

NEW COMPANIES.

George Ryan Shoe Company, Winnipeg, incorporated, capital \$50,000. Directors, George Ryan, Edmund L. Taylor and others.

Morris Brick Manufacturing Company, Morris, Man., incorporated, capital \$20,000. Directors, A. Chisholm, general merchant; John N. Phillips, hardware merchant and others.

Deloraine Milling Company, Deloraine, Man., incorporated, capital \$40,000. Directors, James Steadman, W. S. Barker, George Patterson and others.

Acme Brick Company, Winnipeg, Man., incorporated, capital \$100,000. Directors, W. F. Hull, barrister; Louis Surpan, merchant, and others.

Gurney Northwest Laundry Company, Limited, Winnipeg, Man., incorporated, capital \$250,000. Directors, Edward Gurney, W. H. Carrick, W. F. Helliwell, and others, all of Toronto.

Canada Construction & Dredging Company, Limited, Toronto, incorporated, capital \$60,000. Incorporators, J. B. Bartram, C. M. Bartram and others.

Northern Reduction Company, Limited, Toronto, incorporated, capital \$500,000 to carry on mining and smelting business. Incorporators, W. C. Mackay, F. D. Byers and others.

REPAIRING BROKEN SUBMERGED WATER MAINS.

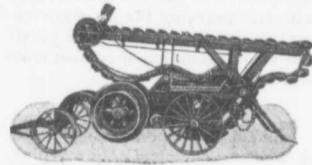
A paper by Mr. Harry A. Lord, of Ogdensburg, N. Y., read at the recent convention of the American Waterworks Association in Toronto, told how he repaired a break in a 12 inch submerged cast iron pipe line, which had Ward flexible joints. The submerged pipe was 350 feet long, and was laid on the rock bottom of the river in a normal water depth of 8 feet. After seven years of service without mishap an ice jam broke a single length of pipe at a joint. The current was

very strong and the ends of the ruptured pipe were 15 feet apart. Following, in reverse order, the method employed by Mr. Ward in laying the pipe in 1898, the pipe was disconnected at the shore ends, and then pulled ashore by means of horses, a capstan, block and tackle. The joints were melted out with kerosene heaters as they came ashore. The disconnected pipe was cleaned, treated with waterproof metallic paint, reconnected, and then hauled back to position. A test showed that it was tight.

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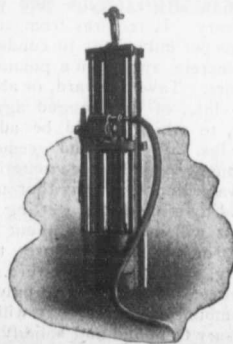
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