

# CONTRACTOR'S SUPPLIES

To know where to look for what you want, to know where to dispose of what you don't want is a great convenience. You require special equipment. This department will enable you to get in touch quickly with reliable men who wish to dispose of that which you require. Whether a buyer or a seller, you will find this department an aid to business.

RATES FOR THIS DEPARTMENT ARE VERY SPECIAL. BETTER SEND FOR THEM.

## FOR SALE

### FIRE BOX BOILERS.

- 1 refitted 48" x 20' with 52 3" tubes.
- 1 refitted 44" x 18' with 48 3" tubes.
- 1 new 39" x 14' 8" with 36 3" tubes.
- 1 refitted 36" x 12' 11" with 43 2 1/2" tubes.

### AUTOMATIC ENGINES.

- 1 13" and 23" x 30" tandem compound, Wheelock.
- 1 refitted 14" x 34" R. H., Wheelock.
- 1 9 1/2" and 14 1/2" x 12" automatic tandem compound.
- 1 8" and 13" x 18" automatic tandem compound.
- 1 refitted 12" x 10" Westinghouse Junior.
- 1 refitted 12" x 12" Armington & Sims.
- 1 refitted 10" x 10" Leonard, peerless, self-oiling.
- 1 new 10" x 15" Jewel.
- 1 nearly new 8" x 12" Erie, centre-crank.
- 1 refitted 6 1/2" x 9" Armington & Sims.
- 1 rebuilt 7" x 10" Leonard, centre-crank.

### PORTABLE ENGINES AND BOILERS.

- 1 refitted 9" x 12" portable engine and boiler.
- 1 refitted 9" x 10" semiportable engine and boiler.
- 1 refitted 8" x 12" semiportable engine and boiler.
- 1 refitted 8" x 10" portable engine and boiler.
- 1 rebuilt 7" x 10" portable engine and boiler.

### CENTRIFUGAL PUMPS.

- 1 8" centrifugal sand pump with hose and pipe.
- 1 new 900-gallon vertical centrifugal pump.
- 1 new 735-gallon vertical centrifugal pump.
- 1 refitted 400-gallon horizontal centrifugal pump.
- 1 new 260-gallon vertical centrifugal pump.

New modern sand lime brick plant complete, a bargain, immediate delivery.

A copy of our supply catalogue or monthly stock list for the asking.

**H. W. PETRIE, Ltd.**

Toronto Montreal Vancouver

## STAMP MILL EQUIPMENT FOR SALE

### 1.10 Stamp Mill Complete 1.20 Stamp Mill Complete

The above supplied with Crushers, Tables, etc., all put in good shape.

## A. F. FIFIELD

ST. CATHARINES, ONT.

## JARDINE UNIVERSAL CLAMP RATCHET DRILL

Indispensable for Machine Repairs, Factories, Machine Shops, Bridge Builders, Track Layers, Structural Metal Workers, have use for it. Send for description.

## A. B. JARDINE CO.,

HESPELER, ONT.

### NEW INCORPORATIONS.

**Unity, Sask.**—Round Valley Coal Company.

**Howell, Sask.**—Howell Supply Company.

**Moose Jaw, Sask.**—Coast Lumber Company.

**Saskatoon, Sask.**—North-West Exploration Company.

## POLSON IRON WORKS, Limited

TORONTO, ONTARIO

have the following :

- 1 Horizontal Boiler 36 x 12.
- 1 Horizontal Boiler 38 x 14.
- 1 Horizontal Boiler 48 x 11' 6".
- 2 Horizontal Boilers 48 x 12.
- 2 Horizontal Boilers 54 x 12.
- 1 Horizontal Boiler 60 x 14.
- 2 Horizontal Boilers 60 x 16.
- 6 Fitzgibbon Type Portable Boilers 60 h. p. each, good for 60 lbs. steam pressure.
- 1 Heine Water Tube Boiler, 70 h. p.
- 3 Heine Water Tube Boilers, 125 h. p.
- 2 Yarrow Water Tube Boilers, suitable for Tugs or Steamers.

**Dundurn, Sask.**—Schwager Schwanbeck Grain Company.

**Milestone, Sask.**—Farmers' North-East Telephone Company, of Milestone. Gray Milestone Telephone Company.

**British Columbia.**—British Columbia Refining Company, \$300,000. Cariboo Timber Company, \$300,000. Duncans Lumber Company, \$25,000. Great Granite Development Syndicate, \$500,000. Vancouver Fiber Company, \$600,000. Westward Ho Publishing Company, \$50,000.

The Canadian Electrical and Motor Company's exhibit at the Canadian National Exhibition was divided in two, owing to their not being able to obtain sufficient space. Their exhibit in Machinery Hall consisted of one 25 k.w., belted type, 125 volt generator, manufactured under the patents of W. A. Johnson. The peculiar feature of this generator, as well as of the alternating current generator manufactured under similar principle of construction, is that they can be short circuited under any condition of operation without injury to either the direct current or alternating current generators. The driving power, be it engine or water wheel, being relieved of the load as long as the short circuit continues across the generator terminals or line. The generator above referred to, was short circuited probably 100 times a day during the Exhibition. A similar generator was operated by a gas engine, in the exhibit of the Canadian Gas Power Launches Co., Limited, in the Process Building. The first mentioned generator operated one of Mr. Johnson's Multispeed motors, with which change of speed is obtained by moving a handle attached to the magnetic parts of the frame and without the use of any resistance coils. The saving in operating printing presses and many machine tools, would pay for the motor within two years when compared with ordinary variable speed motors. This company also had another exhibit in the Process Building, where one of their 75 horse-power direct cur-

rent generators was directly driven by flexible coupling attached to a Weber 75 horse-power 280 revolution upright, 2 cylinder gas engine, which in turn was supplied by a Weber gas producing generator. A Multispeed motor was also shown in operation in this exhibit. The operation of these motors without rheostats and the short circuiting of the generators, attracted a great deal of attention from the electrical and mechanical visitors among whom were several college professors and each and all admitted that they had never seen similar results in any electrical machine.

### HEIGHTS OF LARGE BRIDGES.

Height of old Quebec Bridge...	150 feet above high water.
Tower Bridge, London.....	143 feet above high water.
Baltic Canal Bridge .....	137 feet above high water.
East River, New York.....	135 feet above high water.
Manchester Ship Canal .....	75 feet above high water.

### SITUATION WANTED

Civil Engineer open for Engagement. Expert in the design and construction of bridges, buildings, foundations, railroads, water powers, canals &c. Twenty years' experience. Canadian graduate. Large Acquaintance. Reply to

CHIEF ENGINEER,

12133 Eggleston Ave., Chicago.