

Specification of John Wilkinson : boilers, salt pans, &c.;

Contributors

Wilkinson, John.

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A.D. 1799 N° 2316.

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

OF

JOHN WILKINSON.

BOILERS, SALT PANS, &c.

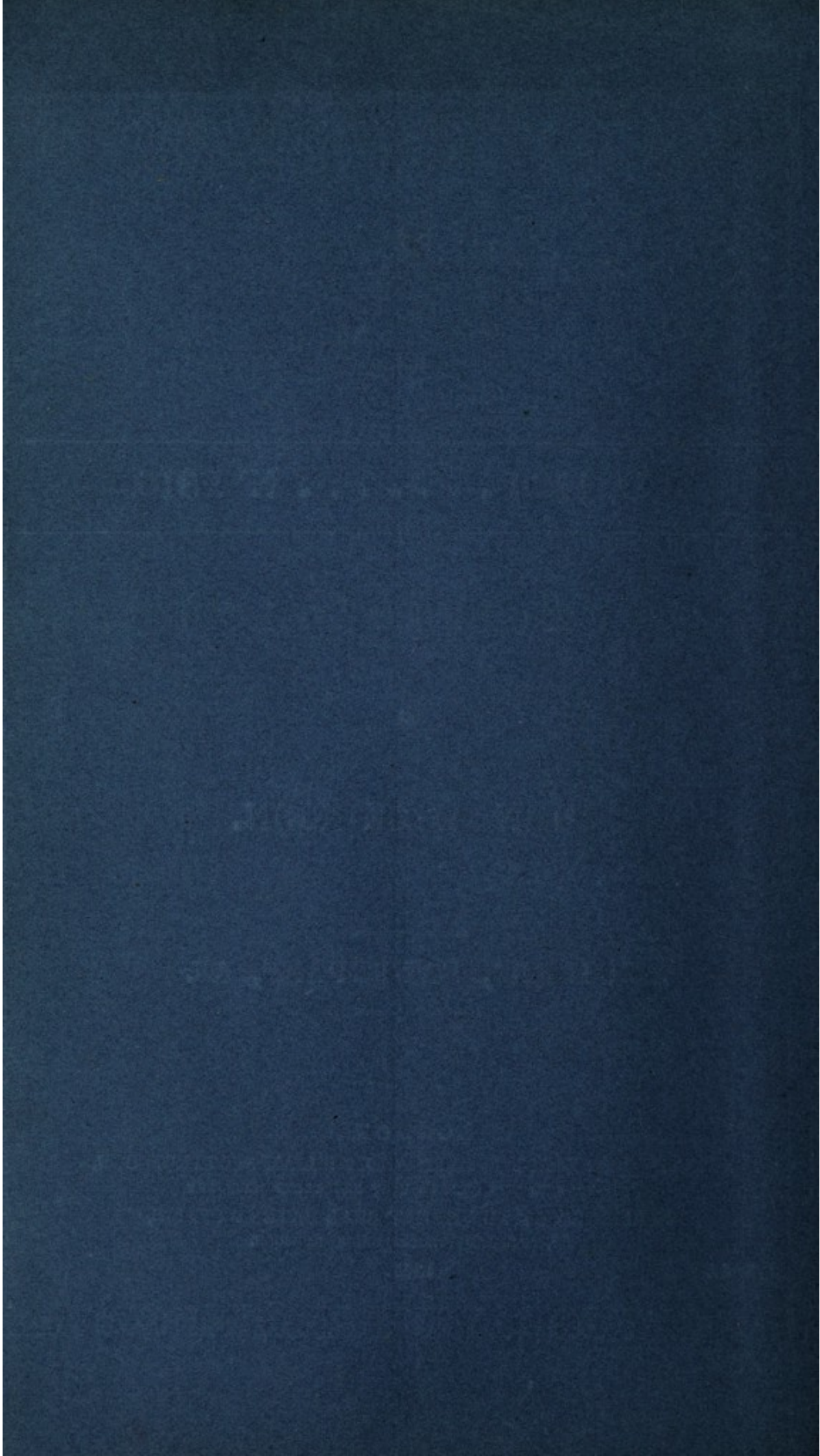
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A.D. 1799 N° 2316.

Boilers, Salt Pans, &c.

WILKINSON'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOHN WILKINSON, of Castle Head, in the County of Lancaster, Iron Master, send greeting.

WHEREAS His most Excellent Majesty King George the Third, did, by
5 His Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Twenty-eighth day of May, in the thirty-ninth year of His reign, give and grant unto me, the said John Wilkinson, His especial licence, that I, the said John Wilkinson, during the term of years therein mentioned, should and lawfully might use, exercise, and vend, within England, Wales,
10 and the Town of Berwick-upon-Tweed, my Invention of "AN IMPROVEMENT IN BOILERS, APPLICABLE TO SALT PANS, OR ANY OTHER PURPOSE WHERE A SAVING OF FUEL IS AN OBJECT;" in which said Letters Patent there is contained a proviso, obliging me, the said John Wilkinson, by an instrument in writing under my hand and seal, to cause a particular description of the nature of my said
15 Invention, and in what manner 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.

Wilkinson's Improvement in Boilers, applicable to Salt Pans, &c.

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

In witness whereof, I, the said John Wilkinson, have hereunto set my hand and seal, this Thirty-first day of May, in the year of our Lord 5 One thousand seven hundred and ninety-nine.

JOHN WILKINSON. (L.S.)

AND BE IT REMEMBERED, that on the same Thirty-first day of May, in the year above mentioned, the aforesaid John Wilkinson 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.

JOHN SIMEON.

Inrolled the same Twenty-third day of May, in the year above written.

LONDON :

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Printers to the Queen's most Excellent Majesty. 1855.

The Boilers instead of being made either Round or of a short oblong square with flues round the outside and the fire applied as in the common method: are by me made of great length, without any flues round the outside and the fire more uniformly applied as shown by the annexed Drawings. Fig 1. is a horizontal Section and Fig 2. a vertical Section of a Boiler 60 feet in length and 6 feet in breadth. The heat from the fire passing uniformly along the bottom rises up at one end returning by Flues through the water to the other end opens into the Chimney which carries off the smoke. Fig 3. is a horizontal section of another boiler 60 Feet by 12 feet with two partition walls underneath dividing its bottom longitudinally into three spaces. The heat from the fires which are placed in the two water spaces passing along the bottom to one end returns back through the middle space under the bottom to the other end opening into the Chimney as before. The advantage in these boilers consists in being of greater-lengths than those made in the common way and being without flues on the outside admits of shallower depths. The fire being applied only to the bottom in the one case and in the other with the return through the water which admits the Boiler to be made of half the breadth. The length and breadth of these boilers and number of fire places may be varied at pleasure.



FIG. 2.

Reference Fig. 1.

- a. The dotted lines show the situation of the Fire Grates.
- b. The flues which convey the heat through the water.
- c. The Chimney.
- d. are Divisions into which liquids are conveyed to supply the Boiler and to defend these parts from the fire.
- e. The cavity of the Boiler.



FIG. 1.

Fig. 2.

- a. The dotted parts show the situation of the Fire Grates.
- b. The flues which convey the heat through the water.
- c. The Chimney.
- d. are Divisions into which liquids are conveyed to supply the Boiler and to defend these parts from the fire.
- e. The cavity of the Boiler.



FIG. 5.

Fig. 3.

- a. The fire places.
- b. The flue under the Boiler that receives the fire from the Grates and goes to the Chimney c. admitting the depth of water in the boiler as shallow as one inch or less.

