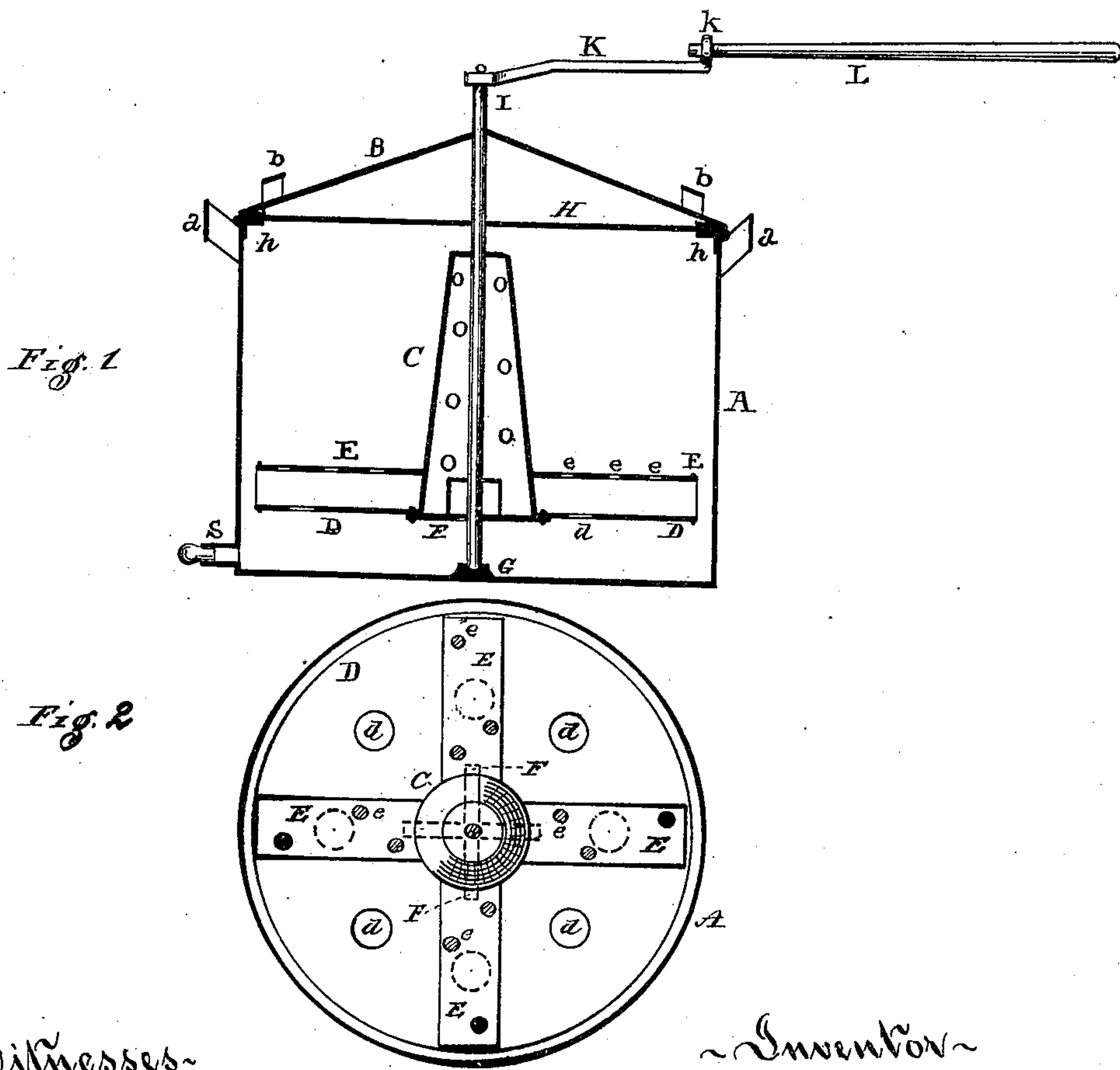


A. S. HERR.
STEAM WASHING BOILER.

No. 178,525.

Patented June 13, 1876.



Witnesses—
R. S. Hittell
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UNITED STATES PATENT OFFICE.

ABRAHAM S. HERR, OF GIBSONBURG, OHIO.

IMPROVEMENT IN STEAM WASHING-BOILERS.

Specification forming part of Letters Patent No. 178,525, dated June 13, 1876; application filed April 15, 1876.

To all whom it may concern:

Be it known that I, ABRAHAM S. HERR, of Gibsonburg, in Sandusky county, and in the State of Ohio, have invented certain Improvements in Steam Washing-Boilers, of which the following is a specification:

This invention relates to an extensive class of devices for boiling and steaming wash, having improved on my patent of November 28, 1871, No. 121,285, in the arrangement of my portable bottom with its central perforated tube, in such a manner as to differ substantially in its construction and operation.

The accompanying drawing, with the letters of reference marked thereon, and a brief explanation, will enable those skilled in the art to make and use the same, and in which—

Figure 1 is a vertical section of the wash-boiler and central tube and disk. Fig. 2 is a plan view of the same.

A represents a circular wash-boiler of any desired size. This has a step, G, centrally on the bottom for the shaft I. This shaft also passes through an opening centrally in a cross-bar, H, which is removable, and held between flanges *h* on each side. The cover B has its vertical flange cut out to set over the cross-bar H on opposite sides, and is centrally perforated for the shaft I, which shaft supports the conic tube C on a disk, D. This disk also supports the four radial chambers E at right angles to each other from the base of the tube C to the circumference. These chambers have perforations on the top at sundry points, as also the conic tube connected with them and the disk. The disk has, say, eight larger openings cut out, one under each chamber, and between the chambers, for the escape of steam and the boiling water to the clothing subjected to its action, the top of the tube being closed around the shaft (to which the revolving disk with its chambers is attached) above, and also below to cross-bars F. (Shown by the dotted lines in Fig. 2.) These cross-bars are connected at their ends by a rivet to the under

side of the disk D, across the open mouth of the tube below the disk. A crank-handle, K, is set over the square top of the shaft, the other end being rounded and turned up for a longer wooden handle, L, by which the shaft and its appendages can be revolved or simply turned half round and back to agitate the clothing to be cleansed, and greatly aid in removing the dirt by the rubbing or agitating movement of the disk, which can be accomplished at any desired distance from the fire or stove, by simply lengthening the wooden handle L. These four radial chambers E perform the office of rubbers as well as steam-ejectors, without being injurious by friction. The steam opens the fibers, loosens the dirt, which falls to the bottom below the disk, and, being provided with a faucet at S, the dirty water can be drawn off, and clean water supplied. The inside disk and tube-connection can be lifted out for cleaning.

I am aware that central perforated tubes are used, as also revolving perforated bottoms, either revolved by the steam in the boiler, as claimed by Patent No. 127,567, June 4, 1872, or by means of a crank-handle, but differing substantially in the arrangement and functions of the parts claimed; hence, I do not claim any distinct part of my device. The merit lies in the combination and arrangement of the parts as a whole, which constitutes my improvement; therefore

What I claim in a steam wash-boiler is—

The combination of the four perforated radial chambers E on a perforated disk, D, surrounding a conic central perforated tube, C, closed at the top, and connected by cross-bars F over or across the open end below the disk with a central shaft, I, held and operated or rotated as and for the purpose herein set forth.

A. S. HERR.

Witnesses:

R. S. HITTELL,
T. G. BROSIUS.