

G. H. Buckley. Dumping Caldron.

117254

Fig. 1. PATENTED JUL 25 1871 Fig. 4.

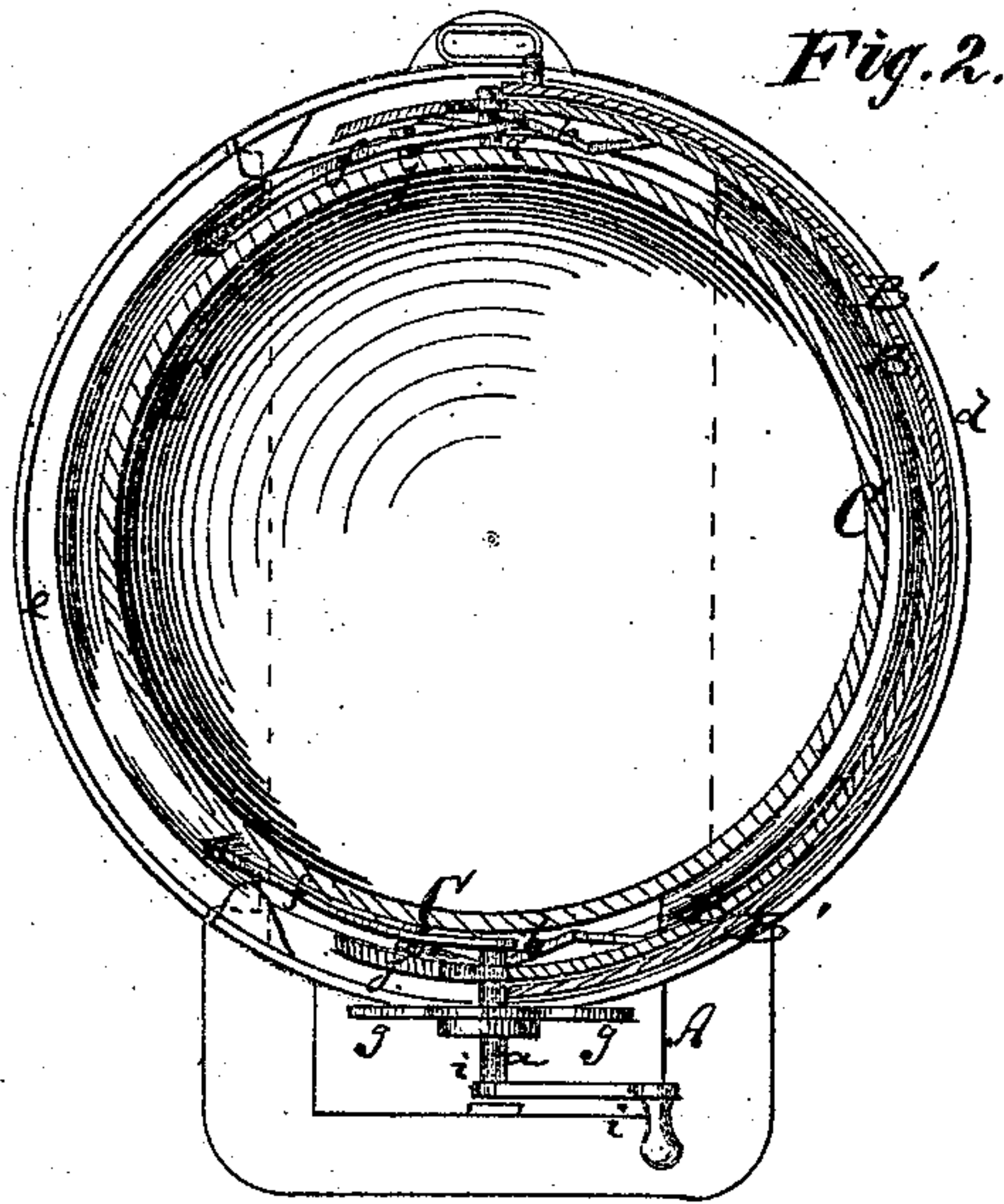
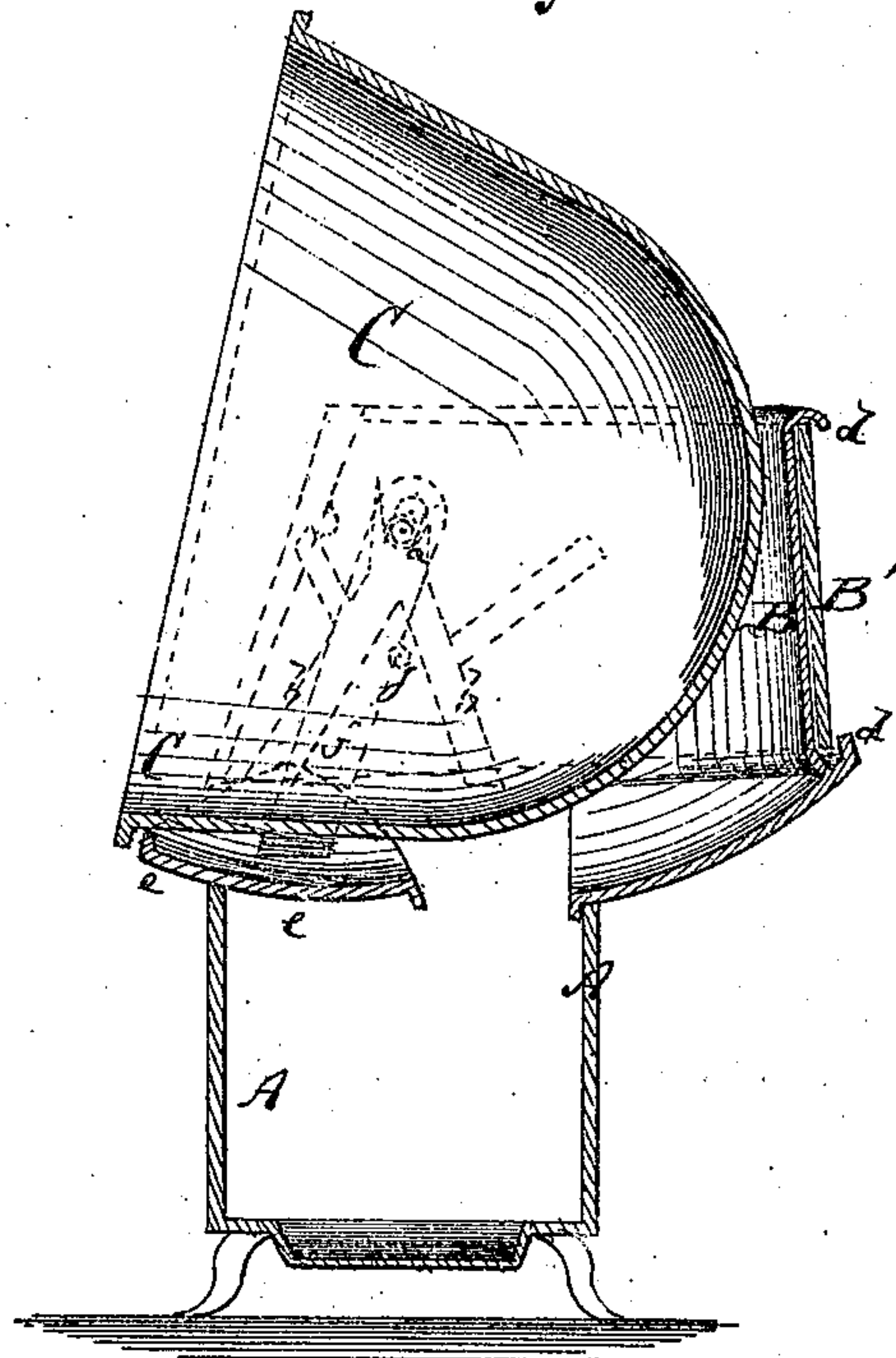
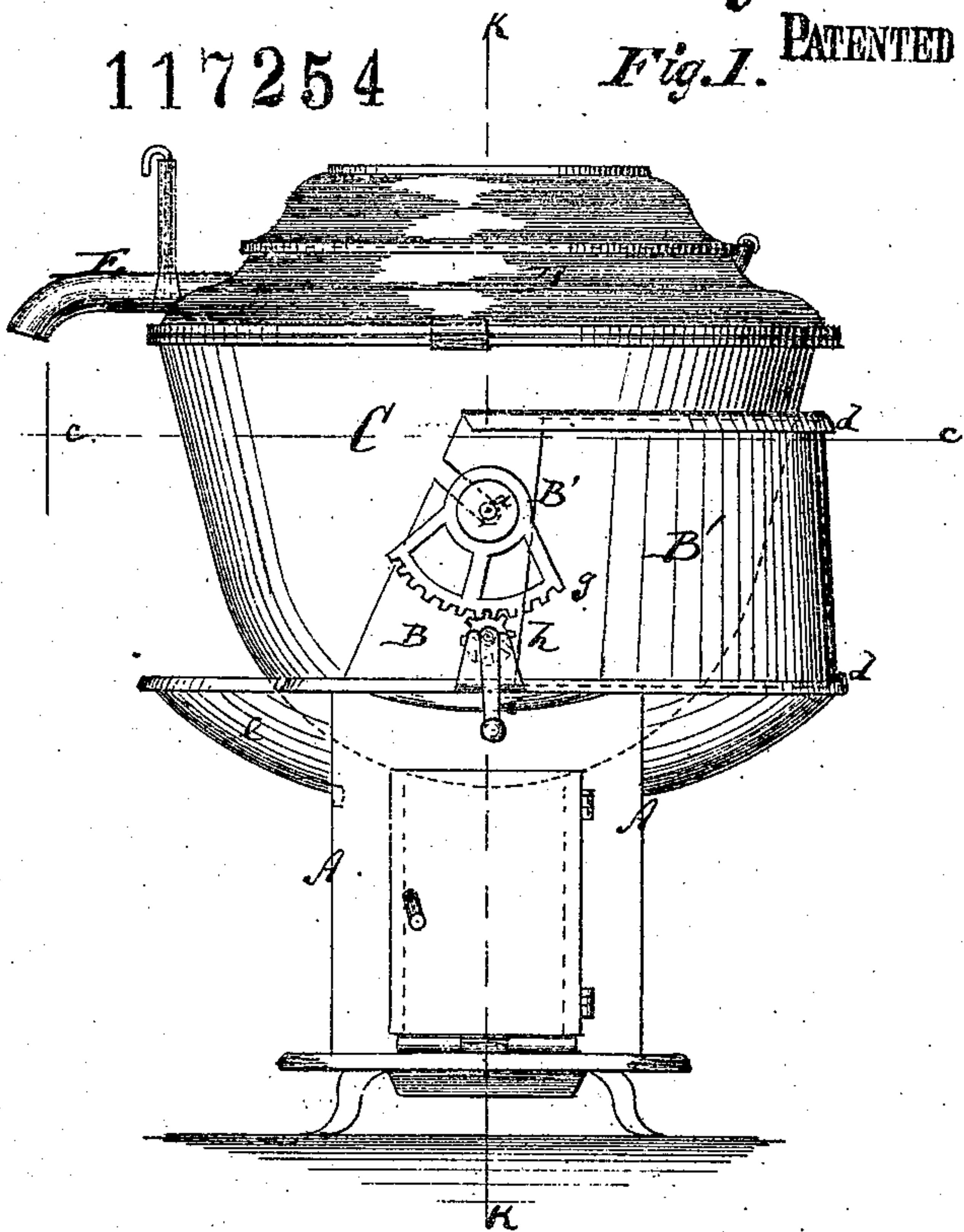


Fig. 2.

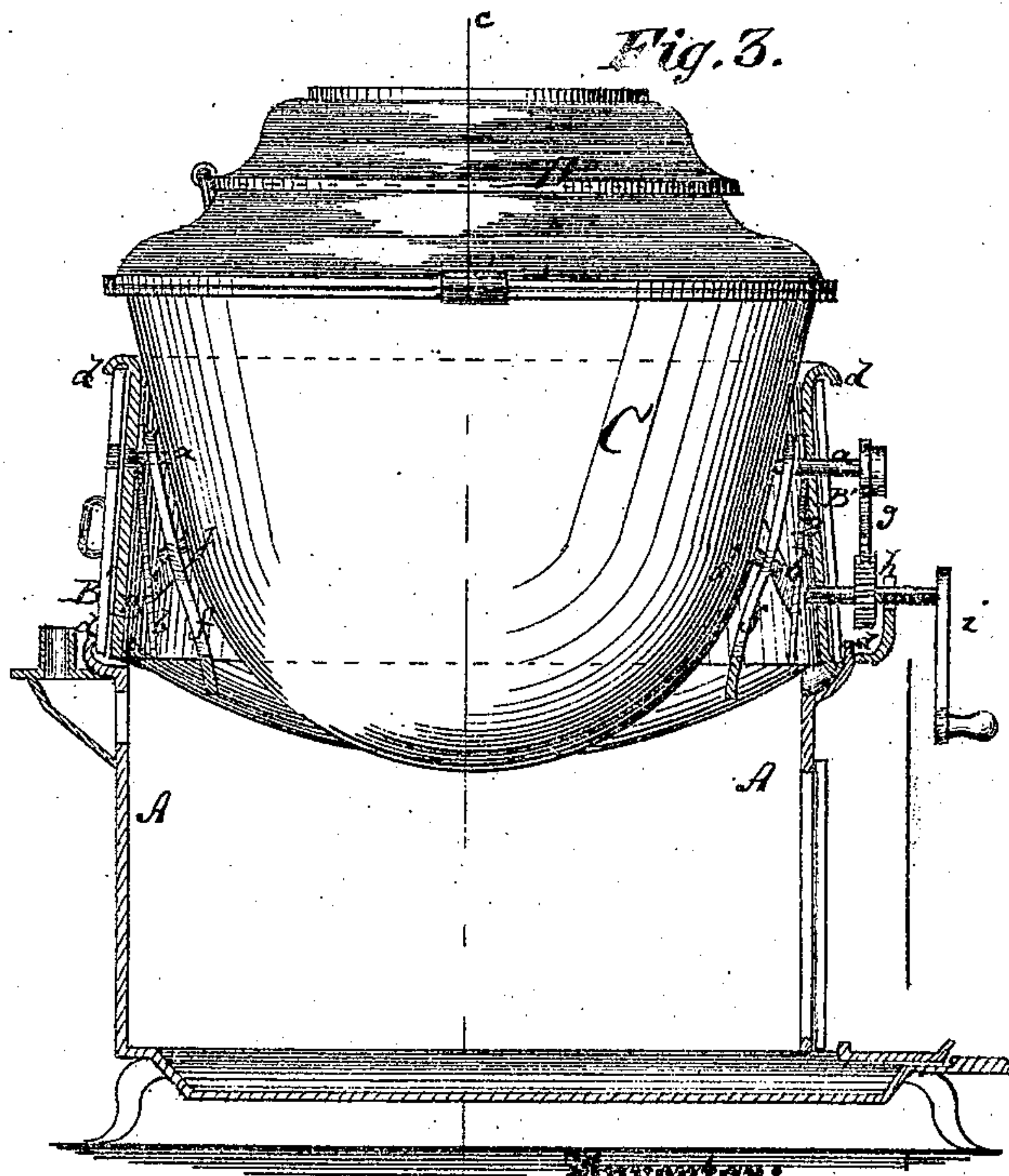


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE H. BUCKLEY, OF QUINCY, ILLINOIS.

IMPROVEMENT IN FARMERS' BOILERS.

Specification forming part of Letters Patent No. 117,254, dated July 25, 1871.

To all whom it may concern:

Be it known that I, GEORGE H. BUCKLEY, of Quincy, in the county of Adams and State of Illinois, have invented a new and Improved Dumping-Caldron; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a side elevation of my improved dumping-caldron, showing it in a horizontal position. Fig. 2 is a horizontal section of the same on the line *c c*, Fig. 1. Fig. 3 is a side view of the same, but transverse section of the supporting-furnace, the line *k k*, Fig. 1, indicating the plane of section. Fig. 4 is a vertical central section of the caldron on the line *c k*, Fig. 3.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus for supporting a pivoted caldron or boiler, and mechanism for dumping the same; and consists in a peculiar and novel arrangement of furnace and in a new dumping-gear, as hereinafter more fully described.

A in the drawing represents the furnace and support of the caldron. Its upper end supports a cylindrical jacket, B. C is the caldron, provided with trunnions *a a* at opposite sides, which are hung in braces *b b* projecting from the furnace within the jacket B. The furnace proper is of rectangular or other suitable shape, considerably narrower than the jacket above, as is clearly shown in Figs. 1 and 4, so that it will flare on top to form a base or bottom for the overhanging parts of the jacket. One-half the jacket B, marked B', is made loose, so that it can be slid into grooves *d d*, provided for its reception on the stationary half at top and bottom, as shown.

That part *e* of the overhanging bottom of the jacket which is under the movable part B' of the jacket is, by means of projecting arms *f*, suspended from the trunnions of the caldron. To one of the trunnions *a* is secured a toothed segment, *g*, which meshes into a pinion, *h*, hung to one side of the furnace. By a crank-handle, *i*, the pinion can be readily turned. While fire is under the caldron the jacket is closed around it. When the caldron is to be dumped the part B' of the jacket is first moved out of the way to make room at one side, as in Fig. 1. The pinion is then turned to dump the caldron, as in Fig. 4, and pour its contents into a suitable receptacle. While being dumped the caldron crowds the pivoted bottom *e* into the furnace, as is clearly shown in Fig. 4. When allowed to resume its balanced position the caldron, by means of projecting lugs *j*, strikes the arms *f* and swings the bottom *e* out again into the position shown in Fig. 1. A cover, D, may be hinged or otherwise fastened to the caldron, and provided with a spout, E, in which a strainer and valve, or either, may be arranged.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The arrangement of the pendent caldron in braces *b b*, projecting from the furnace and within the jacket, as and for the purpose specified.

2. The movable bottom *e*, suspended from the trunnions of the caldron to be swung by the same, substantially as herein shown and described.

3. The pivoted caldron C, provided with the toothed segment or its equivalent, and with the projecting lugs *j*, as specified.

GEORGE H. BUCKLEY.

Witnesses:

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