

## **Specification of Thomas Taylor : preventing smoke in furnaces.**

### **Contributors**

Taylor, Thomas.

### **Publication/Creation**

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A.D. 1870, *17th JANUARY.* N<sup>o</sup> 136.

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S P E C I F I C A T I O N

OF

THOMAS TAYLOR.

PREVENTING SMOKE IN FURNACES.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

25, SOUTHAMPTON BUILDINGS, HOLBORN.





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A.D. 1870, 17th JANUARY. N° 136.

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### Preventing Smoke in Furnaces.

*(This Invention received Provisional Protection only.)*

PROVISIONAL SPECIFICATION left by Thomas Taylor at the Office of the Commissioners of Patents, with his Petition, on the 17th January 1870.

I, THOMAS TAYLOR, of Pilsworth, in the County of Lancaster, Engineer,  
5 do hereby declare the nature of the said Invention for "IMPROVEMENTS  
IN APPARATUS FOR THE PREVENTION OF SMOKE IN STEAM BOILER AND OTHER  
FURNACES," to be as follows:—

My improvements consist in placing at the end of the fire-bars in  
furnaces a box, made of cast iron or other material, the whole width of  
10 the furnace or any suitable portion thereof, containing a door or lid at  
the side next the fire-door, and on the top of the said box and at the  
other end I place a bridge of fire-brick, and also cover the said box on  
the upper side with fire-brick, and at about seven inches from the last-  
named bridge I place another bridge of fire-brick, as ordinarily con-  
15 structed. Between the said two bridges I place a grate through which  
the air passes to the furnace, the amount of which is regulated by a  
handle attached to the before-named door. The air passes into the

*Taylor's Improvements in Apparatus for Preventing Smoke in Furnaces.*

said box from the ash-pit and through the grate situate between the said two bridges, and thereby mixes with the products of combustion in the furnace and prevents any dense or black smoke passing up the chimney.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1870.

A.D. 1870.—N° 136.

Preventing Smoke in Furnaces.

(This invention relates to Provisional Specification only.)

PROVISIONAL SPECIFICATION for Thomas Taylor of the Office of the Commissioners of Patents, with his Petition, on the 17th January 1870.

1870.

I, Thomas Taylor of Thirsk, in the County of Lincoln, Engineer, do hereby declare the nature of the said invention for "Prevention of Smoke in Furnaces" to be as follows:—

My improvements consist in placing at the end of the flue in a furnace a box made of cast iron or other material, the whole width of the furnace or any suitable portion thereof, containing a door or lid at the top next the fire-box and on the top of the said box and at the side end I place a bridge of fire-brick and also cover the said box on the upper side with fire-brick, and at about seven inches from the said side bridge I place another bridge of fire-brick, as ordinarily constructed. Between the said two bridges I place a grate through which the air passes to the furnace, the amount of which is regulated by a damper attached to the below-mentioned door. The air passes into the