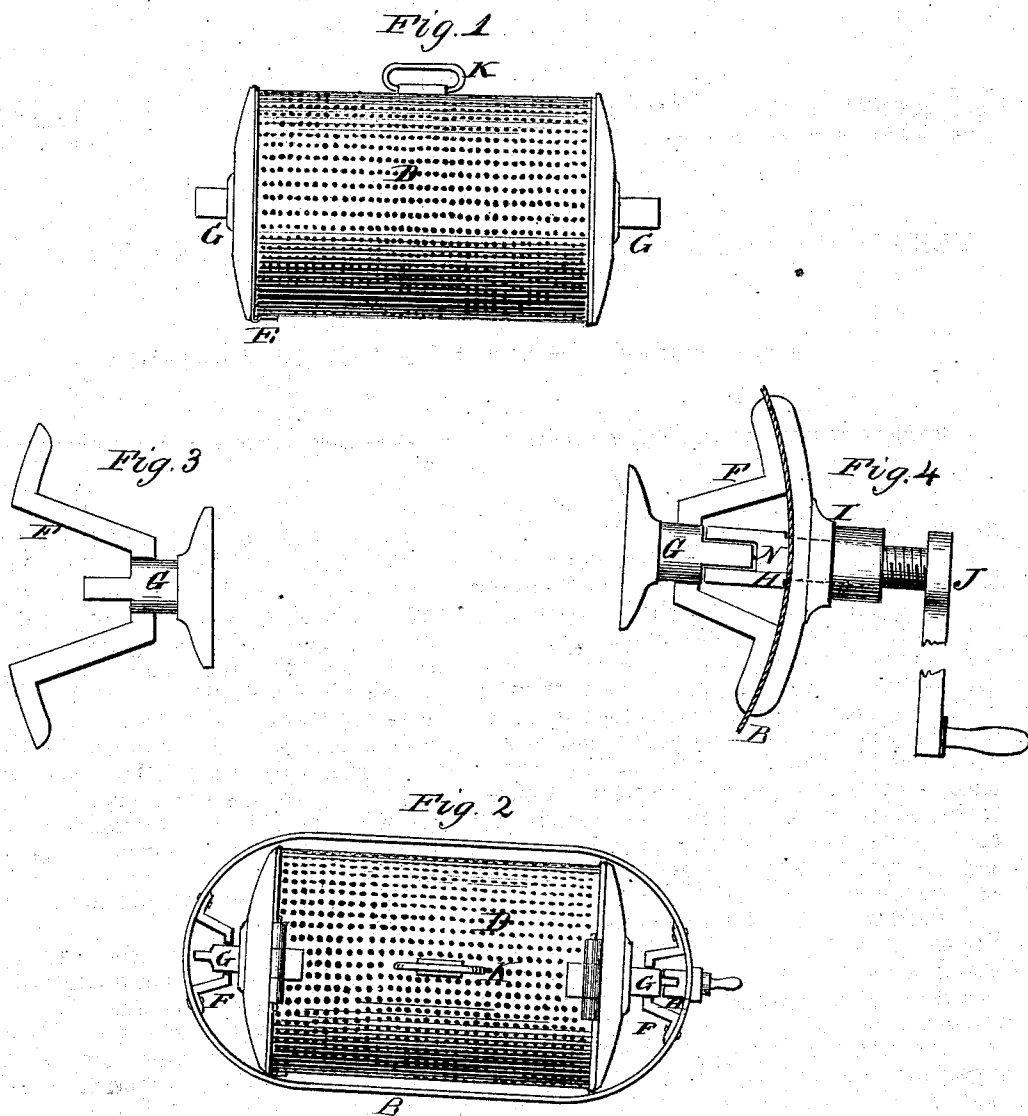


F. M. COOMBS.
Boiler Washing-Machines.

No. 157,581.

Patented Dec. 8, 1874.



Witnesses:
Raymond T. Tamm
George H. Coombs

Inventor:
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UNITED STATES PATENT OFFICE.

FRED M. COOMBS, OF TITUSVILLE, PENNSYLVANIA, ASSIGNOR TO W. M. COOMBS, OF SAME PLACE.

IMPROVEMENT IN BOILER WASHING-MACHINES.

Specification forming part of Letters Patent No. **157,581**, dated December 8, 1874; application filed June 8, 1874.

To all whom it may concern:

Be it known that I, FRED M. COOMBS, of Titusville, Pennsylvania, have invented a Boiler Washing-Machine for laundry purposes, of which the following is a specification:

My invention has relation to a boiler washing-machine containing a reversible perforated cylinder; and my improvement consists in the combination with a wash-boiler, and with a reversible perforated cylinder having flat-tenoned journals, of supporting-brackets, secured to the ends of the boiler, and formed with open bearings and a bifurcated crank-shaft or key, all constructed, arranged, and operating as hereinafter described.

Referring to the accompanying drawings, Figure 1 is a side view of perforated cylinder. Fig. 2 is a plan view of boiler containing the reversible perforated cylinder. Figs. 3 and 4 are detail views.

B designates an ordinary wash-boiler. D is a perforated metal cylinder having a bail, K, and provided with flat-tenoned journals G G and hinged ends opening outwardly, for the reception, arrangement, and removal of the clothes. F F designate brackets secured to the ends of the boiler, and projecting inwardly, for the reception of the journals G, the cylin-

dricial portions of which turn in recesses or semicircular bearings, from which the cylinder may be lifted in order to reverse the cylinder. The journals are tenoned, as described, for the purpose of forming connection, alternately, with the crank-shaft H, the inner end of which is bifurcated, as shown at N. J represents the crank, and I the journal-bearing of the crank-shaft. To prevent the escape of steam said bearing should be packed with lead.

Having now described my invention, I do not claim, broadly, a reversible perforated cylinder, the same being of common use in wash-boilers; but

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

The combination, with the wash-boiler B, and with the reversible perforated cylinder D, having the flat-tenoned journals G, of the inwardly-projecting brackets F, having open bearings, and the permanent bifurcated crank-shaft H, substantially as and for the purpose specified.

FRED M. COOMBS.

Witnesses:

RAYMOND T. STARR,
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