York for the Cure of EPILEPTIC FITS.

Dr. Ab. Meserole (late of London), who makes a specialty of Epilepsy, has without doubt treated and cured more cases than any other living physician. His success has simply been astonishing; we have heard of cases of over 20 years' standing successfully cured by him. He has published a work on this disease, which he sends with a large bottle of his wonderful cure free to any sufferer who may send their express and P. O. Address. We advise any one wishing a cure to address Dr. Ab. MESEROLE, No. 22 John St., New York.

CANVASSERS WANTED.—To solicit subscriptions and advertisements for the CANADIAN MAGAZINE OF SCIENCE AND THE INDUSTRIAL ARTS, to whom liberal commissions will be paid. Intelligent young women would find this agreeable and profitable employment. Address, G. B. BURLAND, 5 & 7 Bleury Street, Montreal.

THE "SKREI"
Cod Liver Oil.
Pure, Pale and almost tasteless. No other Oil to compare with it.
KENNETH CAMPBELL & CO.

CASTOR FLUID (Registered)
A delightfully refreshing preparation for the hair. Should be used daily. Keeps the scalp healthy, prevents dandruff, promotes the growth. A perfect hair dressing for the family. 25c. per bottle.
HENRY R. GRAY, Chemist,
Sole Manufacturer,
144 St. Lawrence Main Street.

40 CARDS all lap-corner, Gilt Edge, Glass, Motto and Chromo, Love Letter and Case name in gold and jet, 10c. WEST & CO., WESTVILLE, CONN.

D. M. FERRY & CO'S SEED ANNUAL
FOR 1883.
Will be mailed FREE to all applicants, and to customers of last year without ordering it. It contains about 175 pages, 600 illustrations, prices, accurate descriptions and valuable directions for planting 150 varieties of Vegetable and Flower Seeds, Plants, Fruit Trees, etc. Invaluable to all, especially to Market Gardeners. Send for it!
D. M. FERRY & CO. DETROIT MICH.

British American BANK NOTE COMPANY,
MONTREAL.
Incorporated by Letters Patent
Capital \$100,000.

General Engravers & Printers
Bank Notes, Bonds,
Postage, Bill & Law Stamps,
Revenue Stamps,
Bills of Exchange,
DRAFTS, DEPOSIT RECEIPTS,
Promissory Notes, &c., &c.,
Executed in the Best Style of Steel Plate Engraving.
Portraits a Specialty.
G. B. BURLAND,
President & Manager

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—

Lea & Perrins
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; Crosse 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.

LIEBIG COMPANY'S EXTRACT OF MEAT

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

An invaluable and palatable tonic in all cases of weak digestion and debility. "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) G. David & Co., 9, Fenchurch Avenue, London, England.

GRAY'S RED SPRUCE GUM
SOLD BY ALL DRUGGISTS

JOHNSTON'S FLUID BEEF
has been pronounced by leading scientists and physicians everywhere to be the most perfect form of concentrating nourishment at present known. It is rapidly superseding Tea and Coffee in the colder European countries, and is served hot on draught in the fashionable Saloons and Restaurants. As a Winter Beverage it is simply perfection, supplying heat in its natural state; stimulant in a thoroughly innocuous form; concentrated nourishment, rendering languid reaction impossible; and, above all, furnishing tone to the nerves, and substantial food for brain, bone and muscle.

FURNITURE.
FINE AND MEDIUM.
AN IMMENSE STOCK.
HENRY J. SHAW & CO.,
726 Craig St. (Near Victoria Sq.)

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.

THIS PAPER MAY BE FOUND ON FILE AT GEO. F. ROWELL & CO'S Newspaper Advertising Bureau (10 BRUCE STREET), WHERE ADVERTISING CONTRACTS MAY BE MADE FOR IT IN **NEW YORK.**