Specification of Samuel Sutcliffe and James Stocks: smoke-consuming apparatus.

Contributors

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A.D. 1857 N° 643.

SPECIFICATION

OF

SAMUEL SUTCLIFFE AND JAMES STOCKS.

SMOKE-CONSUMING APPARATUS.

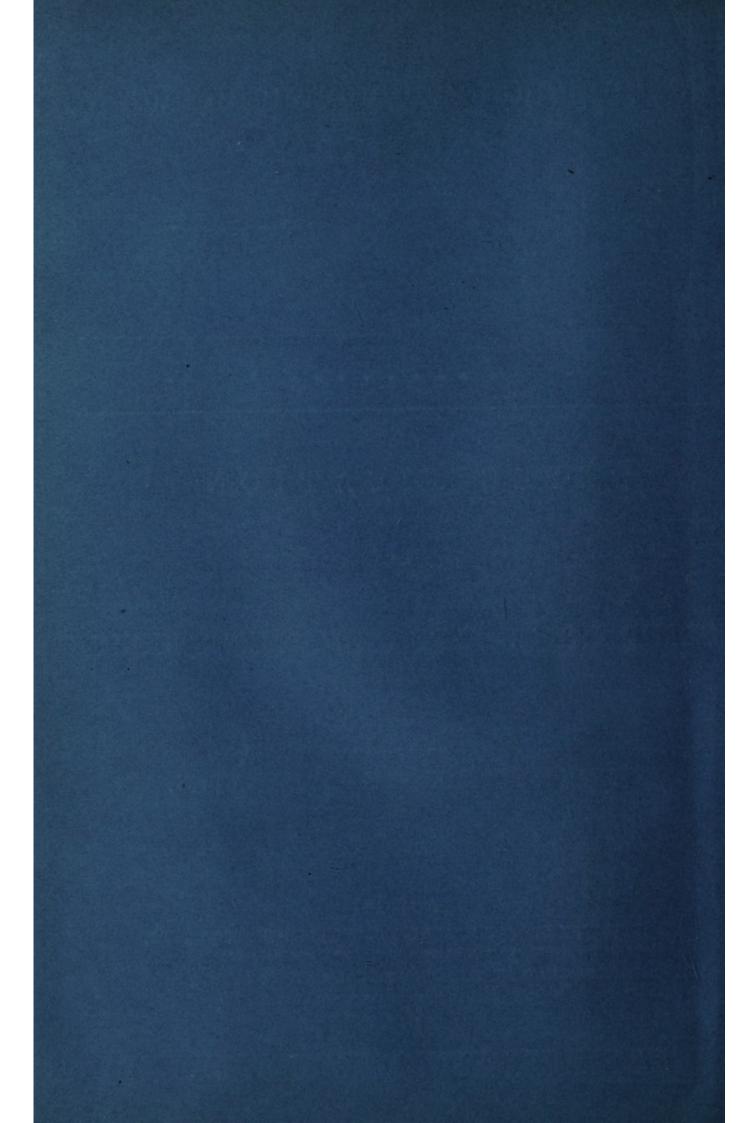
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A.D. 1857 Nº 643.

Smoke-consuming Apparatus.

(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 Samuel Sutcliffe and James Stocks at the Office of the Commissioners of Patents, with their Petition, on the 5th March 1857.

We, Samuel Sutcliffe, of Manningham, near Bradford, in the County of York, Cotton Spinner, and James Stocks, of the same Place, Engine Tenter, do hereby declare the nature of the said Invention for "Improvements in Means or Apparatus in Connexion with Steam Boiler and other Furnaces to facilitate the Consumption of Smoke therein," to be as follows:—

The improvements relate to means for conducting air to the fire; also to 10 means for heating such air in its passage thereto. The air to support combustion wholly or in part passes through a pipe or pipes enclosed in a steam chamber or chambers, supplied by steam from the boiler in such manner that the air passing through such pipe or pipes may become highly heated before it reaches the fire. The pipe or pipes thence pass to the dead plate of the 15 furnace, which, in carrying out our improvements, is formed hollow, and with either a continuous channel or a series of openings at that edge which is near the furnace bars, so that the heated air may thence flow direct on to the fire from the fuel, or on to and amongst the fuel. A valve or other cover may be employed to close or partially close the openings in the dead plate 20 at certain times to prevent the coal or other matter passing in to close them up.