

Specification of William Henry Lancaster and James Smith : furnaces, &c.;

Contributors

Lancaster, William Henry.
Smith, James.

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183 Euston Road
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E library@wellcomecollection.org
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A.D. 1855 N° 2257.

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

OF

WILLIAM HENRY LANCASTER
AND
JAMES SMITH.

FURNACES, &c.

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Furnaces, &c.

LETTERS PATENT to William Henry Lancaster, residing at No. 24, Hatfield Street, in the Township of West Derby, and James Smith, of Sefton Street, Toxteth Park, both in the Borough of Liverpool and County of Lancaster, for the Invention of "**CONSUMING SMOKE, AND FOR GENERATING AND DIFFUSING HEAT IN FURNACES, AND IN FURNACE OR OTHER FLUES.**"

Sealed the 12th January 1856, and dated the 9th October 1855.

(Void by reason of the Patentee having neglected to file a Specification in pursuance of the conditions of the Letters Patent.)

PROVISIONAL SPECIFICATION left by the said William Henry Lancaster and James Smith at the Office of the Commissioners of Patents, with their Petition, on the 9th October 1855.

We, **WILLIAM HENRY LANCASTER**, residing at No. 24, Hatfield Street, in
5 the Township of West Derby, and **JAMES SMITH**, of Sefton Street, Toxteth Park, both in the Borough of Liverpool & County of Lancaster, do hereby declare the nature of the said Invention of "**CONSUMING SMOKE, AND FOR GENERATING AND DIFFUSING HEAT IN FURNACES, AND IN FURNACE OR OTHER FLUES,**" to be as follows:—

10 This Invention consists in employing hydrogen gas in combination with atmospheric air for the purposes of consuming smoke, &c.; which may be effected by introducing a number of jets of hydrogen gas into flues and

Lancaster & Smith's Smoke-consuming Apparatus.

furnaces by means of pipes. Each jet of hydrogen being provided with a supply of atmospheric air, the gas on being ignited burns intensely, and not only consumes more effectually than heretofore the smoke from the furnace fire, however dense, but at the same time the heat is greater, and more generally diffused in the flues of the furnace than heretofore, thereby dispensing with the necessity for an intense heat in the furnace, and consequently effecting great economy in fuel. 5

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1856.