

Specification of John Kirkham : consuming smoke in furnaces.

Contributors

Kirkham, John.

Publication/Creation

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A.D. 1854 N° 900.

S P E C I F I C A T I O N

OF

JOHN KIRKHAM.

—
CONSUMING SMOKE IN FURNACES.
—

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

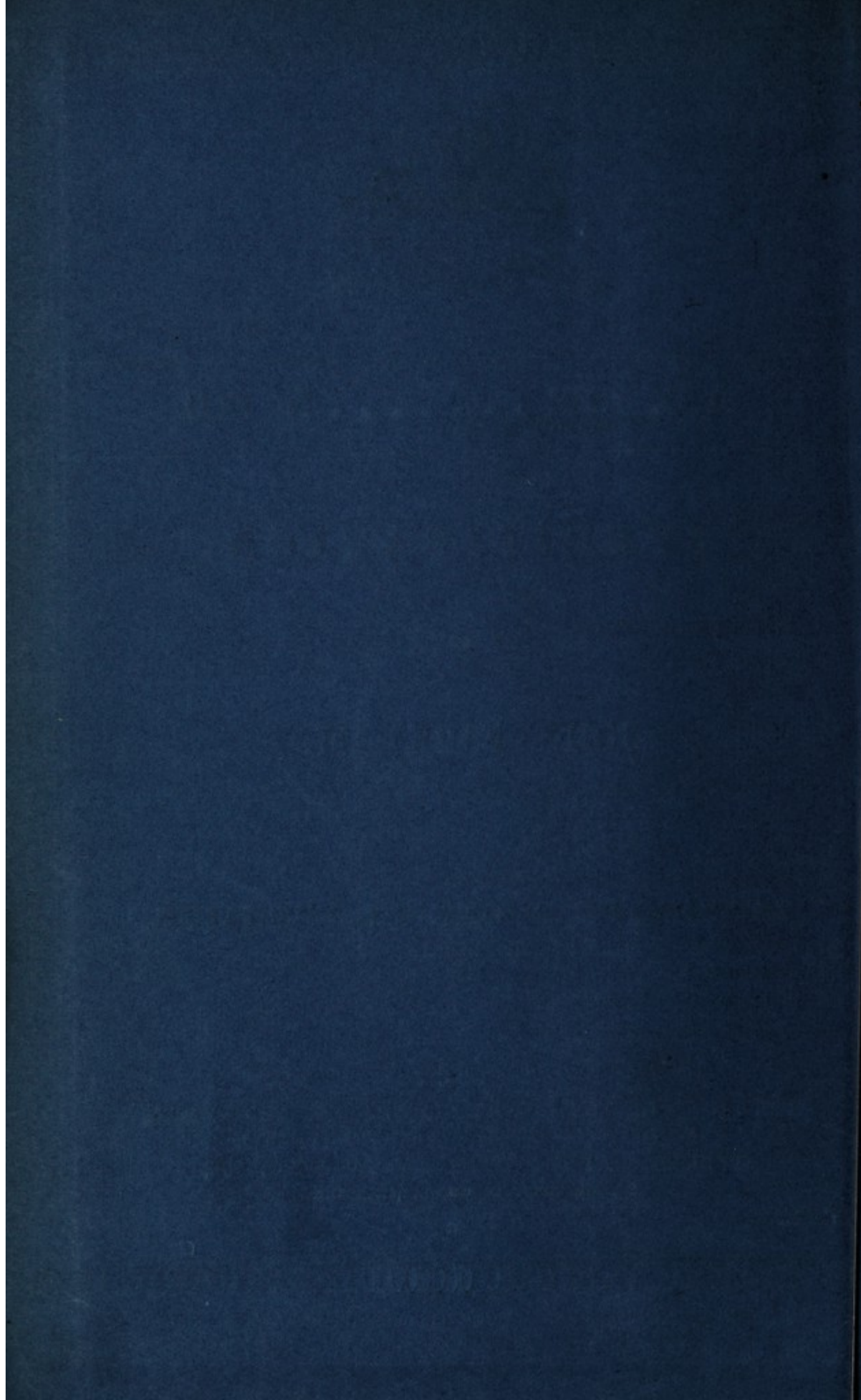
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PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

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1854.





A.D. 1854 N° 900.

Consuming Smoke in Furnaces.

(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 John Kirkham at the Office of the Commissioners of Patents, with his Petition, on the 19th April 1854.

I, JOHN KIRKHAM, of Tonbridge Place, in the County of Middlesex, Civil
5 Engineer, do hereby declare the nature of the said Invention for “**IMPROVED
MEANS OF CONSUMING SMOKE IN FURNACES**” to be as follows:—

The object of my Invention is to consume the smoke given off during the
combustion in furnaces of bituminous matters, such as coal, coal tar, pitch, and
other analogous substances, either solid or liquid. Some of these matters are
10 so rich in carbon that the smoke evolved therefrom cannot be consumed unless
an additional quantity of atmospheric air is supplied thereto during the process
of combustion. I have found that the action of air on the smoke is much
more energetic when heated than when supplied in a cold state; I therefore
propose to furnish a supply of air heated by means of pipes, or in a chamber or
15 chambers contiguous to or forming part of the furnace or flues. Atmospheric
air being made to pass in or through these pipes or chambers will be highly
heated, and when allowed to come in contact with the unconsumed gases and
smoke evolved from the fuel in the furnace, will consume the said gases, thereby
economising fuel, increasing the heat, and preventing the exit of smoke from
20 the chimney.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1854.

The following are the names of the children of the late John Smith, who died on the 10th day of July 1852, and the names of the children of the late John Smith, who died on the 10th day of July 1852.

John Smith, who died on the 10th day of July 1852, had the following children: John Smith, who died on the 10th day of July 1852, had the following children:

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