

### IMPROVED "SAMSON" BATTERY

The Strongest and Best open-circuit Battery in the world.



Cheapest Battery to use.

**JOHN STARR, SON & CO., Limited.**  
HALIFAX, N. S.  
Agent for Ontario and Quebec:  
**JOHN FORMAN,** - **MONTREAL**

Please mention the **ELECTRICAL NEWS** when corresponding with advertisers.

ESTABLISHED 1849.  
**CHARLES F. CLARK,** President. **JARED CHITTENDEN,** Treasurer.

**BRADSTREET'S**  
Capital and Surplus, \$1,500,000.  
*Offices Throughout the Civilized World*

Executive Offices:  
Nos. 346 and 348 Broadway, New York City, U.S.A.  
THE BRADSTREET COMPANY gathers information that reflects the financial condition and the controlling circumstances of every seeker of mercantile credit. Its business may be defined as of the merchants, by the merchants, for the merchants. In procuring, verifying and promulgating information, no effort is spared, and no reasonable expense considered too great, that the results may justify its claim as an authority on all matters affecting commercial affairs and mercantile credit. Its offices and connections have been steadily extended, and it furnishes information concerning mercantile persons throughout the civilized world.  
Subscriptions are based on the service furnished, and are available only by reputable wholesale, jobbing and manufacturing concerns, and by responsible and worthy financial, fiduciary and business corporations. Specific terms may be obtained by addressing the company at any of its offices. Correspondence invited.

**THE BRADSTREET COMPANY.**  
Toronto Office: Cor. Melinda and Jordan Streets.  
Hamilton Office: No. 39 James Street South.  
London Office: No. 365 Richmond Street.  
Winnipeg Office: No. 398 Main Street.  
Vancouver Office: Cor. Hastings and Hamilton Streets.  
Victoria Office: Board of Trade Building.  
THOS. C. IRVING, Gen. Mgr. Western Canada,  
TORONTO, ONT.

**CANADIAN OFFICE & SCHOOL FURNITURE CO. LIMITED**  
FINE BANK OFFICE, COURT HOUSE & DRUG STORE FITTINGS.  
OFFICE, SCHOOL, CHURCH & HOME FURNITURE.  
PRESTON ONT.  
SEND FOR CATALOGUE

**TENDERS WANTED**  
A Weekly Journal of advance information and public works.  
The recognized medium for advertisements for 'Tenders.'  
**CANADIAN CONTRACT RECORD**  
TORONTO.

**The New System OF EDUCATION**  
**Electrical Engineering**  
Mechanical, Steam, Civil and Mining Engineering; Architecture; Drawing; Surveying; Chemistry; Shortland; Book-keeping and English Branches  
**TAUGHT BY MAIL. Over 50 Courses.**  
We have helped thousands to better positions and salaries. Send for free circulars, stating the subject in which you are interested.  
**THE INTERNATIONAL CORRESPONDENCE SCHOOLS,**  
Box 1004, Meranton, Pa.

The **Packard Electric Co., Limited**  
MAKERS OF  
**Lamps and Transformers**

SOLE AGENTS FOR . . . .

**Ssheeffer Recording Watt Meters**



**ST. CATHARINES, ONT.**

## WESTON ELECTRICAL INSTRUMENT CO.

114-120 William Street,  
NEWARK, N.J., U.S.A.



**WESTON STANDARD PORTABLE**  
Direct-Reading  
**VOLTMETERS, MILLIVOLTMETERS, VOLTAMMETERS, AMMETERS, MILLIAMMETERS, GROUND DETECTORS AND CIRCUIT TESTERS, OHMMETERS, PORTABLE GALVANOMETERS**

Our Portable Instruments are recognized as THE STANDARD the world over. Our STATION AMMETERS and VOLTMETERS are unsurpassed in point of extreme accuracy and lowest consumption of energy.

An advertisement in the **ELECTRICAL NEWS** brings prompt returns.

### JUST PUBLISHED

# THE CANADIAN HAND-BOOK OF STEAM AND ELECTRICITY

By **William Thompson**



THE preparatory chapters are devoted to a concise explanation of the foundation principles of Mathematics, a knowledge of which is absolutely necessary to the study of Electricity and Engineering. In the succeeding chapters the student is led by gradual stages to a more complete acquaintance with these subjects, and is equipped with knowledge to enable him to pursue his researches to any further extent.

Price - 50 Cents

THE **C. H. MORTIMER PUBLISHING CO.**  
of TORONTO, Limited

TORONTO - CANADA

170 Pages Illustrated

In Strong Cloth Binding

Send for Table of Contents.