

Specification of Joseph Holder : consuming noxious exhalations from ovens.

Contributors

Holder, Joseph.

Publication/Creation

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A.D. 1860, 24th APRIL. N° 1016.

SPECIFICATION

OF

JOSEPH HOLDER.

CONSUMING NOXIOUS EXHALATIONS FROM
OVENS.

LONDON:

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A.D. 1860, 24th APRIL. N^o 1016.

Consuming Noxious Exhalations from Ovens.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Joseph Holder at the Office of the Commissioners of Patents, with his Petition, on the 24th April 1860.

I, JOSEPH HOLDER, Manufacturing Chemist, of Scabes Castle, Brighton, do
5 hereby declare the nature of the said Invention for "**IMPROVEMENTS IN APPARATUS FOR CONSUMING ALL NOXIOUS EXHALATIONS FROM DRYING OVENS USED FOR CHEMICAL AND CHEMICAL MANURE WORKS, AND ARISING FROM SUCH WORKS, AND FROM MIXING DECAYED SUBSTANCES IN STRONG ACIDS,**" to be as follows:—

On one side of the furnace, to economize fuel, are formed a series of air
10 chambers to prevent a large accumulation of explosive gases, and leading from each other to the retort, which is placed with an elbow communicating with the air chambers just inside the furnace door; the fumes, steam, and smoke are drawn by the draught of the shaft to pass through the chambers, where being gradually heated, condensed, and rarefied, they pass along the retort,
15 which is laid on the fire bars or other convenient part of the furnace, and is drawn through another air chamber at the end of the furnace (luted with fire clay) into the shaft, and in a few minutes after the fire is lighted, and before any effluvia arises, the air chambers are heated; the retort becomes red hot, and the smoke, steam, and gasses are passed rapidly through the red-hot retort
20 and completely destroyed, so that the top of the shaft is free from offensive smell, while by the combustion of the smoke in its passage through the retort, the heat is increased in the furnace, with a great saving of fuel, and scarcely any smoke perceptible.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1860.

