

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

# MUNICIPAL DEPARTMENT

## THAWING OF WATER PIPES BY ELECTRICITY.

(Continued from last issue.)

The second wire from the switch is then taken to the watt meter, then by means of two No. 6 wires, is connected to lower plate in water rheostat. The wires from the top plate in the water rheostat are so connected to the other end of the frozen pipe that the frozen part remains between the terminals of the secondaries. A volt meter should be inserted in circuit after leaving the rheostat, and the rheostat so adjusted that the current will be reduced to 50 volts. In ordinary sizes of black or galvanized iron pipe the voltage should not exceed 50 volts. For from 4" to 6" cast iron pipes the pressure may be increased to 100 volts. In any case a strong ampere current should be used. The current is then turned on and carefully manipulated.

Only a very few moments are necessary ordinarily to thaw out water service pipes. The connections are made at any most convenient point where the pipe is exposed, a city hydrant, private pipe, or faucet in dwelling may be used.

It is necessary to use a source of current which does not affect the electric light lines by the grounding effected through connecting with the pipe, or danger may result.

In using this method to thaw the frozen condensation found in gas pipes the experience was that the thawing process had to be continued for a longer period of time.

Mr. John Murphy, superintendent of power houses, and Mr. W. G. Bradley,

## DEBENTURES BOUGHT

Municipalities saved all possible trouble by applying to

**G. A. STIMSON & CO.**  
Investment Dealers

24 and 26 King St. W. - TORONTO

## Paving Granite

Granite Sets for Street Paving. — CURBING cut to any shape ordered. — Fine Rich Colors for Building and Monumental Purposes.

Quarries, St. Philippe d'Argenteuil, P. Q.

Address all communications to

**JOS. BRUNET - COTE DES NEIGES, MONTREAL**



THIS Preparation is used for the following purposes: Prevention of Dry Rot, Fungus, Decay and the attack of White Ant and Termites in Timber; Preservation of Beams, Sills, Flooring, Wainscoting, Shingles, Wood Curbing, Sidewalks, Slab-walks, and Block Pavements. Preparation for sale or Timber treated at Factory, Corner Shaw Street and C. P. R. Track.

Circulars sent of Application. • • Tel. 978.

## THE PHOENIX BRIDGE & IRON WORKS

MANUFACTURERS OF STAY BOLTS AND ALL KINDS OF RIVETS

STEEL AND IRON STRUCTURAL AND ARCHITECTURAL WORK

Beams, Channels, Angles and  
Tees always in stock.

29 to 49 McGill Street,

P.O. Box 893.

MONTREAL

Prices on Application.

## W. & F. P. CURRIE & CO.

MONTREAL

Importers of

SEWER PIPES.

CHIMNEY TOPS,

VENT LININGS,

FLUE COVERS,

FIRE BRICKS,

FIRE CLAY,

WHITING.



PORTLAND CEMENTS,

HIGH GRADE ENGLISH

B. S. & Co. "ANCHOR,"

ALSO OTHER BRANDS,

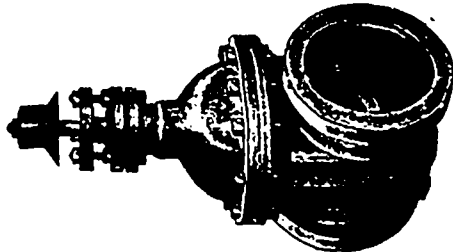
PLASTER OF PARIS,

BORAX,

CHINA CLAY.

## The KERR ENGINE COMPANY, Limited

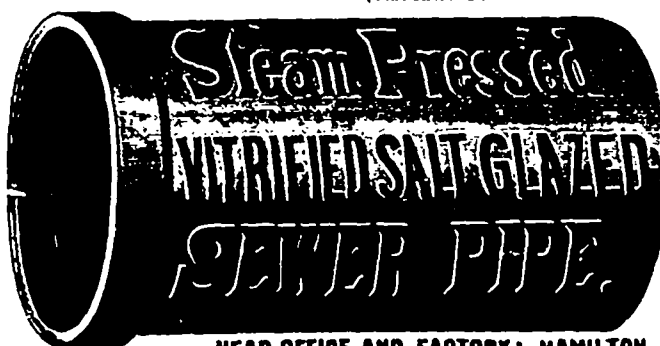
OUR goods are recognized as of the first quality by all who have used them. Information and prices given cheerfully upon application.



WALKERVILLE, - - ONTARIO



## THE HAMILTON AND TORONTO SEWER PIPE CO. (LIMITED.)



— FOR —  
**SEWERS,  
CULVERTS  
AND  
WATER PIPES.  
INVERTS  
For Brick Sewers**

Write for Discounts

HEAD OFFICE AND FACTORY: HAMILTON, CANADA

## THE STANDARD DRAIN PIPE CO. OF N. Y. JOHN. P. O., (LIMITED)



Manufacturers  
**Salt-Glazed  
Vitrified  
SEWER  
PIPES**

Double Strength  
Railway Cul-  
vert Pipes,  
Inverts, Vents,

AND ALL KINDS OF FIRE CLAY GOODS