Specification of George Duncan and William John Jellicorse : smoke-consuming furnace.

Contributors

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A.D. 1857 . . . . . N° 2544.

SPECIFICATION

OF

GEORGE DUNCAN
AND
WILLIAM JOHN JELLICORSE.

SMOKE-CONSUMING FURNACE.

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 8d.

1858.

A.D. 1857 . . . . . N° 2544.

Smoke-consuming Furnace.

(This Invention did not proceed to the Great Seal.)

PROVISIONAL SPECIFICATION left by the said George Duncan and William John Jellicorse at the Office of the Commissioners of Patents, with their Petition, on the 5th October 1857.

We, GEORGE DUNCAN and WILLIAM JOHN JELLICORSE, trading as Co-partners, Printing Machine Manufacturers and Engineers, of Lichfield Street, Birmingham, in the County of Warwick, do hereby declare the nature of our said Invention for "AN IMPROVED SMOKE-CONSUMING FURNACE," to be as follows (that is to say):—

The peculiarities of our Invention will be understood by the following description:—At the back of the fire we construct a bridge, over which the flame and smoke passes. Behind the bridge we form a somewhat large air chamber and dust receiver, from which the smoke and flame passes to a flue; and which flue, a little beyond its mouth, we divide into two, the one descending, and the other ascending, the descending one being made to take a circuitous course before again emerging into the ascending flue, and at this point the smoke is consumed, for, inasmuch as the flame and heated air pass away through the upper flue, the smoke is impelled forward through the lower one, and coming in contact in a side or opposite direction with the flame complete combustion is there produced; so that after the necessary heat is got up the application of additional coal or act of raking the fire makes not the slightest difference, as the whole of the smoke that passes over the bridge is consumed at the junction of the flues, rendering high stacks in many instances entirely unnecessary. We sometimes use a valve or damper for regulating the amount of heat that may be required.

LONDON:
Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1858.