

# THE CRITIC:

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HALIFAX, N. S., JUNE 5, 1891.

{ VOL. 8  
No. 23

## PICKFORD & BLACK'S AGENCIES

**FURNESS LINE.**  
BETWEEN  
**HALIFAX AND LONDON.**

The following Steamers keep up regular sailings—  
S. S. OTTAWA - Capt. Dixon.  
S. S. DUART CASTLE  
Capt. Harrison.  
S. S. DAMARA - Capt. Lygas.  
LONDON AGENTS:  
THOMAS RONALDSON & CO.,  
34 Leadenhall Street.

The above Steamers have First Class Accommodation for Passengers. Carry a Stewardess and do not carry Cattle.

Halifax to Charlottetown  
VIA  
INTERMEDIATE PORTS.

It is intended to sail the  
**S. S. FASTNET,**  
A. H. KELLY, Commander,  
Every Monday Night at 10 o'clock.

CALLING AT  
Canso, Arichat, Port Hawkesbury, Port Hastings, and Souris.

HALIFAX  
— TO —  
JAMAICA.

It is intended to sail the  
**S. S. ALPHA,**

N. HALL, Commander,  
For above Port, calling at  
BERMUDA AND TURKS ISLAND,  
15th every Month.

Halifax and Newfoundland  
**S. S. CO., Ltd.**

It is intended to sail the  
**S. S. HARLAW,**  
J. A. Farquhar, Commander.  
—FOR—

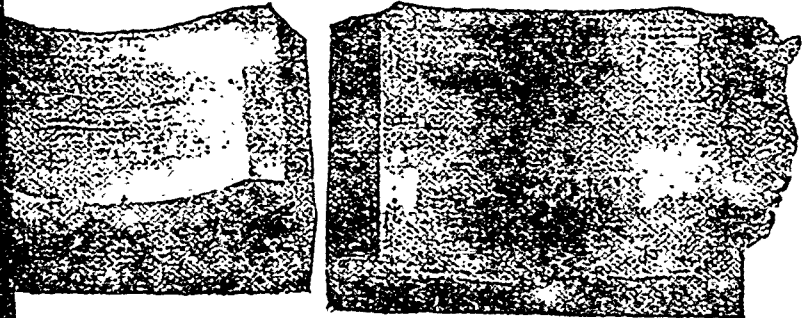
St. Peters, Biddeck, Grand Narrows, North Sydney, Sydney, Ingonish, Neil's Harbor, Aspy Bay, Channel, Codroy, Bay St. George, Bay of Islands, Bonne Bay, about  
JUNE 2nd. JUNE 16th.  
JUNE 30th.  
AND FORTNIGHTLY THEREAFTER.

## Burrell-Johnson Iron Co.,

LIMITED.  
YARMOUTH, N. S.

Agents for MAGNOLIA METAL, the best Anti-Friction Metal made.  
Below we show tests with Copperine.

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MAGNOLIA METAL. COPPERINE.



THE MAGNOLIA ANTI-FRICTION METAL CO., NEW YORK, N. Y., MARCH 5, 1891.  
74 Cortlandt Street, New York, N. Y.  
Gentlemen:—About March 26, 1890, samples of Metal marked: "Spencer's Finest Copperine Babbitt," were submitted to me for test; 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 test, and tested in comparison with Magnolia Metal, upon our new testing machine, built at great expense. This test for temperatures showed Magnolia Metal to have less friction and a temperature of about 100 degrees less. On December 31st this perfected test piece of Copperine was tested again with the result of its fusing with ten minutes run of 1600 lbs. 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 at the end of the hour the metal showed a temperature of about 292 degrees, Fahrenheit. Under separate cover we had you detailed reports of the tests, showing velocity of rubbing surface about 2,000 feet per minute, diameter of shaft 5 inches, and revolutions, about 15,000.  
Yours truly,  
H. G. TORREY.  
NOTE—Mr. Torrey is U. S. Assayer, and has been in U. S. Mint service at New York for 30 years.  
Montreal Office, H. McLAREN & CO., Agents.  
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