

FIRE-BOX BOILER WITH COLLAPSED FLUE TUBE.

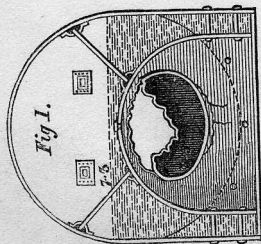


Fig. 2.

23 " 0

0 " 8

*Longitudinal Section*

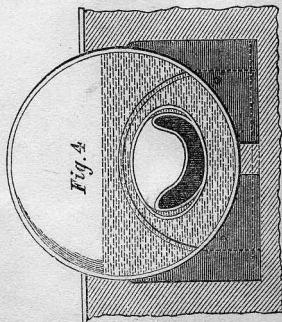


Fig. 4

*Horizontal Section*

Fig. 5

23 " 0

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H 188 A. MOCKOBECKAЯ АКАДЕМИЯ  
RUDIMENTARY TREATISE

ON

STEAM BOILERS;

A05. THEIR N2252

CONSTRUCTION AND PRACTICAL MANAGEMENT.

B08 N2252  
BY ROBERT ARMSTRONG,

(LATE OF MANCHESTER.)

CONSULTING CIVIL ENGINEER.

LONDON:  
JOHN WEALE, 59, HIGH HOLBORN.

1850.

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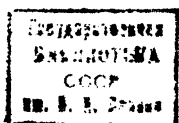
## P R E F A C E.

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IN order to render this book useful to those who employ, or are employed about, Steam Engines, I have included in it various rules and practical data formerly published in my "Essay on the Boilers of Steam Engines," and have endeavoured to embody the necessary information relative to such improvements in principle or construction as have come into practical use since the date of the former publication. This will, therefore, probably supersede the necessity of a new edition of that work.

R. A.

22, Great Winchester Street,  
Old Broad Street, London.  
October, 1850.



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