

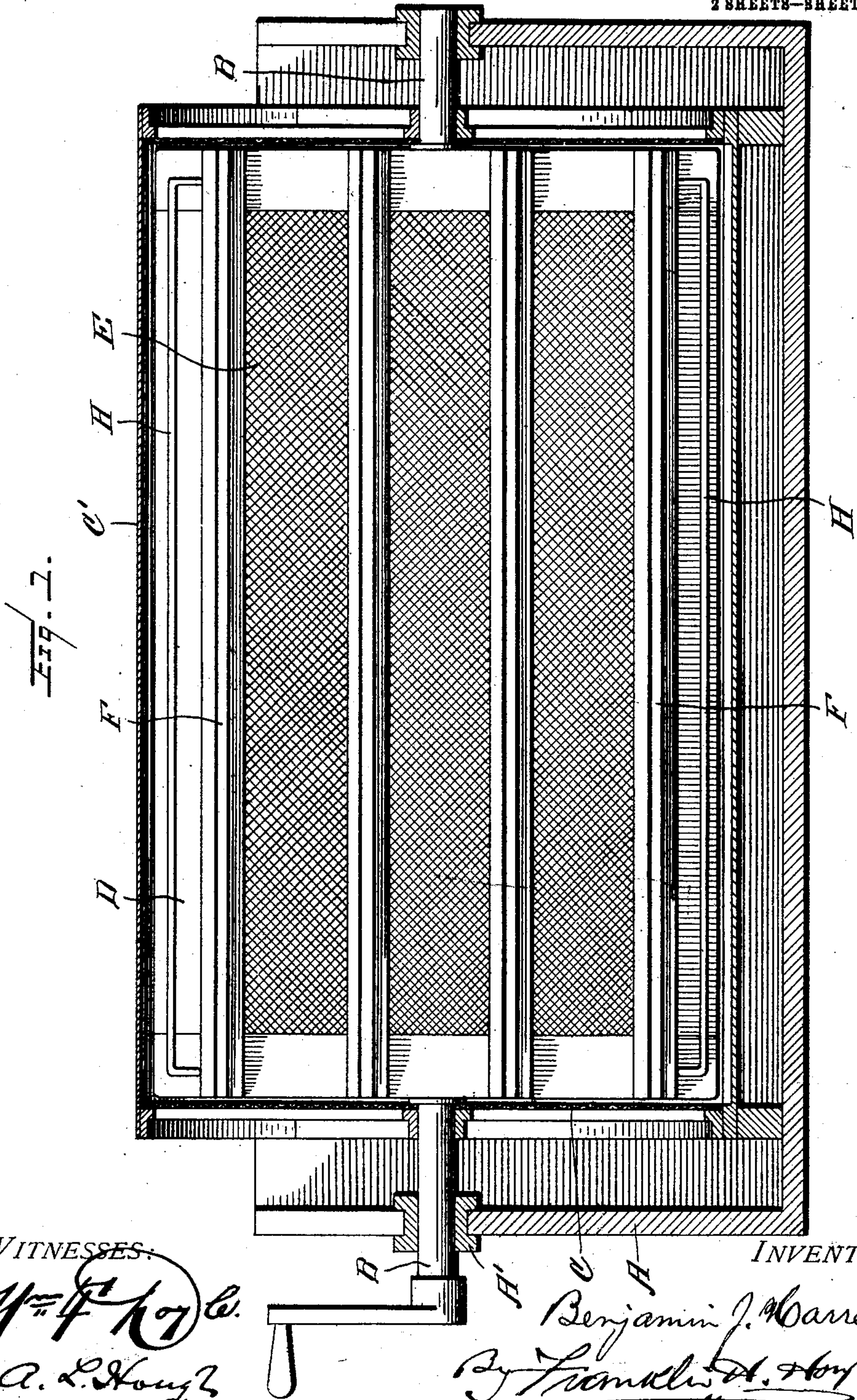
B. J. HARRELL.
WASHING MACHINE.

APPLICATION FILED MAR. 27, 1909.

924,776.

Patented June 15, 1909.

2 SHEETS—SHEET 1.

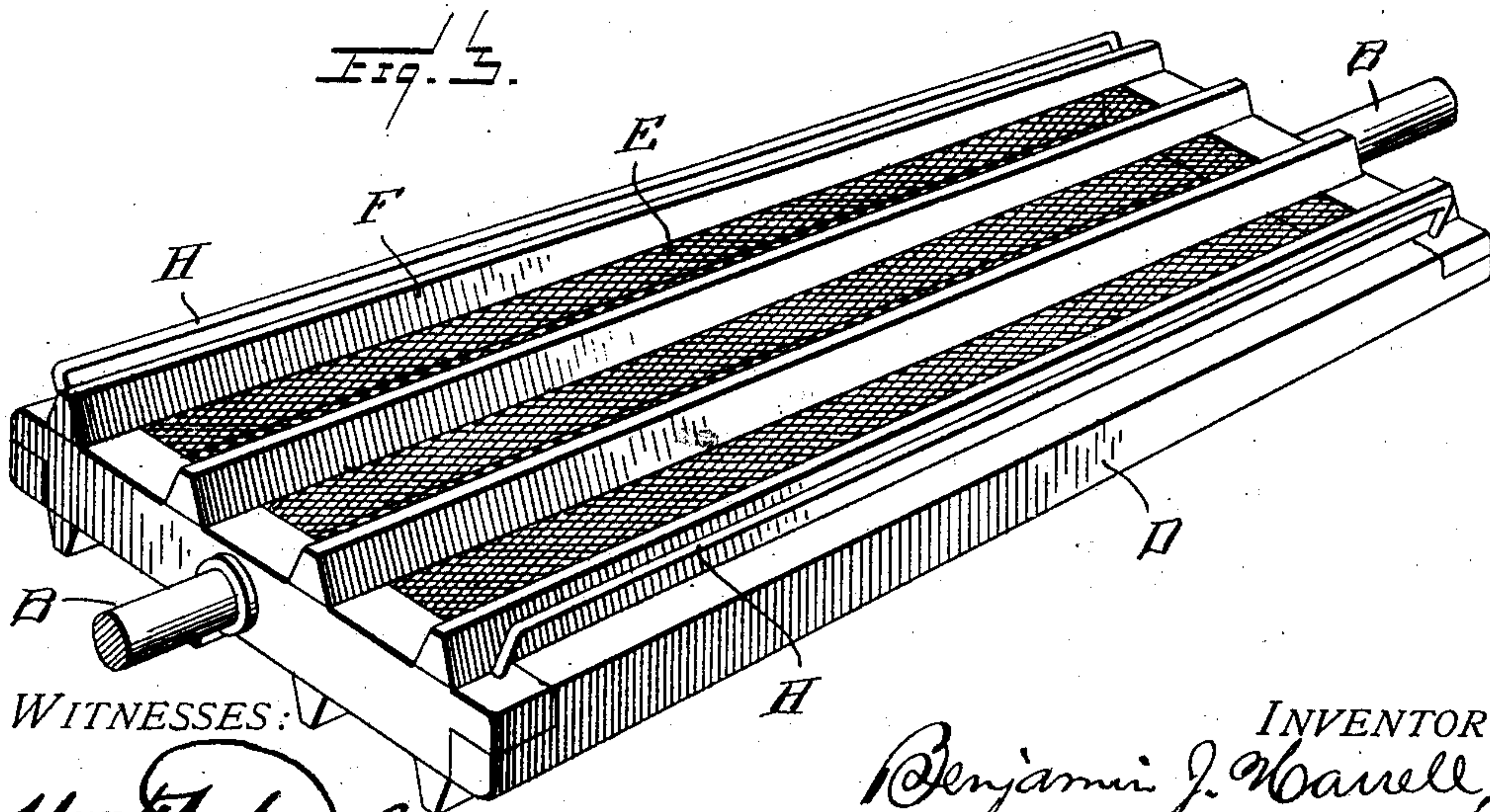
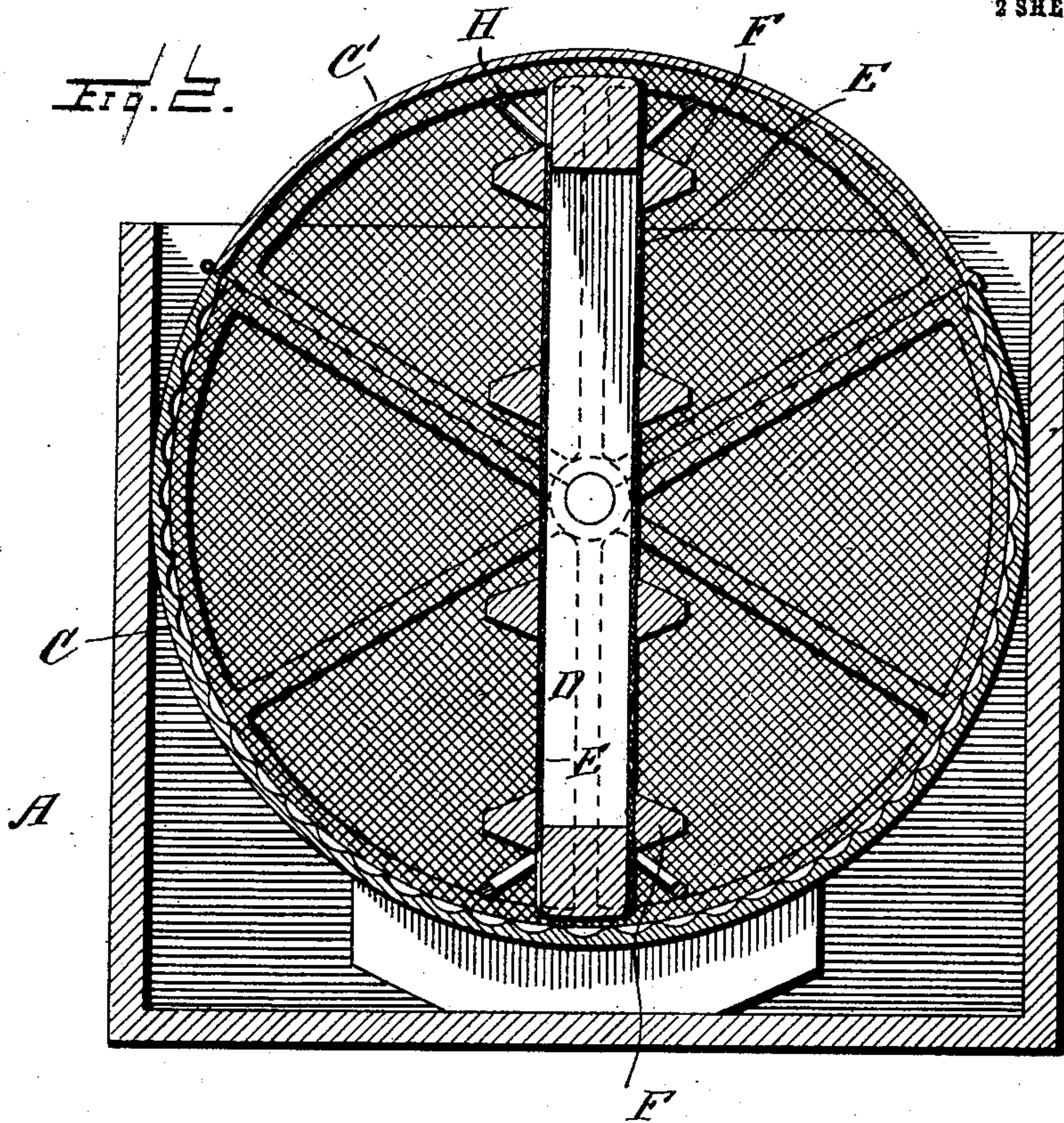


B. J. HARRELL.
 WASHING MACHINE.
 APPLICATION FILED MAR. 27, 1909.

924,776.

Patented June 15, 1909.

2 SHEETS—SHEET 2.



WITNESSES:

Wm. F. Hoyle
A. L. Hough

INVENTOR
Benjamin J. Harrell
 BY *Franklin H. Hough*
 Attorney

UNITED STATES PATENT OFFICE.

BENJAMIN JESSE HARRELL, OF EASTMAN, GEORGIA.

WASHING-MACHINE.

No. 924,776.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed March 27, 1909. Serial No. 486,211.

To all whom it may concern:

Be it known that I, BENJAMIN JESSE HARRELL, a citizen of the United States, residing at Eastman, in the county of Dodge and State of Georgia, have invented certain new and useful Improvements in Washing-Machines; and I do hereby 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 drawings, and to the letters of reference marks thereon, which form a part of this specification.

This invention relates to new and useful improvements in washing machines and comprises various details of construction, combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a vertical sectional view through the apparatus. Fig. 2 is a cross sectional view, and Fig. 3 is an enlarged detail view of the rotatable rubber.

Reference now being had to the details of the drawings by letter, A designates a boiler which may be of any size or shape and made preferably of metal and having bearings A' in the end walls thereof for the reception of the stub shafts B of the rubber.

C designates a drum having a ribbed wall forming a rubbing surface and also a hinged lid C' which is made preferably of galvanized iron. The ends of the drum are preferably of open mesh work of wire in order to allow the water to pass freely therethrough. Said stub shafts pass through suitable bearings in the ends of the drum and form means for supporting the latter stationary within the boiler. The rubber comprises a rectangular frame D in the ends of which are fixed said stub shafts, and E, E designate sheets of wire netting which are fastened to the opposite edges of the frame.

F designate ribs which are fastened at their ends to the end pieces of the frame of the rubber and spaced apart.

Rods H are fastened at their ends to the ends of said rubber and positioned a slight distance from the marginal edges of the

rubber and are provided for the purpose of preventing the clothes within the boiler hanging and aiding in lifting the clothes from the bottom of the cylinder as the rubber rotates. Said screen netting sheets also serve as a means to prevent the hanging of the clothes upon said ribs as the rubber rotates.

In operation, the cylinder is placed within the boiler in the manner shown and is adapted to remain stationary while the rubber is journaled in the ends of the boiler and forms means for supporting the cylinder. By rotating the rubber, the clothes to be cleansed are caused to roll over the ribs or the rubber and against the ribbed wall of the cylinder, causing the necessary friction or rubbing action while the water is allowed to freely circulate through the open wire mesh work ends of the cylinder.

By the construction shown, the cylinder and rubber may be conveniently removed from the boiler when desired.

What I claim to be new is:—

1. A washing machine comprising a boiler, a cylinder positioned therein, a rubber having stub shafts at the ends thereof passing through the ends of the cylinder and journaled in the walls of the boiler, said rubber having longitudinal ribs spaced apart, sheets of wire netting spaced apart, rods secured to the rubber and spaced apart slight distances from the opposite marginal edges thereof, as set forth.

2. A washing machine comprising a cylinder having a hinged lid and open mesh work wire ends, a rubber having stub shafts passing through the ends of the drum and adapted to support the latter and designed to be journaled in the end walls of a boiler, sheets of wire netting fastened to the opposite faces of the rubber and spaced apart, longitudinal ribs fastened to the netting and spaced apart, rods having angled ends fastened to said rubber adjacent to its opposite longitudinal edges and spaced apart therefrom, as set forth.

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

BENJAMIN JESSE HARRELL.

Witnesses:

W. L. HARRELL,
GEO. D. BENNETT.