

## **Specification of Edward Ettrick : furnaces.**

### **Contributors**

Ettrick, Edward.

### **Publication/Creation**

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A.D. 1861, 26<sup>th</sup> FEBRUARY. N<sup>o</sup> 489.

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SPECIFICATION

OF

EDWARD ETTRICK.

—  
FURNACES.  
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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.

Price 3d.

1861.

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A.D. 1861, 26th FEBRUARY. N° 489.

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### Furnaces.

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*(This Invention received Provisional Protection only.)*

PROVISIONAL SPECIFICATION left by Edward Ettrick at the Office of the Commissioners of Patents, with his Petition, on the 26th February 1861.

I, EDWARD ETRICK, of North Hylton, near Sunderland, in the County of Durham, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN THE CONSTRUCTION OF FURNACES FOR THE PREVENTION OR CONSUMPTION OF SMOKE," to be as follows:—

This Invention consists principally in the use or employment of longitudinal perforated tubes of metal, fire-clay, brick, or other material running parallel with the sides of the furnace in the flame bed, in connection with a hollow perforated bridge running across the same. Air from the ash-pit passes along two or more hollow tubes placed about level with the fire bars (or acting as fire bars) into the hollow perforated bridge, becoming intensely heated on its passage, and thence passing into the longitudinal perforated tubes is distributed through the holes therein and in the hollow bridge into the furnace on all sides in small streams or jets, and mixing with the flame and combustible gases in the furnace effects the consumption or prevention of the smoke therein.

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LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1861.

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A.D. 1801, 20th February, N. 489.

WITNESSES.

(This section is only provisional.)

PROVISIONAL SPECIFICATION, set by Edward French in the Office of the Commissioner of Patents with his Petition on the 20th February 1801.

I, Edward French, of North Hylton, near Sunderland, in the County of Durham, do hereby declare the nature of the said Invention for "Improvement in the Construction of Machines for the Weaving of Cottons or Woollens," to be as follows:—

This Invention consists principally in the use or employment of longitudinal perforated tubes of metal, tin, clay, stoneware, or other material running parallel with the warp of the fabric in the loom, and in connection with a hollow perforated bridge running across the same. At least the subject part of the said tubes or tubes hollow tubes placed above level with the warp for running on the bars) inside hollow perforated bridges, extending laterally beyond the ends of the tubes and being fastened into the longitudinal perforated tubes in such a manner as to rest the tubes thereon and in the holes and in the tubes and to support the tubes in such a manner as to allow the warp and weft threads to pass over the tubes without the obstruction of the threads.

WITNESSES:  
I, the said Commissioner, do hereby certify that the said Invention is such as to entitle the said Inventor to a Patent therefor.  
GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 20th day of February 1801.