O. F. GLIDDEN.

Wash-Boilers.

No. 137,545. Patented April 8, 1873.

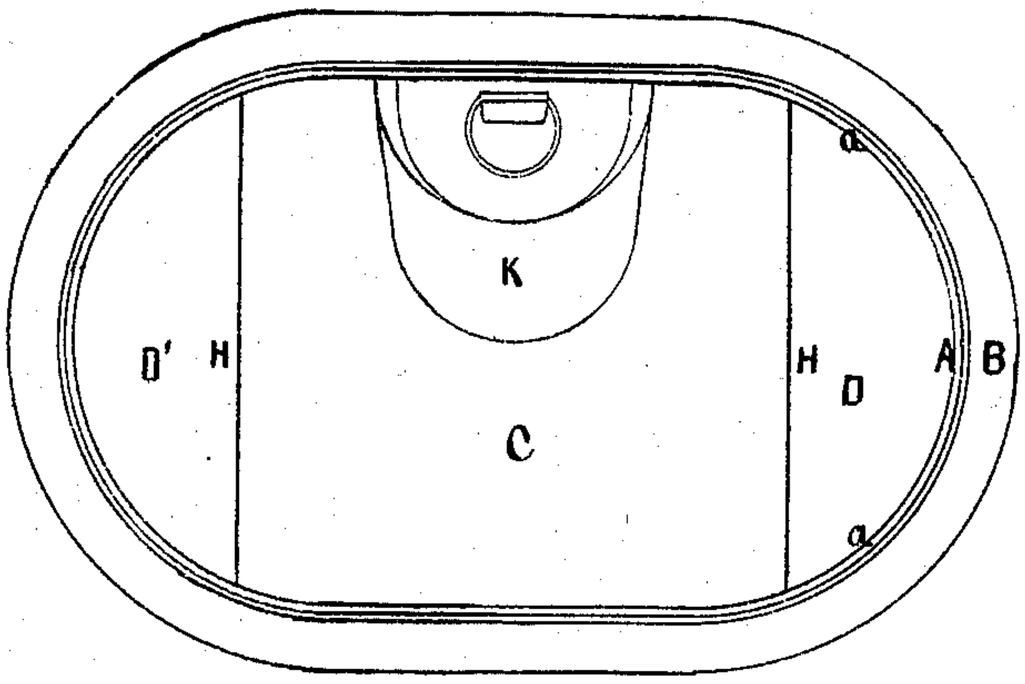

Fig. 1

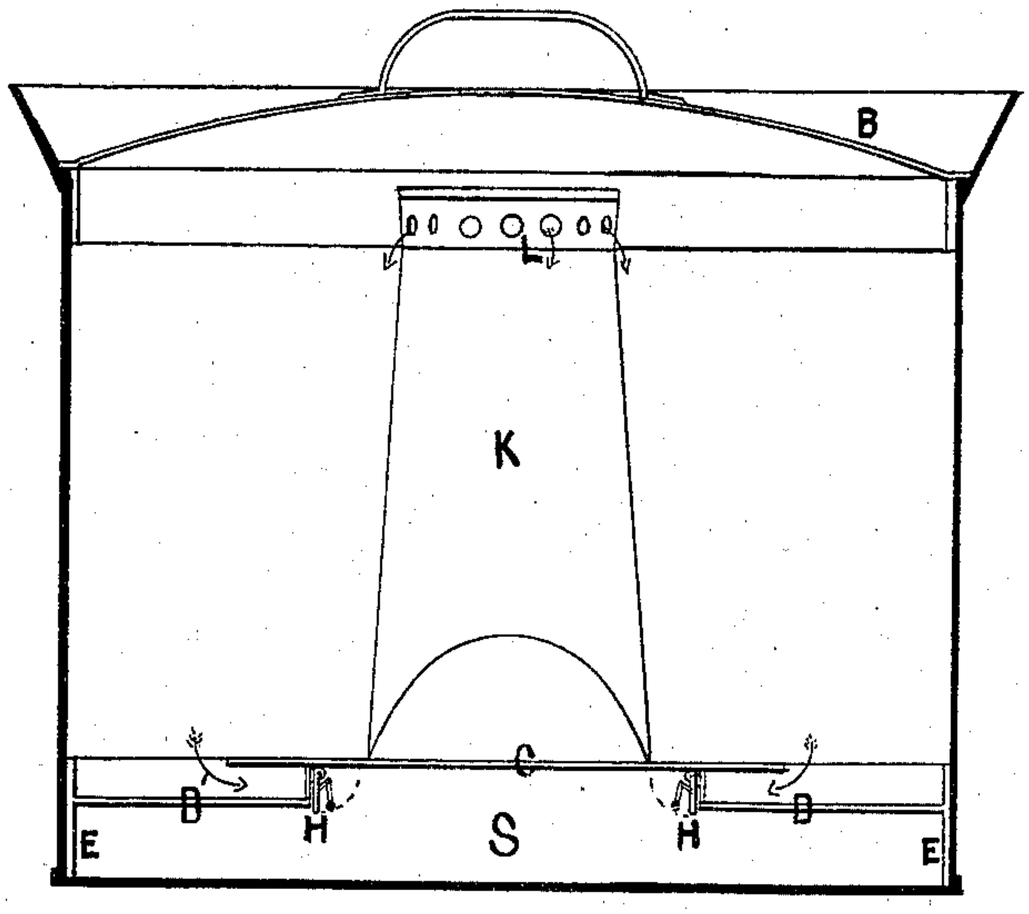

Fig. 2

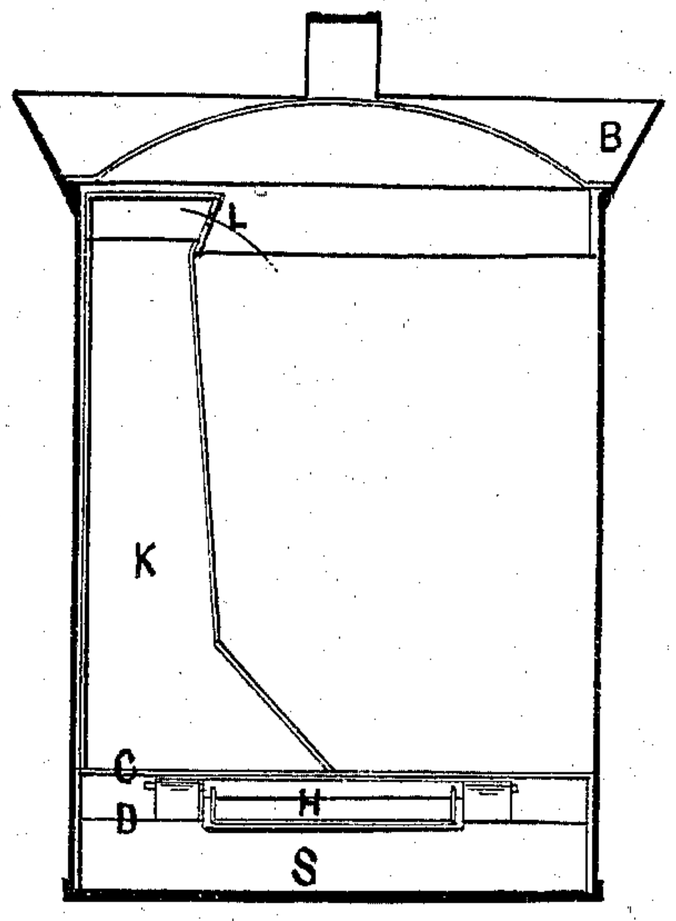

Fig. 3

WITNESSES

Frank G. Parker

John F. Haley

INVENTOR

Oscar F. Glidden

per William Edson Atty

UNITED STATES PATENT OFFICE.

OSCAR F. GLIDDEN, OF STONEHAM, MASSACHUSETTS, ASSIGNOR OF ONE-HALF HIS RIGHT TO B. A. FOWLER, OF SAME PLACE.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **137,545**, dated April 8, 1873; application filed February 19, 1873.

To all whom it may concern:

Be it known that I, OSCAR F. GLIDDEN, of Stoneham, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Wash-Boilers, of which the following is a specification:

The Nature and Object of the Invention.

The nature of my invention consists in combining, with a wash-boiler, a false bottom of peculiar construction, and arranging with the same weighted valves and a delivery-pipe.

The object of the invention is to cause a stream of hot water to flow upon the clothes in an effectual manner.

Description of the Drawing.

Figure 1 is a plan looking down into the boiler. Fig. 2 is a longitudinal vertical section. Fig. 3 is a cross-vertical section.

General Description.

The boiler A is made in the ordinary manner of making flat-bottom wash-boilers, except that at its top it has a cover-seat, *a*, and a flange, B, extending outward and upward, for the purpose of preventing the overflow of the water as it is ejected from the pipe K. The false bottom consists of a central piece, C, and two end pieces, D D—the three parts being united by an elliptical band or hoop, E E E, so as to leave quite a space, S, between the false bottom and the real one, as shown in Figs. 2 and 3. The central part C of the false bottom is raised above the part D D, and the openings thus formed between the part C D and C′ D′ is closed by valves H H, these valves being loaded or weighted so as to remain closed unless forced open by a descending current of water. K is a pipe attached to the false bottom C, and communicates with the space S between the bottom. The top of this pipe is closed, but lateral openings L, Figs. 2 and 3, are made near the top through which the water may freely flow as it is forced up by the steam below.

The action of my combined boiler and washer is this: The desired amount of water is poured into the boiler, and the clothes to be cleaned are placed upon the false bottom. As soon as the water is brought to the boiling-point, steam forms below the false bottom and forces the water up the pipe K, and from thence is thrown forcibly onto the clothes. This action causes a great commotion of the water in the boiler, and, unless some provision is made to prevent, the water will be thrown out between the cover and its seat. I have, therefore, added to the boiler the flange B already described.

I claim as my invention—

In a steam-washer, the combination of the weighted valves H H and the false bottom C D D′ with the pipe K, substantially as described, and for the purpose set forth.

OSCAR F. GLIDDEN.

Witnesses:

F. G. PARKER,

JOHN J. HALEY.