

## **Specification of John Slater : kitchen ranges.**

### **Contributors**

Slater, John.

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A.D. 1821 . . . . . N° 4579.

SPECIFICATION

OF

JOHN SLATER.

KITCHEN RANGES.

LONDON:

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Price 7d.

1827.









A.D. 1821 . . . . . N° 4579.

### Kitchen Ranges.

#### SLATER'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOHN SLATER, of Birmingham, in the County of Warwick, Manufacturer, send greeting.

WHEREAS His most Excellent Majesty King George the Fourth did, by  
5 His Letters Patent under the Great Seal of that part of the United Kingdom of Great Britain and Ireland called England, bearing date at Westminster, the Fourth day of August, in the second year of His reign, give and grant unto me, the said John Slater, my exors, admors, and assigns, His especial licence, full power, sole privilege and authority, that I, the said John Slater,  
10 my exors, admors, and assigns, during the term of years therein mentioned, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick-upon-Tweed, my Invention of "IMPROVEMENTS IN MAKING A KITCHEN RANGE AND APPARATUS FOR COOKING AND OTHER PURPOSES;" in which said Letters Patent there is contained a proviso that if I, the said  
15 John Slater, shall not particularly describe and ascertain the nature of my said Invention, and in what manner the same is to be performed, by an instrument in writing under my hand and seal, and cause the same to be inrolled in His Majesty's High Court of Chancery within six calendar months next and immediately after the date of the said Letters Patent, that then the said Letters  
20 Patent, and all liberties and advantages whatsoever thereby granted, shall



*Slater's Impts. in Kitchen Ranges and Apparatus for Cooking and other Purposes.*

utterly cease, determine, and become void, as in and by the same, relation being thereunto had, will more fully and at large appear.

**NOW KNOW YE**, that in compliance with the said proviso, I, the said John Slater, do hereby declare that the nature of my said Invention, and the manner in which the same is to be performed, are particularly described and ascertained by the Drawing hereunto annexed, and following description thereof (that is to say):—

The nature of my Invention and improvements in making a kitchen range and apparatus for cooking and other purposes consists in making an apparatus with wrought or cast iron bars, and cast iron sides, with a moveable keeper and spit racks in front for roasting. At the back or behind I fix what I call a hot water boiler, forming in the front part an open fire-place of a large or small size, and to be made with or without the keeper and spit racks, as may be most convenient. The hot water boiler is situated at the back of the fire place, and is made of wrought or cast iron and copper tinned, but to be made with or without copper, as most convenient. In front there is a hole or opening of a proper size for a chimney flue into the inside of the hot water boiler, and to the hole or opening is fixed, with bolts and screws or rivets and inside pipe and flange or chimney flue, which pipe or flue is continued up the inside to the top of the hot water boiler, and over it is a lid or cover for admitting a free passage of fire or heat through the hot water boiler, or to exclude it therefrom, as it may be required; and in one side or end of the hot water boiler a man-hole or opening is made of six inches diameter, or of a larger or smaller size, as most convenient, and round the man-hole or opening there is a projecting ring or a bearing formed, of one inch thick and two inches broad, but to be made thicker or thinner, broader or narrower, as most convenient, for keeping and maintaining at a proper and convenient distance the hot water boiler from what I call a steam and water reservoir, and for bolting and screwing or joining together at and all round the man-hole or opening of the hot water boiler with the steam and water reservoir, and for making or forming an open communication with both of them, and other purposes; and at the end or side near to the top of the hot water boiler are two holes or pipes projecting inside for the purposes of receiving steam pipes of two inches diameter, or of a smaller or larger size, as most convenient. One of the pipes with a valve or stopper is for taking off and regulating the waste steam; the other pipe with a cock or stopper being for conveying the steam from the hot water boiler to heat a vapour or a hot water bath, and for warming hot dressers, hot closets, rooms, and apartments, and for other purposes and conveniences; and the hot water



*Slater's Impts. in Kitchen Ranges and Apparatus for Cooking and other Purposes.*

boiler is to be fitted up for other purposes and conveniences, with one hole or pipe at the top projecting inside for the purpose of receiving into it an upright waste steam pipe with a valve or stopper; and in the bottom of the hot water boiler is fixed with screws or rivets an upright inside steam pipe with an horizontal or square elbow turn at the bottom, which elbow is to be united or joined together with a short pipe and cock for the purpose of conveying or bringing down the steam through the pipe inside the hot water boiler into what I call a steam receiver and condenser; and which steam receiver or condenser is fixed underneath the steam and water reservoir, and is made either of cast or wrought iron or other metal in the form of an **L** square case, without a lid or cover, and in the inside is made or fixed a box complete, of a smaller size than the outward case. The outward case is to receive cold water, and the inward box the steam from the inside of the hot water boiler, which is more fully explained by the Drawing herewith; and at one side or end of the kitchen range fire-place I fix with bolts, screws, or fastenings a separate fire-place with a stew hearth and baking oven or roaster eighteen inches wide in front, the fire-place and stew hearth corresponding in front with the size of the baking oven or roaster, but they are to be made larger or smaller, as most convenient; and two or more sets of the fire-places, stew hearths, baking ovens, or roasters are to be made and fixed to act with the kitchen range and apparatus if more convenient. The stew hearth and fire-place I make of cast iron or cast iron and fire bricks; the top or upper part consists of an outward square frame, or of any other form or forms, as most convenient, having a sunk groove or bearing inside to support and contain a flat plate or three flat plates inside, the middle or centre one having a hole or opening to admit or receive a round or other formed lid or cover of nine inches diameter, or a larger or smaller size, as may be most convenient, so as to form a flat surface over the stew hearth fire-place; and the baking oven or roaster I make of wrought or cast iron with flues or openings all round, and over the top is the chimney, with a valve or damper to regulate the fire. The bottom or under part of the baking oven or roaster is made of cast iron, fire-brick, or stone, which I call a fire repeller and hot-air flue, having as large an opening into the flue as the fire repeller will permit of. The said opening or flue is twenty inches long inside, and is continued across and under the baking oven or roaster, but to be made longer or shorter, as most convenient; and at or near to the further end of the hot-air flue there are made one or more small holes or openings into the inside of the baking oven or roaster, and in front of the same is a valve or stopper, which forms a covering over the entrance of the hot-air flue in the fire repeller, and is for the pur-



*Slater's Impts. in Kitchen Ranges and Apparatus for Cooking and other Purposes.*

poses of admitting hot air into the baking oven or roaster, or to exclude it therefrom ; and at the top or upper part of the baking oven or roaster is fixed what I call a hot-air escape pipe and valve, for the purpose of giving a discharge to the hot air which has passed through the fire repeller, hot-air flue, and the baking oven or roaster, or for keeping or retaining in the same. But to explain 5 more fully the baking oven or roaster, the baking oven acts for roasting at the time the valves, pipes, and flues are open, and a free current of hot air is permitted to enter and pass through them, and the reverse when the valves, pipes, and flues are closed and prevented from acting, it then becomes a baking oven ; and the said baking oven or roaster is fixed into stands upon or against 10 the top or back part of the stew hearth, and is acted upon by the stew hearth fire ; and at the other side or at both the end and back parts of the kitchen range fire-place I fix with bolts, screws, or fastenings what I call a steam and water reservoir, which is made of copper tinned, or to be made of any other metal or metals, as most convenient, of a square form, twelve inches deep, 15 eighteen inches broad in front, and twenty inches long, but to be made of any other form or forms, deeper or shallower, broader or narrower, and longer or shorter, as most convenient. The top or upper part is made with what I call a top frame, which is divided into four separate compartments of a square or oval form, but to be made with more or a less number of separate compartments, 20 and of any other form or forms, as is most convenient. The top frame with the separate compartments, are for holding or containing cooking kettles, which are made of tin, tin plates, copper tinned, cast or wrought iron tinned, or without tinning, and of such size or sizes, form or forms as most convenient to fit into the top frame compartments and the steam and water reservoir ; all 25 or the whole of the kettles are made with holes, pipes, or apertures at or near to the top or upper parts for the purpose of admitting steam into the inside for cooking, their outsides at the time being surrounded with the steam in the steam and water reservoir ; and on or against the front of the steam and water reservoir I fix with screws, rivets, or fastenings an outward lip or fountain, so 30 as to communicate with the inside of the steam and water reservoir, and which lip or fountain is so fixed as to act as a guard against having over much water, and for receiving and keeping a regular supply ; and under or near to the lip or fountain is fixed a cock for drawing off hot water, and in one side of the steam and water reservoir a man-hole or opening is made, of a size correspond- 35 ing to the one in the hot water boiler, at which man-hole or opening both the hot water boiler and the steam and water reservoir are joined together with bolts, screws, and fastenings, and inside the steam and water reservoir a



*Slater's Impts. in Kitchen Ranges and Apparatus for Cooking and other Purposes.*

descending pipe or flue is made or fixed for warming a hot closet underneath, of an ordinary make, and under it a receiving pan is placed to collect condensed steam water, and to be made with or without the descending pipe and hot closet, as most convenient. The Drawing herewith is made for better  
 5 elucidating and explaining the kitchen range, apparatus, and compartments.

In witness whereof, I, the said John Slater, have hereunto set my hand and seal, this 22d day of January, in the year of our Lord One thousand eight hundred and twenty-two.

JOHN (L.S.) SLATER.

10 **AND BE IT REMEMBERED**, that on the Twenty-second day of January, in the year of our Lord 1822, the aforesaid John Slater came before our said Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and every thing therein contained and specified, in form above written. And also the Specification aforesaid was stamped according to the tenor of the  
 15 Statute made for that purpose.

SLATER, Extra.

Inrolled the Twenty-sixth day of January, in the year of our Lord One thousand eight hundred and twenty-two.

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LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
 Printers to the Queen's most Excellent Majesty. 1857.

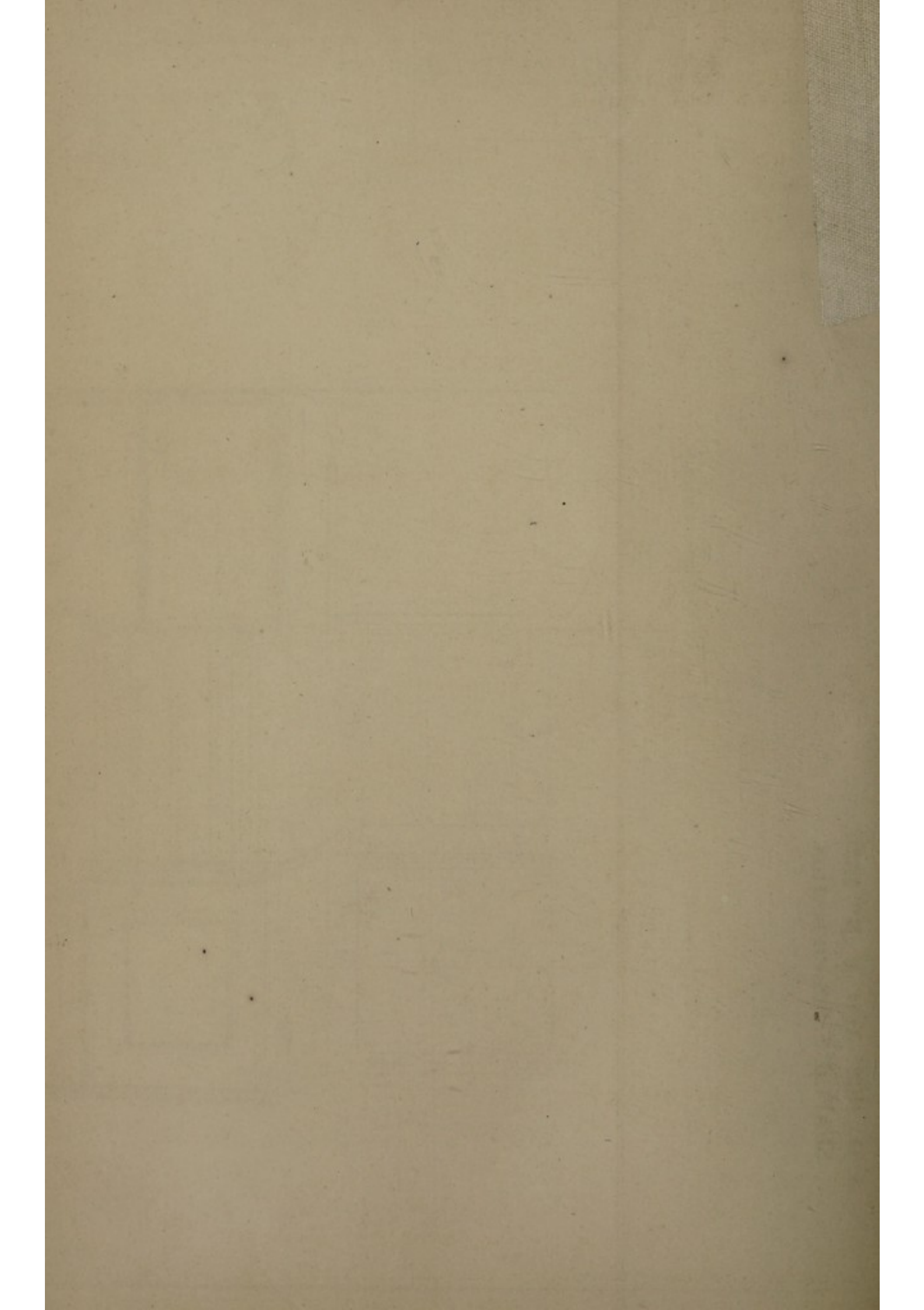














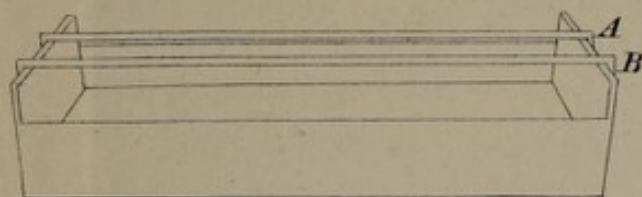


FIG. 1.



FIG. 2.

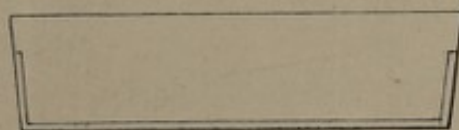
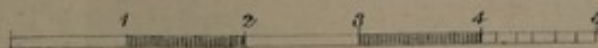


FIG. 3.



*Scale of Feet.*

*The enrolled drawing is colored.*

Drawn on Stone by Mallie & Sons.



