

Volume XIII. }

TORONTO, ONT., JANUARY, 1892

# In Use by Eight Leading ... Governments...



MAGNOLIA ANTI-FRICTION METAL CO. Owners and Sole Manufacturers

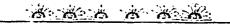
London Office: 75 Queen Victoria St. Chicago Office: 41 Traders Building

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H. Mcl. AREN & Co., Agents

74 CORTLANDT STREET

### NEW YORK



THE MAGNOLIA ANTI-FRICTION METAL CO. 74 Cortlands Street, New York, N.Y.

THE MAGNOLIA ANTI-FRICTION METAL Co.
74 Cortlandt Street, New York, N.Y.
New York, N.Y., March 5, 1891.

Gentlinen,—About March 26, 1890, samples of metal marked "Spooner's Finest Copperine Babbit" were submitted to me for text; its test showed finest results, and on analysis, it proved to contain no copper, and approximated the formula of Magnolia Metal.

In October of the same year other samples with same marks were submitted for text, and tested in comparison with Magnolia Metal, upon our new testing machine, built at great expense. This text for temperatures showed Magnolia Metal to have less friction and a temperature of about noo degrees less. On December 11st this perfected text piece of Copperine was tested again with the result of its fusing with ten minutes run of 1600 pounds to the square inch.

On January 31st Magnolia Metal was tested, which ran fifteen minutes with 1800 lbs to the sq. inch, and one hour with 2000 lbs. to the sq. inch, and one hour with 2000 lbs. to the sq. inch, and at the end of the hour the metal showed a temperature of 200 degrees Fahrenheit. Under separate cover we hand you detailed reports of the tests, showing velocity of rubbing surface about 2000 feet per minute, diameter of shaft 5 inches, and revolutions about 1500.

Yours truly, H. G. TORREY.

NOTR.—Mr. Torrey is U.S. Assayer, and has been in U.S. Mint ser vice at New York for 30 years.



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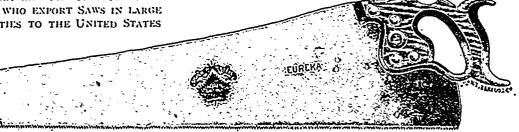


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