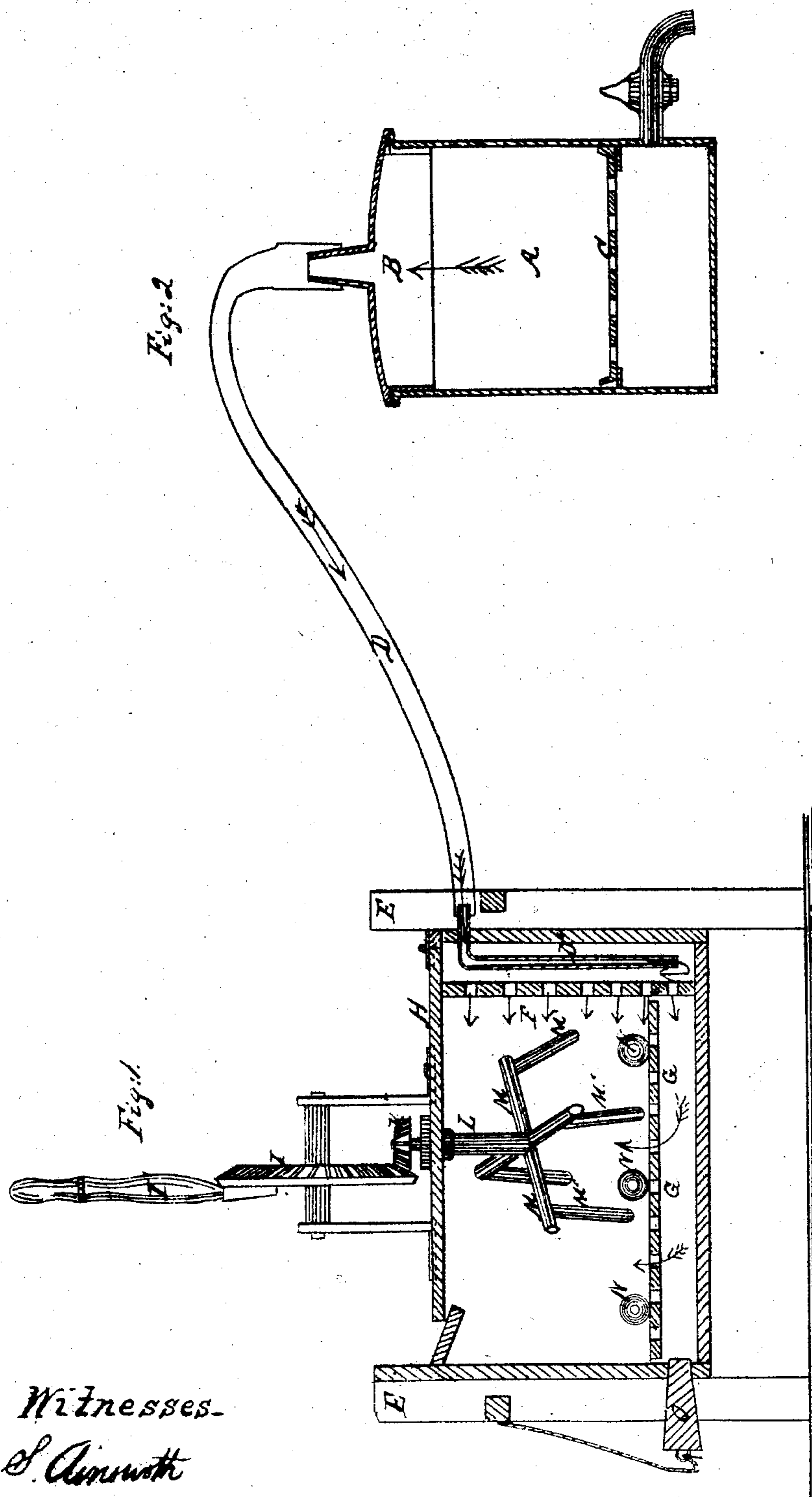


*I. H. Whitney.*  
*Washing-Machine.*

*Nº 76281*

*Patented Mar. 31, 1868.*



*Witnesses.*  
*S. Ainsworth*  
*Chas. Clauson*

*Inventor.*  
*Sen Whitney*  
*D. P. Hollaray & Co*  
*his attys*

# United States Patent Office.

LEVI H. WHITNEY, OF WASHINGTON, DISTRICT OF COLUMBIA.

*Letters Patent No. 76,281, dated March 31, 1868.*

## IMPROVED WASHING-MACHINE.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, LEVI H. WHITNEY, of Washington, in the District of Columbia, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a vertical section of the machine, and

Figure 2 is a vertical section of the boiler and steam-generator.

The following description will enable persons skilled in the art to construct and operate my improved machine.

A is a boiler, covered by a closely-fitting cover, B, in which steam is generated. C is a perforated plate across the boiler, on which such clothes as may require it may be laid and subjected to the action of the steam before being placed in the machine. D is a pipe, conducting the steam from the boiler into the case E of the washing-machine, where it is discharged through the connecting-pipe D'. F is a vertical partition across the chamber near the steam-pipe, perforated with holes, to permit the passage of the steam, and G is a similarly-constructed diaphragm, extending horizontally across the case above the floor, leaving room between them for the water formed by the condensation of the steam, which may be drawn off through the opening closed by the plug O.

The chamber is covered by a lid, H, hinged to the case, to which the operating-mechanism is attached. This consists of a bevel-wheel, I, the shaft of which turns on standards resting on the cover, and receiving a reciprocating rotary movement from the arms I' attached thereto. The bevel-wheel I is geared into the bevel-pinion K, in the upper end of the vertical shaft L, the bearings of which are on the cover H. On the lower end of the shaft is the cross-frame M, having downwardly-projecting arms M'. This frame is not attached at right angles to the shaft, but so attached that one side is elevated and the other depressed, so that the arms M' shall be at unequal distances from the bottom. N N are balls, placed on the perforated diaphragm G. There should be a half dozen or more of these balls.

It will only be necessary to subject clothes which are unusually hard to cleanse to the action of the steam in the boiler. The clothes in the machine will be agitated by the oscillating-frame M and arms M', the clothes resting on the balls will be easily moved, and the balls keeping them off of the diaphragm in a measure, they will not prevent the entrance of the steam through the holes therein. The revolution of the arms in a diagonal plane will constantly bring those at the bottom towards the top, and thus cause a more thorough agitation of the clothes, and cause them to be more rapidly cleansed.

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

A washing-machine, combining in its construction the following elements, viz: A boiler, A, and steam-pipe, D, a case, E, with perforated partitions F and G, an oscillating-frame, M, with arms M', said frame being attached diagonally to the shaft L, and receiving motion from the arm I' and bevel-wheels I and K and the balls N, said several parts being arranged substantially as described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

LEVI H. WHITNEY.

Witnesses:

D. P. HOLLOWAY,  
EDM. F. BROWN.