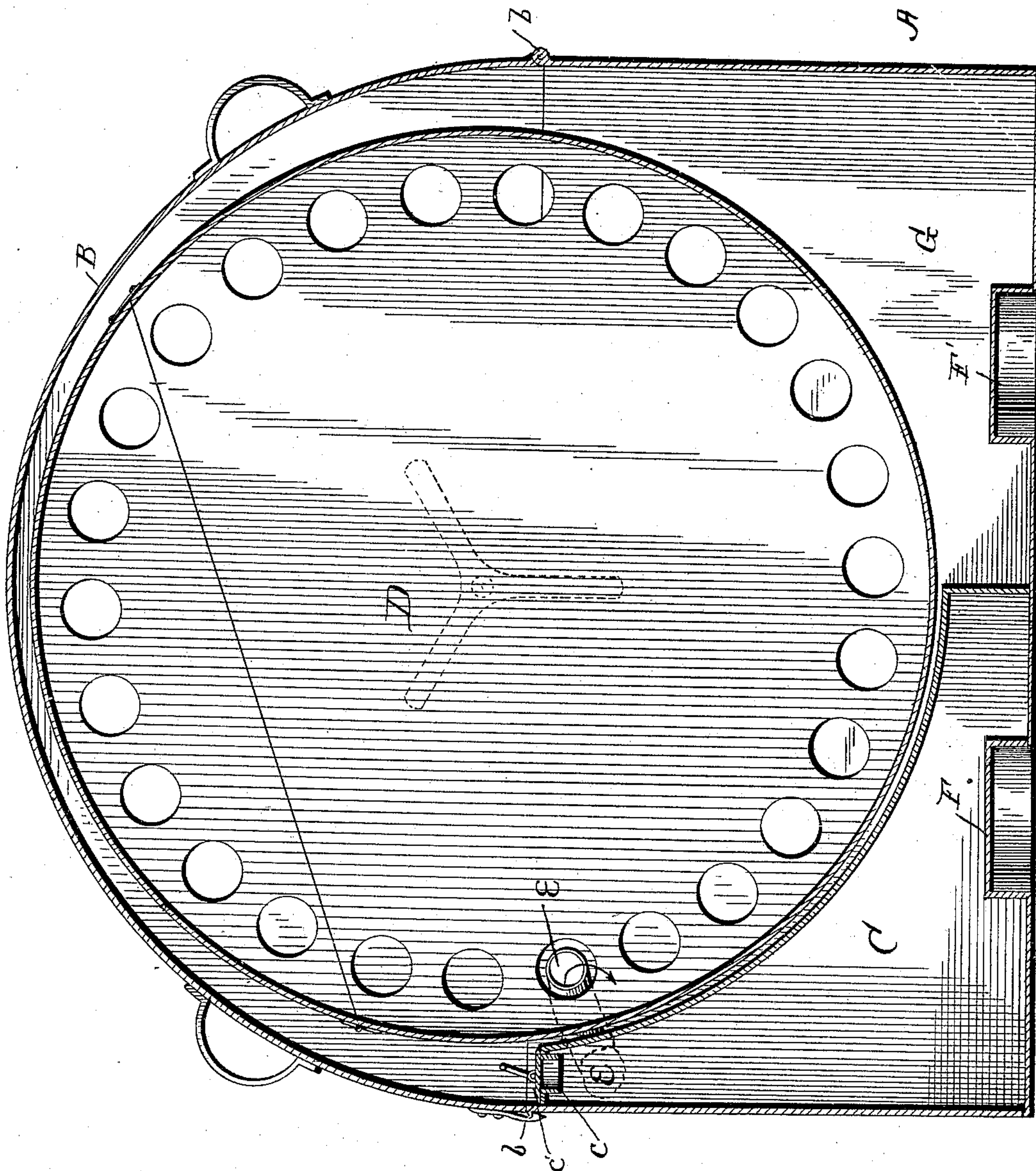


(No Model.)

H. T. WILSON.  
WASHING MACHINE.

No. 370,584.

Patented Sept. 27, 1887.



Witnesses  
Frank L. Oirand  
Chas. H. Bates

Inventor  
Homer T. Wilson  
By his Attorney  
H. J. Egan



# UNITED STATES PATENT OFFICE.

HOMER T. WILSON, OF LEXINGTON, KENTUCKY.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 370,584, dated September 27, 1887.

Application filed January 8, 1887. Serial No. 223,807. (No model.)

*To all whom it may concern:*

Be it known that I, HOMER T. WILSON, a citizen of the United States, residing at Lexington, in the county of Fayette and State of Kentucky, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in wash-boilers, and has for its object the thorough washing of clothes, which are placed in a revolving drum having a series of holes formed in a circle around the heads or ends of the drum, in connection with a water-tank and receptacle for receiving the condensed water from the drum, said tank and chamber being provided with heaters for heating the water.

To this end the invention consists in the combination and arrangement of the several parts, as will be hereinafter more particularly described, and specifically pointed out in the claim.

In the accompanying drawing, to which reference is had, and which fully illustrates my invention, the figure represents an end elevation in cross-section.

The letter A represents the lower portion of a boiler containing the water, and B is the upper portion or cover, hinged to the lower portion by means of hinges *b*. The lower portion, A, of this boiler is provided with a tank, C, the top or upper portion of which is curved to conform with a revolving cylinder or drum, D, which is inclosed within the boiler-sections A B, the shaft of which has its bearings in the ends of the boiler. The upper part of the tank C, which is curved to conform to the drum, terminates in a small opening, *c*, provided with a cover, *c'*, for pouring the water into the tank C when the cover or upper section, B, of the boiler is raised. This tank C has leading therefrom a pipe, E, by which means the steam generated by the heated water in the tank is supplied to the drum D. The end of said pipe, as the drum revolves, comes nearly within the holes in the drum,

and as each hole comes in alignment with the pipe, steam is admitted continually into the drum, and the clothes are thereby thoroughly saturated and washed. The water from which the steam is generated is heated within the tank C by means of heater F, the heater F' being located in the adjoining chamber, G, for reheating the water, which is condensed after it has run through the holes in the drum into the chamber G.

The drum D is provided with a hinged lid, by opening which the clothes may be introduced and withdrawn, a suitable clasp being provided by which the lid may be held shut during the rotation of the drum.

The operation of my boiler is as follows: The water from which the steam is generated is poured in the tank through the small opening in the extreme upper end of the tank, the cover or the upper section of the boiler being first raised up to allow of access to the opening in the tank. After a sufficient quantity of water is poured in, it is then heated by the heater in the bottom of the tank, and the steam arising therefrom is conducted through the pipe. As the drum is revolved and the holes come in alignment with the end of the pipe, the steam is received within the drum, and, coming in contact with the clothes, saturates completely through and thoroughly washes them. The water which is condensed from the steam in the drum passes out of the openings in the end of the drum and is received in the adjoining chamber of the tank.

A small quantity of water may be poured in the side G of the tank at starting, to prevent overheating of the parts. This chamber G acts as a drip-chamber for the steam condensed during the washing operation. By means of its interiorly-expanded bottom it has a large heating-surface, and the water is kept at a high temperature, entering the holes in the drum-head when they come below its level and agitating and cleansing the clothes. During the earlier stages of the washing steam will be rapidly generated in this chamber, which, in its effort to escape, will violently agitate the clothes.

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

In a steam-washer, the combination of a rotative drum provided with circumferential

perforations, a tank under said drum having  
its bottom interiorly expanded where it is ex-  
posed to the source of heat, a water-reservoir  
at one side of the tank partially surrounding  
5 the drum, a steam-conduit extending from the  
water-reservoir having one extremity opening  
in the path of the perforations, a drip-cham-  
ber for the condensed steam, and a lid to the

tank, whereby the drum may be completely  
inclosed, as and for the purpose set forth. 10

In testimony whereof I affix my signature in  
presence of two witnesses.

HOMER T. WILSON.

Witnesses:

W. F. WARREN,  
C. H. BERRYMAN.