TECHNICAL EDUCATION **50** CENTS A WEEK

For $1 down and $1 a month, we give AN EDUCATION in:

ELECTRICITY

Steam Engineering; Mechanical or Civil Engineering; Refrigeration; Chemistry; Mining; Architecture; or Mechanical Drawing; Surveying and Mapping; Sanitary Plumbing; Architecture; Sheet Metal; Pattern Drafting; Prospecting; Bookkeeping; Shorthand; English Branches.

TAUGHT BY MAIL

All subjects **GUARANTEED SUCCESS.**

We have helped thousands to better positions. *Circular Free. State subject you wish to Study.*

International Correspondence Schools, Box. 804 Scranton, Pa.

PATENTS PROCURED ON *ELECTRICAL INVENTIONS*

BY **RIDOUT & MAYBEE,** 103 Bay St., Toronto Telephone 2582.

Foreign Members of Chartered Institute of Patent Agents, England.

CANADIAN OFFICE & SCHOOL FURNITURE CO. LIMITED PRESTON ONT.

FINE BANK OFFICE, COURT HOUSE & DRUG STORE FITTINGS. OFFICE, SCHOOL, CHURCH & LODGE FURNITURE. SEND FOR CATALOGUE

THE

Remington

Standard Typewriter

does, and always has done, the

BEST WORK

for the longest time, with the least effort on the part of the operator, and at the least expense to the owner.

New Models Now Better Than Ever Before.

EDISON'S MIMEOGRAPH The New Process for Reduplicating any Number of Copies from One Original.

⅓ the Price of Printing.

CHAS. E. ARCHBALD

45 Adelaide St. E., TORONTO

Advertise in the ELECTRICAL NEWS.

The National Tube Works Company

The Largest Makers of All Sizes and Kinds of

Special Wrought Mild Steel and Best Wrought Iron Tubular Goods in the World.

Control the Manufacture of

Wrought Tubular Goods,

—Made of a High Class of Mild Steel from the Ore to the Finished Product—and Unqualifiedly Recommend NATIONAL STEEL PIPE for all uses as Better than any Iron Pipe made.

McKEESPORT, PA.

The Packard Electric Co., Limited

MAKERS OF

Lamps and Transformers

SOLE AGENTS FOR....

Ssheeffer Recording Watt Meters

ST. CATHARINES, ONT.

WRITE FOR PRICES ON

LAMPS

Sockets, Cut-Outs, Wiring Supplies, Induction Alternators, Etc., Etc., Etc.

MUNDERLOH & CO.

61 St. Sulpice St., MONTREAL

·Perfect Combustion. No Smoke. No Ash. Saving from 15 to 40%.

WAKE UP! Steam Users; Your Coal Bill is Far Too High

The following are the results of Competitive and Ordinary Working Tests made at the Terauley street Station of the Toronto Incandescent Light Co. between the Improved Jones' Underfeed Mechanical Stoker and EXCELLENT Hand Firing:

GO OVER EACH ITEM CAREFULLY

Points Observed.	Competitive.		Ordinary.	
	Jones'.	Hand.	Jones'.	Hand.
Duration of test in hours	94.2	93.75	18.	18.
Total coal burned, including wood equiv., in lbs.	74447.	81770.	13600.	15000.
Water evap. from temp. of feed, in lbs.	621080.	593945.	126113.	112338.
Average steam pressure	159.7	158.5	158.	158.
Total ash	6158.	8998.	Not	weighed.
Actual evap. per lb. coal from temp. of feed in lbs.	8.3426	7.262	9.227	7.489
" " " comb. " " " "	9.081	8.161	....	....
Equiv. " " coal from and at 212°, in lbs.	9.332	8.121	10.3342	8.3876
" " " comb. " " " "	10.147	9.127	....	....
Percentage ash	8 2	11.	....	....
Relative economy	114.78	100.	123.2	100.

QUESTION—If the above results are obtained with Excellent Hand Firing, what would the results be with Indifferent and Poor Firing? Think on this and then ask yourself if you can afford to be without the Stoker. It is the ORDINARY WORKING Test that tells the tale, not the COMPETITIVE.

Write for Prices and Other Particulars to the .....

THE WEEKS-ELDRED CO., OF TORONTO, LIMITED,

CONSULTING ENGINEERS and Sole Manufacturers for Canada of the....

IMPROVED JONES' UNDERFEED MECHANICAL STOKER

Factory: St. Thomas. 80 CANADA LIFE BUILDING.