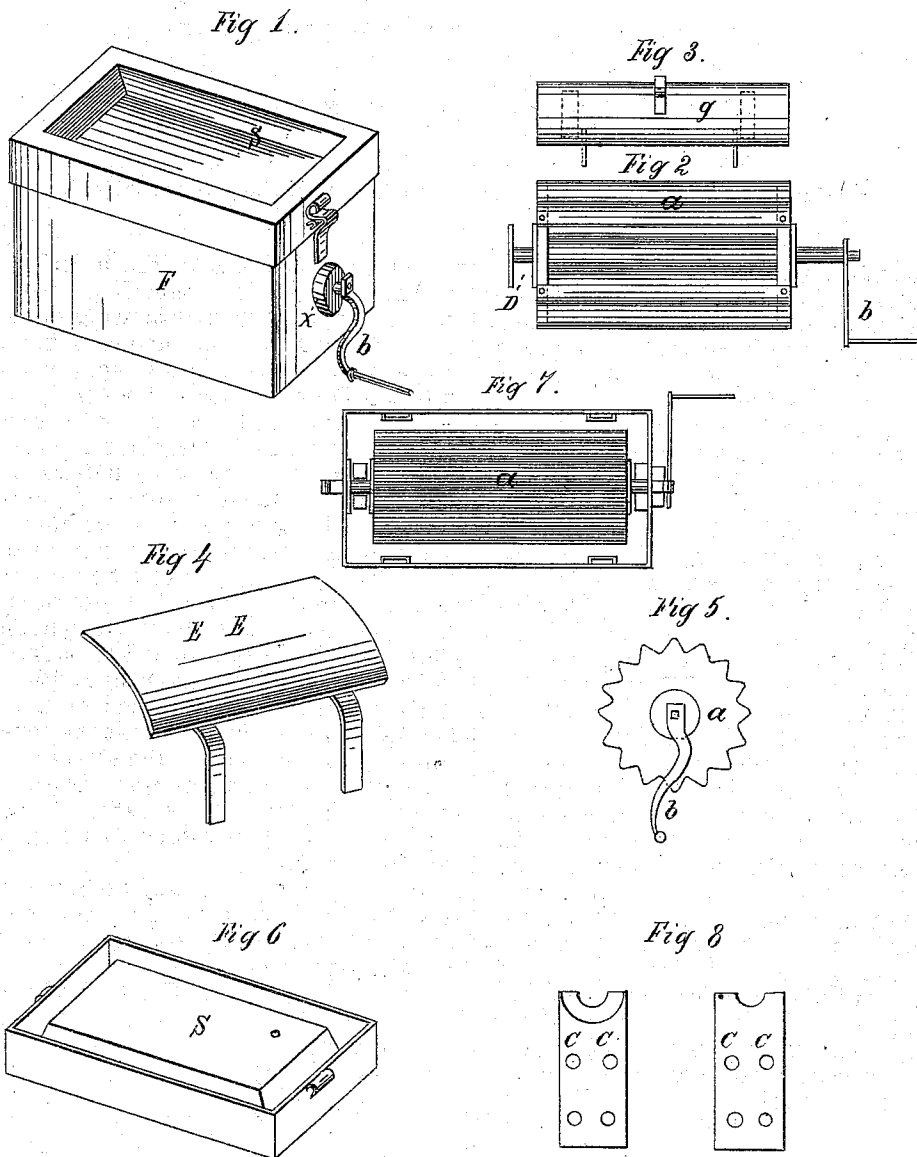


O. B. EVANS.

Washing-Machines.

No. 136,825.

Patented March 18, 1873.



Witnesses:

H. L. Perry
L. M. Wilcox.

Inventor.

Oliver B. Evans.

UNITED STATES PATENT OFFICE.

OLIVER B. EVANS, OF TITUSVILLE, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **136,825**, dated March 18, 1873.

To all whom it may concern:

Be it known that I, OLIVER B. EVANS, of Titusville, Crawford county, Pennsylvania, have invented certain Improvements in Steam-Boilers for Laundry Purposes, of which the following is a specification:

My invention relates to an improvement in a steam-boiler for laundry purposes, drawing of which I herewith furnish with the following specification.

Figure 1, letter F, is the form of a common boiler with the improved cover S. Fig. 2, letter *a*, is a revolving perforated and corrugated cylinder. Fig. 3, letter G, is a movable cover to the cylinder *a*. Fig. 4, letters E E, are wings to be placed on the inside of boiler F. Fig. 5 is the reversed end of cylinder *a*. Fig. 6 is the bottom of cover S. Fig. 7 is boiler F and cylinder *a* combined. Fig. 8, letters *c c*, are posts on which I rest the journals D D.

I combine my invention with boiler F by placing cylinder *a* with an opening on one side to receive the clothes, and inclose the same by the movable cover G, which cylinder I turn with crank *b* so as to displace the clothes, that all parts may receive the steam equally, and also an equal amount of friction from the corrugated sides of the cylinder *a*. I hold the cylinder in place by resting the journals D D at each end on the top of two posts, *c c*, placed and fastened on the inside of boiler F, with a flange or cap on the journal D to prevent a lateral movement. The jour-

nal at the other end of the cylinder passes through the end of boiler F, on the end of which I attach the crank *b*, using the common packing-box X on the outside of boiler F to prevent the escape of the steam. I place two wings, E E, on the inside of boiler F, by means of loops attached to the boiler to receive the arms of the wings. The wings I curve to correspond with the form of cylinder *a*, to assist in keeping the steam equal on all sides of the cylinder; also to serve as conductors to return the condensed steam to the bottom of the boiler F. The cover S I construct with a concave top, into which I place cold water to condense the steam that arises above the cylinder *a*. I allow the sides of the cover S to pass over the outside of the boiler F and fasten with a catch, which is attached to the end of the boiler. This arrangement is to prevent the cover from rising by the pressure of the steam.

I add liquid ammonia and chlorine to the water in the boiler F to assist in bleaching.

What I claim, and desire to secure by Letters Patent, is—

The boiler F and recessed lid S, in combination with the corrugated and perforated cylinder *a* and wings E, all arranged as and for the purposes specified.

OLIVER B. EVANS.

Witnesses:

H. S. PERRY,
F. W. WILCOX.