

Specification of Robert Howden : portable furnace for heating ovens.

Contributors

Howden, Robert.

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A.D. 1798 N° 2214.

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

OF

ROBERT HOWDEN.

—
PORTABLE FURNACE FOR HEATING OVENS.
—

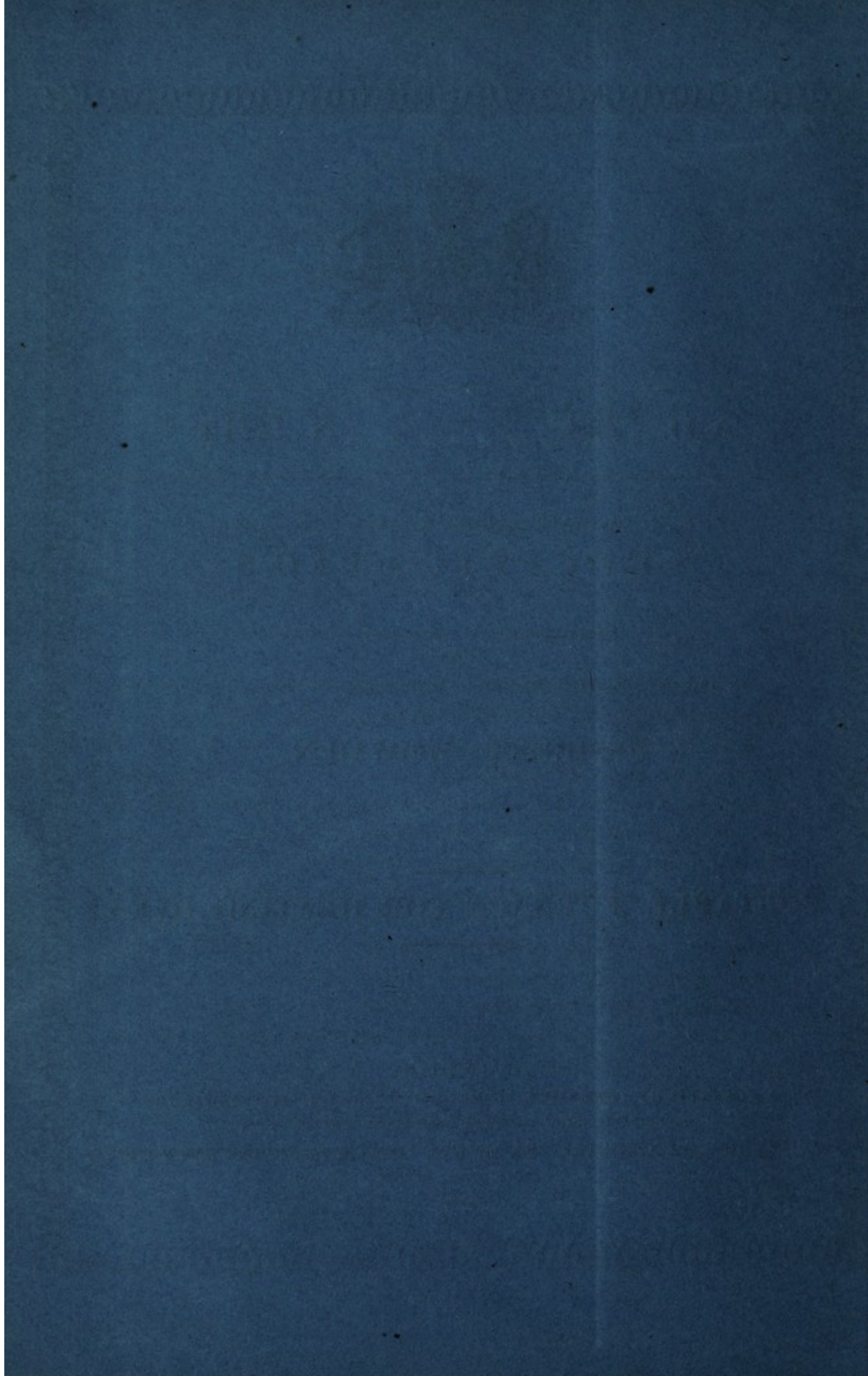
LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE QUEEN'S PRINTING OFFICE, EAST HARDING STREET,
NEAR FLEET STREET.

Price 6d.

1854.





A.D. 1798 N° 2214.

Portable Furnace for Heating Ovens.

HOWDEN'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, ROBERT HOWDEN, of Hoxton, in the County of Middlesex, Baker, send greeting.

WHEREAS His most Excellent Majesty King George the Third did, by his Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Twentieth day of February, in the thirty-eighth year of His reign, give and grant unto me, the said Robert Howden, His especial licence that I, the said Robert Howden, during the term of years therein mentioned, should and lawfully might use, exercise, and vend, within England, Wales, and the Town of Berwick upon Tweed, my Invention of "**A PORTABLE AND MOVING**
10 FURNACE FOR THE PURPOSE OF HEATING OF OVENS OF EVERY DESCRIPTION, WHEREBY MUCH FUEL WILL BE SAVED AND THE OVEN RENDERED MORE SAFE AND COMMODIOUS;" in which said Letters Patent there is contained a proviso obliging me, the said Robert Howden, by an instrument in writing under my hand and seal, to cause a particular description of the nature of my said Invention, and in what manner
15 the same is to be performed, to be inrolled in His Majesty's High Court of Chancery within one calendar month after the date of the said recited Letters Patent, as in and by the same (relation being thereunto had) may more fully and at large appear.

Howden's Portable Furnace for Heating Ovens, &c.

NOW KNOW YE, that in compliance with the said proviso, I, the said Robert Howden, do hereby declare that my said Invention is described in the plan and description thereof hereunto annexed.

In witness whereof, I, the said Robert Howden, have hereunto set my hand and seal, this Twentieth day of March, in the year of our Lord 5 One thousand seven hundred and ninety-eight.

ROBERT HOWDEN. (L.S.)

AND BE IT REMEMBERED, that on the same Twentieth day of March, in the year above mentioned, the aforesaid Robert Howden came before our Lord the King in his Chancery, and acknowledged the Specification aforesaid, 10 and all and everything therein contained, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute in that case made and provided.

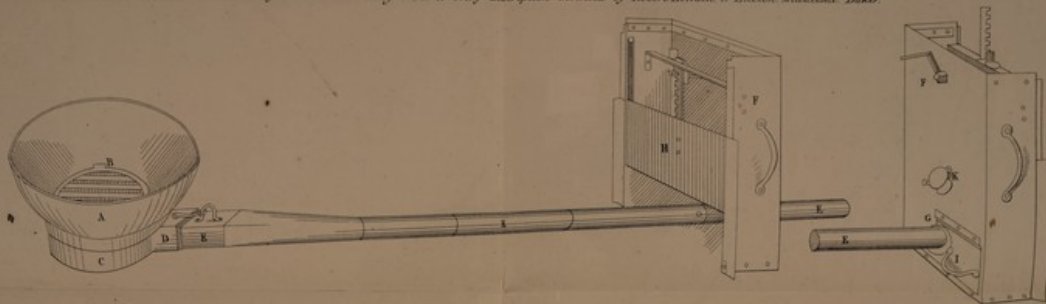
Inrolled the same Twentieth day of March, in the year above written.

LONDON :

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

A. ПОРНАМ.

A portable or moving Furnace for heating ovens of every description invented by Robert Howden, of Hoxton, Middlesex, Baker



Description and Nature of the Invention.

- A. The Furnace wherein (B) is a grate or Bars at the bottom (made either united therewith or separate) on which fuel is placed.
 - C. The Air Box (made with or without flutes) open at the furnace rate) and the Aperture in the side at D.
 - E. The Tube or Pipe which passes through the door at the aperture G, (or through any aperture that may be made in any other part of the Oven) enters the Air Box at the aperture D.
 - F. The Temporary Door fitted to enclose the Oven mouth, and the Flue or Chimney.
 - H. The Regulator raised or lowered at pleasure.
 - I. The Slide which closes on the Tube or Pipe.
 - K. The Peephole (with a sliding cover) through which the operation in the Oven is viewed.
- The Furnace, Air Box, Tube or Pipe and Temporary Door, may be constructed of Iron or any other Metal, either simple or compounded, wrought or cast, or of any materials whatever, simple or compounded, which shall be capable to contain and sustain fire, and all the apparatus may be made or moulded in any form or shape whatever.
- The Furnace and Air Box may be constructed either conjunctively or disjointively.

Performance.

Furnace contains the fire, (made of Coal or any other fuel) and is movable to any part of the Oven at pleasure by means of the Air Box in which it rests. Air Box receives the Air from the Tube or Pipe, and communicates it (up through the grate, or between the Bars) to the fuel, whereby the fire is contained with proper effect.

Tube or Pipe conveys Air to the Air Box under the Furnace, in any part of the Oven, to which it is readily directed.

Temporary Door prevents any air from entering the Oven but through the Tube or Pipe, or any vapour arising therefrom but by the Flue or Chimney, whereby the Draft fully effect the operation. By lowering the Regulator the bottom of the Oven obtains a due proportion of heat. The Slide readily admits the Tube or Pipe to take any necessary direction.

Two or more Furnaces, with proper apparatus, may be set and used in one Oven, at one and the same time if necessary.

