

J. R. STAFFORD.
DOMESTIC BOILER.

No. 5,153.

Patented June 12, 1847.

Fig. 1.

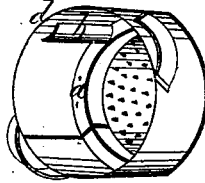
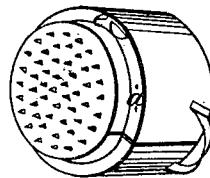


Fig. 2.



UNITED STATES PATENT OFFICE.

JAMES R. STAFFORD, OF CLEVELAND, OHIO.

BOILER FOR CULINARY PURPOSES.

Specification of Letters Patent No. 5,153, dated June 12, 1847.

To all whom it may concern:

Be it known that I, JAMES R. STAFFORD, of Cleveland, Cuyahoga county, Ohio, have invented a new and Improved Mode of Constructing Culinary Vessels, Evaporators, and Pans, and that the following is a full, clear, and exact description of the principle or character which distinguishes them from all other things before known.

10 The nature of my invention consists in applying a tube or tubes to culinary vessels for the purpose of carrying off the steam or gases downward into the stove grate or range on which they may be placed, and casting on or otherwise affixing to either or opposite side when exposed to the action of heat of said culinary vessels, evaporators or pans, numerous solid projections for the purpose of absorbing and radiating the heat.

20 To enable others skilled in the art to make and use my invention I will proceed to describe the principle of the same, for which purpose I have selected an ordinary stove boiler, reference being made to the annexed drawings making a part of this specification.

30 Figure 1 is a perspective view of a stove boiler showing a part of its interior. Fig. 2 is a perspective view of the same showing a portion of exterior and all of the exterior bottom.

The boiler represented is constructed in the ordinary way, excepting as hereinafter shown, a portion of the boiler as is usual, is inserted into stove resting upon flange *a* (Figs. 1 and 2). For the purpose of carrying off the steam or gases from the boiler into the stove, I attach to the side of the boiler a half round tube *b* (Fig. 1) sufficient to carry off the steam or gases generated in the boiler, the tube extends from the flange *a* (Fig. 1) nearly to top as at *d*, the bottom end of the tube extends through the bottom of flange as at *e* (Fig. 2) and fits over a hole in top plate of stove. Now by placing a tight cover on the boiler, all the steam and gases arising from the contents of boiler will descend through the tube into the stove. The tube may be made round, square or any other form, and may extend from near the top to the bottom, or may be placed on either side of boiler. The projection shown on

2) are solid projections of iron screwed in, for ordinary boilers they are made about $\frac{3}{4}$ inch long on the under side and project about $\frac{3}{8}$ inch into the boiler, they are intended to absorb an additional quantity of heat and radiate it into the fluid contained in the boiler, these projections are numerous being about $\frac{3}{4}$ of an inch apart, they may be made of any form or of any metallic substance, though to make them larger at the base on either side of bottom would be preferable, and they may project on either side of bottom and other parts of boiler when it comes in contact with the heat.

Boilers in some cases may be used with the tube and without the projections or with the projections and without the tube as in the case of a water boiler for culinary purposes or a tea kettle it would not be deemed necessary to carry off the steam, while it would be desirable to heat the water as rapidly as possible. In placing a steamer over a boiler, kettle or pot, a tube would be necessary to the steamer to communicate with the tube of the vessel on which it stands, while there would be no necessity for the projections being attached to steamers.

For evaporators and pans the projections may be necessary for some uses to have them on both sides, while for other uses one side would be sufficient, and the tubes would be superfluous.

The solid projections attached to culinary vessels, evaporators and pans known and used as legs or feet though they as conductors of heat I do not claim them as my invention but—

What I do claim as my invention and desire to secure by Letters Patent is—

The application of a metallic tube or tubes on either side of or within the body of pots, kettles, steamers or other culinary vessels, when such tube or tubes shall be used or intended to be used for the purpose of conducting off the steam or gases generated within said culinary vessels downward into the stove grate or range on which they may be placed.

JAMES R. STAFFORD.

Witnesses:

THOMAS WALL,
A. QUINN.

*Disclaimer.**To the Commissioner of Patents:*

The petition of E. D. GOODRICH, EBEN SEAVEY, H. M. GOODRICH, and H. N. LOVE- LAND, under the firm of GOODRICH, SEAVEY & Co., respectfully represents that they have, by assignment duly recorded in the Patent Office, become the owners of a right for the New England States, viz., Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut, to a certain Improvement in Boilers for Culinary Pur- poses, for which Letters Patent of the United States were granted to JAMES R. STAFFORD, of Cleveland, Ohio, dated the twelfth day of June, A. D. eighteen hun- dred and forty-seven; that they have reason to believe that through inadvertence and mistake the claim made in the specification of said Letters Patent is too broad, includ- ing that of which the said patentee was not the first inventor.

Your petitioners therefore enter the fol- 25
lowing disclaimer:

"We do not claim the employment of a metallic tube or tubes extending down at or near the side or sides of culinary vessels to carry off the steam or gases into the stove, grate, or range on which they may be placed in any other manner than when the said tube or tubes shall terminate at the bottom of the flange 'a' substantially in the manner and for the purposes specified in the said patent," which disclaimer is to operate to the extent of the interest in said Letters Patent vested in your petitioners who have paid ten dollars into the Treasury of the United States agreeably to the requirements of the act of Congress in that case made and provided.

Witness our hands the twenty ninth day of May, A. D. eighteen hundred and fifty four.

GOODRICH, SEAVEY & CO.

Witness:

ISIAH K. SONNY.