Specification of Edward Vincent Gardner: furnaces, &c.;

Contributors

Gardner, Edward Vincent.

Publication/Creation

London: Great Seal Patent Office, 1855 (London: George E. Eyre and William Spottiswoode)

Persistent URL

https://wellcomecollection.org/works/b4sstbtv

License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.





A.D. 1855 Nº 605.

SPECIFICATION

OF

BENJAMIN COOK.

FURNACES, &c.

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, HOLDORN.

1855





A.D. 1855 Nº 605.

Furnaces, &c.

(This Invention received Provisional Protection, but notice to proceed with the application for Letters Patent was not given within the time prescribed by the Act.)

PROVISIONAL SPECIFICATION left by Benjamin Cook at the Office of the Commissioners of Patents, with his Petition, on the 19th March 1855.

I, Benjamin Cook, of Chester Street, Kennington, in the County of Surrey,
5 Furnace Builder, do hereby declare the nature of the said Invention for
"Improvements in Machinery or Apparatus for Consuming Smoke" to be as
follows:—

Instead of the various modes of consuming or preventing the escape of smoke from chimneys, &c. hitherto employed, I propose to affix to the front 10 or opening of the furnace a framing having two or even more doors. One of these doors, the lowermost, will be the usual door opening for the purpose of feeding the furnace; and the other, or uppermost door, will be for the admission or production of highly rarified and subdivided air. I also propose placing at the feeding portion of the furnace opening, and (as it were) under 15 the floor thereof, a dead plate (which plate will be cast or made hollow); from this plate, or the floor of the feeding part of the furnace, the furnace bars will rise in an incline upwards to the middle of the furnace bridge; the furnace bars may be made hollow or solid. I expect to obtain air at the connection of the bars and the bridge, which air will proceed from the hollow 20 of the dead plate through the ash-pit between or through the furnace bars.

Cook's Improvements in Machinery or Apparatus for Consuming Smoke.

The furnace doors I propose to divide (the upper from the lower) by an horizontal dead plate, which shall shut off the communication between the lower or feeding and the upper portion of the front part of the furnace. I propose dividing the upper part between the dead plate and the roof of the furnace (or the boiler, as the case may be,) into chambers or departments; 5 these chambers will be perforated at their sides, as also will the dead plate, just mentioned, and thus I propose obtaining subdivided and highly rarified air from above, and so prevent smoke ussuing from chimneys, stalks, or other outlets, except at the first lighting the fires.

LONDON:

Printed by George Edward Eyre and William Spottiswoode, Printers to the Queen's most Excellent Majesty. 1855.

I somethed odd dynamic to member the dan edd dynamic otoly has a sale in