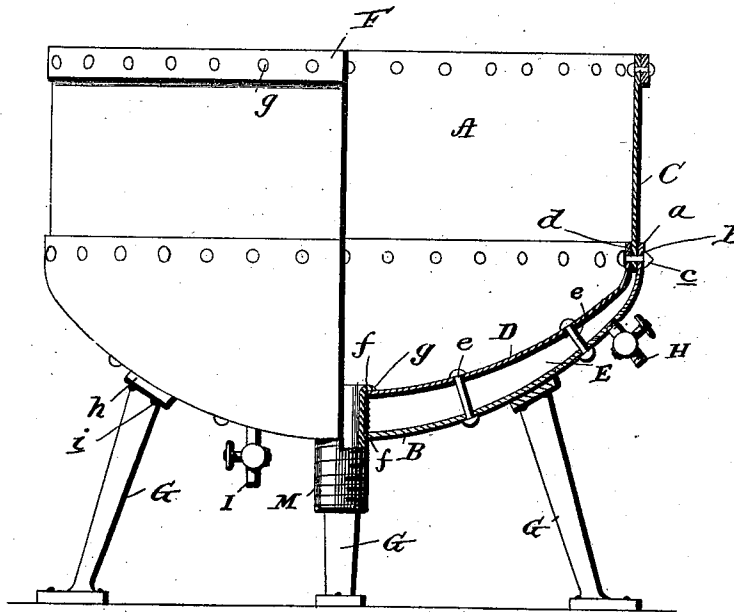


(No Model.)

C. A. GLOEKLER & R. MUNROE, Jr.
RENDERING KETTLE.

No. 502,714.

Patented Aug. 8, 1893.



Witnesses:

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CHARLES A. GLOEKLER AND ROBERT MUNROE, JR., OF PITTSBURG,
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RENDERING-KETTLE.

SPECIFICATION forming part of Letters Patent No. 502,714, dated August 8, 1893.

Application filed September 7, 1892. Serial No. 445,264. (No model.)

To all whom it may concern:

Be it known that we, CHARLES A. GLOEKLER and ROBERT MUNROE, Jr., citizens of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Rendering-Kettles; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention has relation to improvements in that class of kettles, designed more especially for rendering lard and the like, and it has for its general object to provide such a kettle and one embodying a steam jacket or space, of a cheap, light, and durable construction.

With the foregoing end in view the invention will be fully understood from the following description and claims when taken in connection with the annexed drawing, in which the figure is a view of our improved kettle; the same being illustrated partly in elevation and partly in section.

In carrying out our invention we take a circular piece of wrought iron or steel, as A, and dish the same as illustrated so as to form the lower concave section B, of the kettle. We then flatten the edge of the piece A, to form the flange a, and provide said vertically-disposed flange with a series of holes b, for the passage of the bolts or rivets c, which bolts or rivets serve to connect the lower or outer concave section B, the vertical section C, and the upper or inner concave section D. This upper or inner concave section D, which has its edge flattened to form the vertically disposed flange d, is formed from a piece of material of less diameter than the piece forming the section B, and is dished less than the section B, so that when the two are connected together as illustrated, a steam jacket E, will be formed between them for the reception of steam, through the medium of which the contents of the kettle are heated. By the provision of the sections B, and D, having the vertically disposed flanges a, and d, as just described, it will be seen that the necessity of bending any of the sections at sharp an-

gles, which would tend to weaken the same, is avoided.

The steam is let into the jacket E, through the inlet pipe H, which is preferably valved as shown, and the water of condensation is let out of the jacket through the exhaust pipe I, which is also preferably valved as illustrated. This exhaust pipe I, is preferably arranged, in practice, at a point remote from the inlet pipe H, so that the surface of the section D, will be evenly heated.

The sections B, and D, are connected together and braced by the bolts e, which are arranged at suitable distances apart and serve to greatly strengthen the bottom of the kettle.

Formed in the center of the sections B, and D, are vertically aligned threaded apertures f, through which takes the exteriorly threaded nipple or discharge pipe M. This nipple or discharge pipe M, has its upper end expanded or flanged as illustrated at g, so as to strengthen its connection and prevent leakage, and by reason of the said nipple or discharge pipe being connected to the sections B, and D, in the manner described, it will be seen that it may be readily removed without damage, when desirable.

The vertical section C, which forms the side wall of the kettle and is formed from a strip of wrought iron or steel, has its lower edge secured between the flanges of the sections B, and D, by the bolts or rivets c; and the said sections B, and D, are calked upon the section C, so as to strengthen the connection and render the employment of more than one series of bolts or rivets unnecessary.

In order to strengthen and prevent breaking of the upper edge of the section C, we design providing the same with a reinforcing band F, which is preferably connected to the section at the upper edge thereof by a seam of rivets g, as shown.

G, indicate the supporting legs of the kettle which are preferably arranged so as to form a tripod, and are provided at their upper ends with flanges h, for the passage of bolts i, which serve to connect said legs to the lower concave section B.

From the foregoing description it will be seen that we have provided a very light and

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durable kettle, and one formed from such material that a heating of the contents may be very quickly effected, which is an important desideratum.

5 Having described our invention, what we claim is—

1. A kettle, substantially as described, for rendering lard, or the like, comprising the lower or outer concave section B, having the
10 vertically disposed flange *a*, the upper or inner concave section D, dished less than the section B, so as to form the steam jacket E, and having the vertically disposed flange *d*, the vertical section C, unbent throughout its
15 width and having its lower edge interposed between the vertical flanges *a*, and *d*, of the sections B, D, and bolts or rivets taking through said flanges and the vertical section and serving to connect the same together, substantially as and for the purpose set forth.

2. A kettle, substantially as described, for rendering lard or the like, comprising the lower or outer concave section B, having the

vertically disposed flange *a*, and the central threaded opening, the upper or inner concave
25 section D, dished less than the section B, so as to form the steam jacket E, and having the central threaded opening and the vertically disposed flange *d*, the vertical section C, unbent throughout its width and having its
30 lower edge interposed between the vertically disposed flanges of the sections B, D, the bolts or rivets taking through said flanges and the vertical section and serving to connect the same together, and the exteriorly threaded
35 nipple taking through the threaded openings of the sections B, D, and having the flange at its upper end, all substantially as and for the purpose set forth.

In testimony whereof we affix our signatures 40
in presence of two witnesses.

CHARLES A. GLOEKLER.

ROBERT MUNROE, JR.

Witnesses:

ED. GLOEKLER,

GEO. W. RICHARDS.