

Specification of Henry Matthews : removing and consuming sewer gas.

Contributors

Matthews, Henry.

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A.D. 1874, 10th NOVEMBER. N^o 3868.

SPECIFICATION

OF

HENRY MATTHEWS.

REMOVING AND CONSUMING SEWER GAS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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A.D. 1874, 10th NOVEMBER. N° 3868.

Removing and Consuming Sewer Gas.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Henry Matthews at the Office of the Commissioners of Patents, with his Petition, on the 10th November 1874.

I, HENRY MATTHEWS, of Rowallan Villa, Cotham Brow, Bristol, in the County of Gloucester, do hereby declare the nature of the said Invention for "IMPROVED ARRANGEMENTS AND APPARATUS FOR REMOVING GASES FROM SEWERS, AND EFFECTING THE CONSUMPTION THEREOF," to be as follows:—

This Invention has for its object improved arrangements and apparatus for removing gases from sewers, and effecting the consumption thereof, and is designed to prevent the introduction of deleterious gases into dwellings and other buildings by reducing the pressure in the sewers, and burning the gas removed therefrom so as to render the same innocuous. To this end I establish communication between the interior of the sewer and suitable orifices or outlets arranged in proximity to the flames of gas lamps or to other flames, whereby the escape of the sewage gas is promoted and its consumption is effected as it issues from the orifices or outlets.

Matthews' Apparatus for Removing and Consuming Sewer Gas.

In carrying out my Invention I insert in or attach to the crown of the sewer a conical pipe, from the upper and narrower part of which a connecting pipe proceeds to the orifice or outlet near the burner.

When utilizing public lamps for effecting the consumption of the gas from the sewer, the lamp post, being hollow, may be made to serve as a part of the connecting pipe from the sewer to the burner.

The orifice or outlet may be arranged within the ring of an Argand burner, or somewhat similar burner, so as to cause the sewer gas to pass into the flame; or the pipe from the sewer may terminate in the form of a ring or pipe encircling the ordinary gas pipe, and provided with orifices arranged to discharge the sewer gas so that it shall come in contact with the flame.

The effect of the flame in juxtaposition to the orifices or outlet from the sewer will be to induce a constant current of gas from the sewer towards the burner.

I provide a tap or valve in an accessible position near to each burner, so that when or before the flame is extinguished the outlet or orifices from the sewer may be closed.

It will be evident that the application is not restricted to ordinary street lamps.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOOD, Printers to the Queen's most Excellent Majesty. 1875.



