

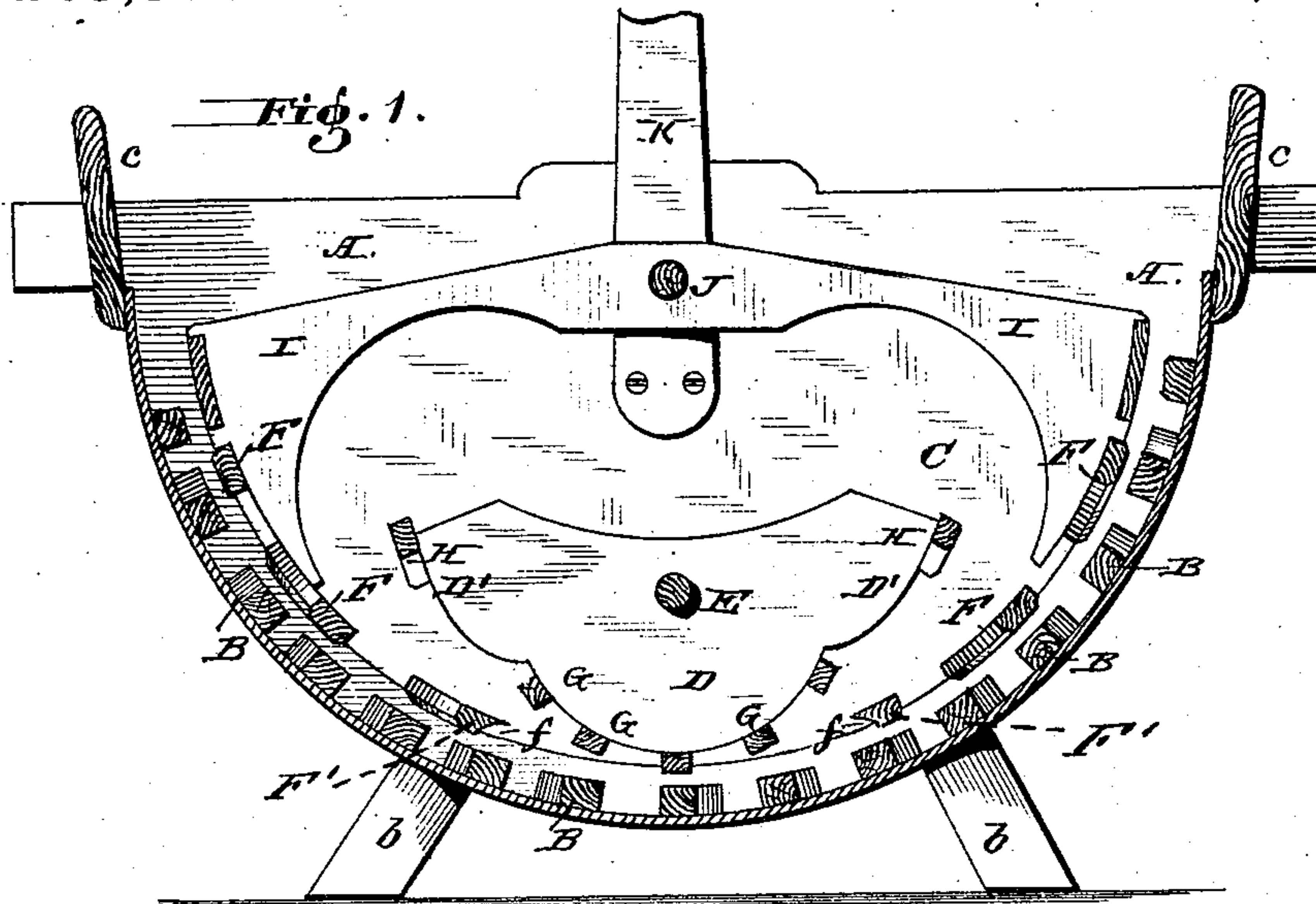
(Model.)

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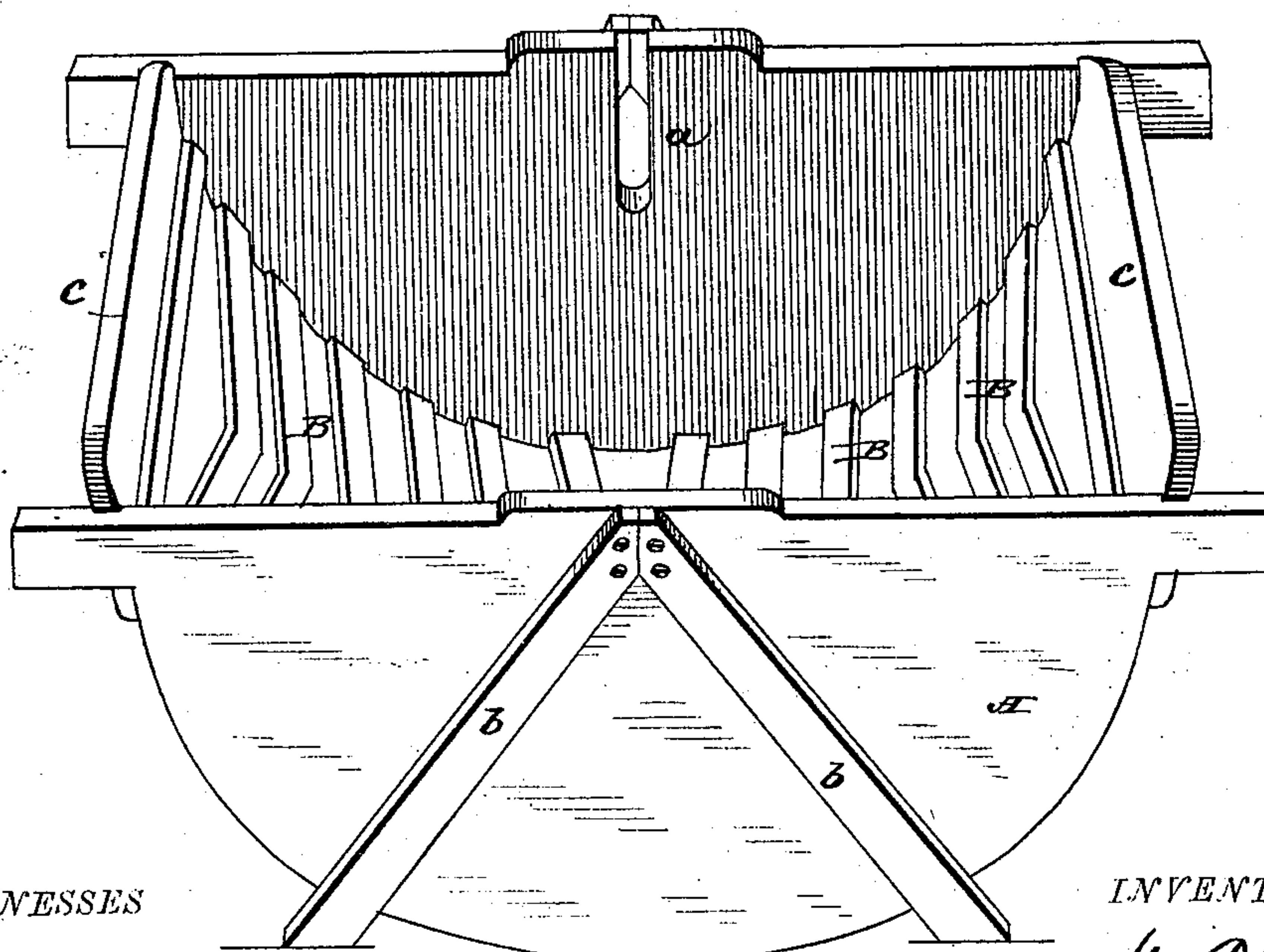
J. M. CHAMPE.  
Washing Machine.

**No. 243,360.**

**Patented June 28, 1881.**



*Fig. 2.*



*WITNESSES*

INVENTOR

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Am. Long.

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Louis Bagger & Co James M. Champe

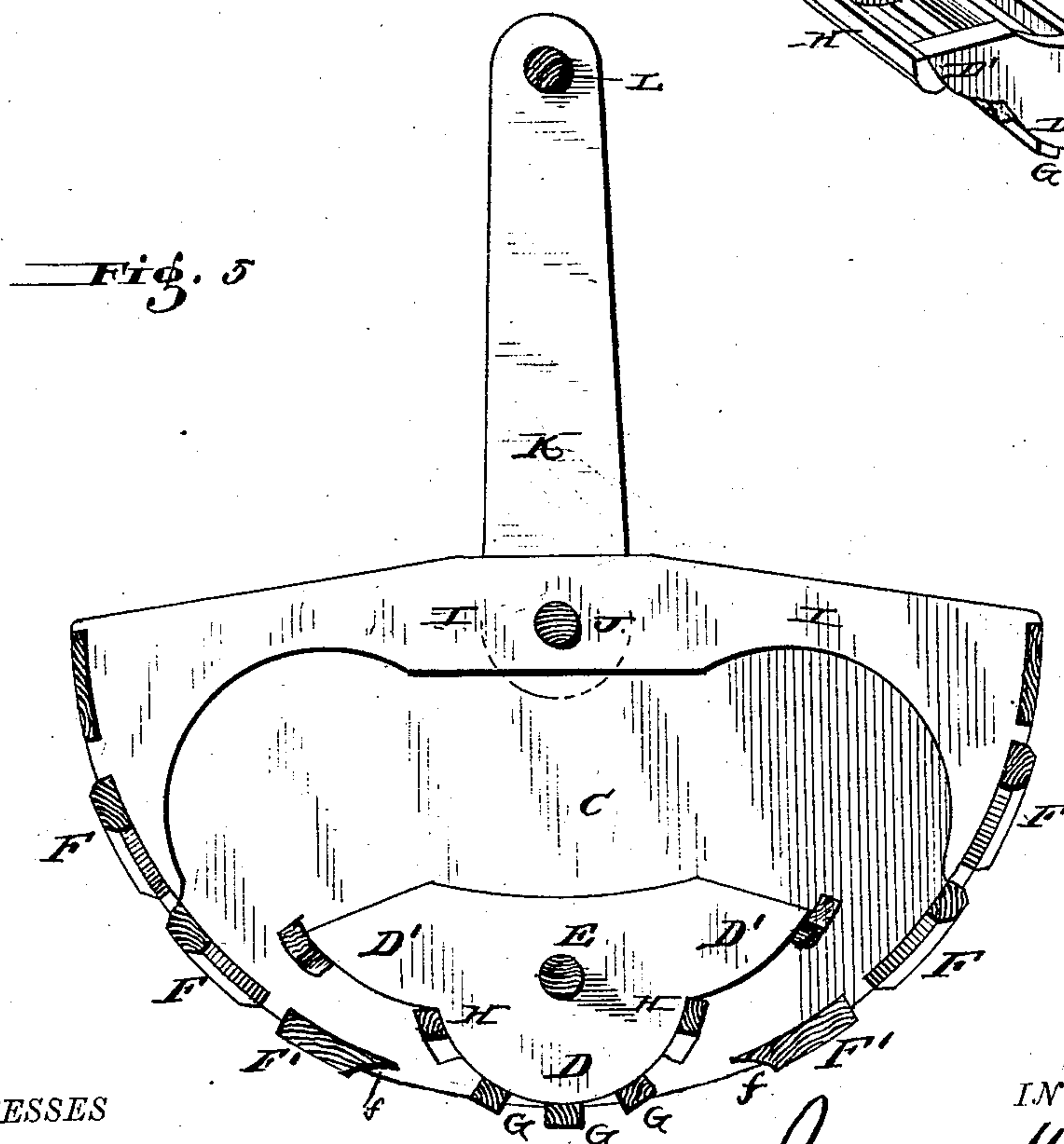
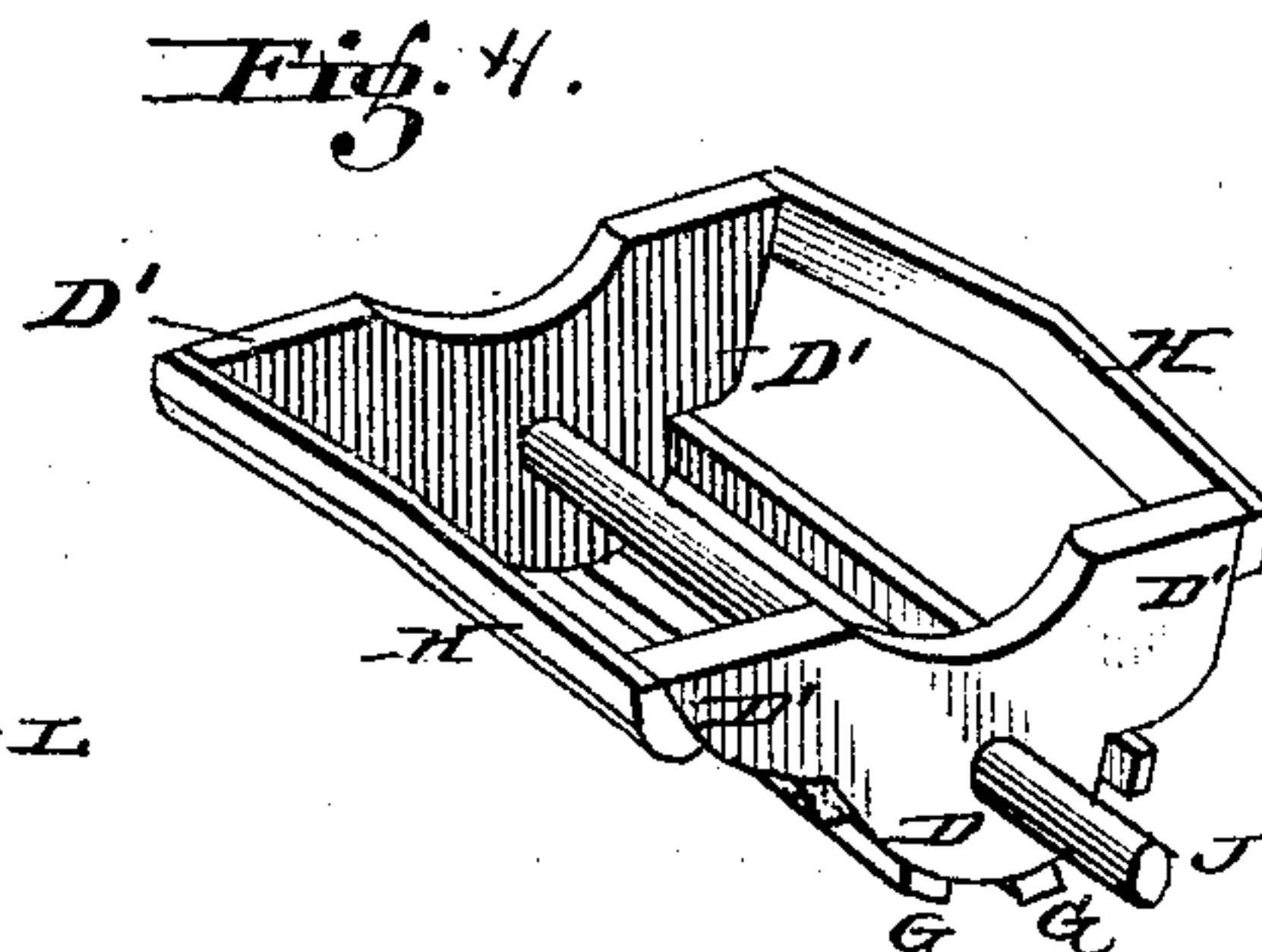
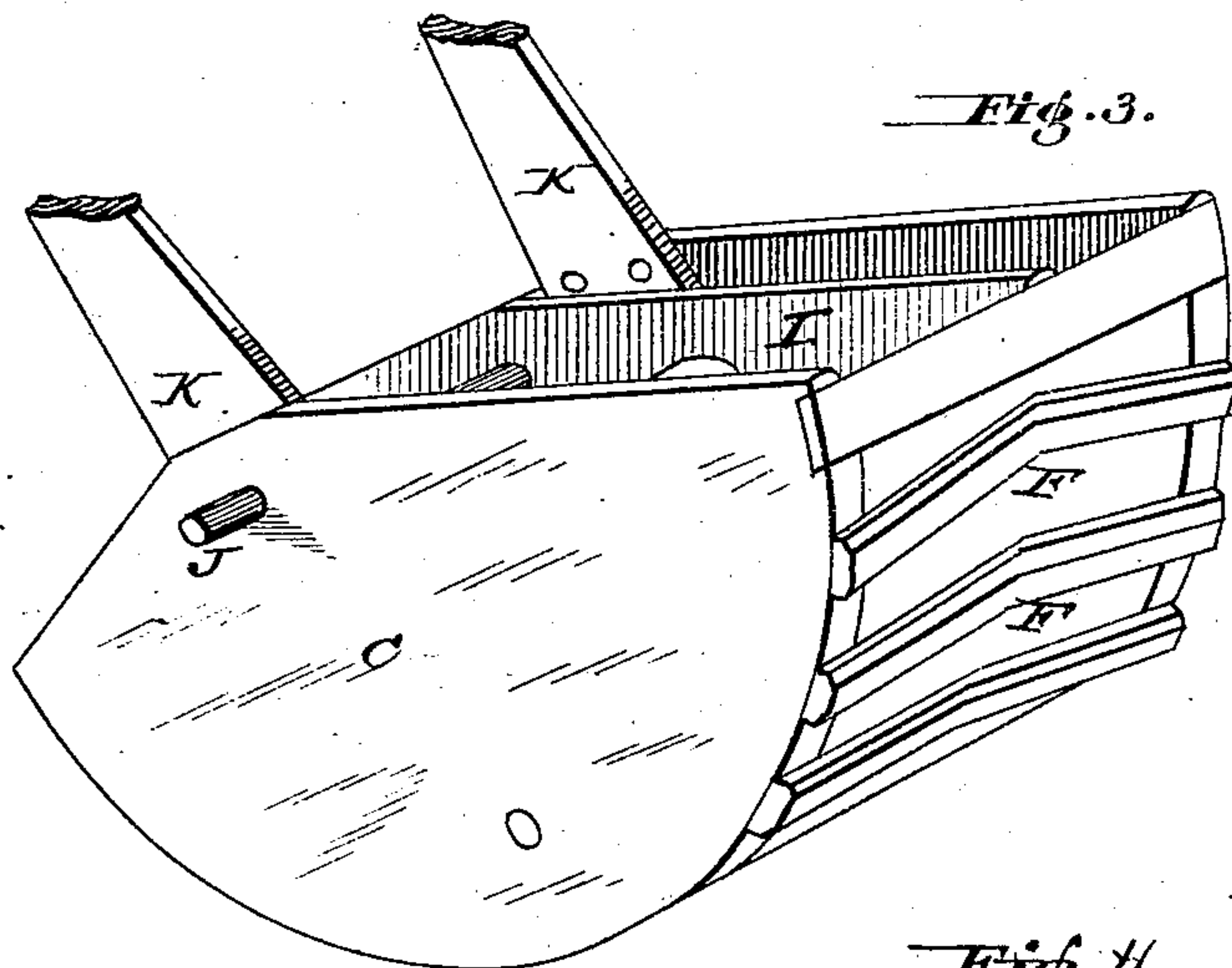
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Fred. G. Dietrich;  
 Adm. Long,

By *His* Attorneys

*Louis Bagger & Co.*

INVENTOR

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James M. Champe.



# UNITED STATES PATENT OFFICE.

JAMES M. CHAMPE, OF AURORA, NEBRASKA.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 243,360, dated June 28, 1881.

Application filed March 11, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, JAMES M. CHAMPE, of Aurora, in the county of Hamilton and State of Nebraska, have invented certain new and useful  
5 Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings,  
10 which form a part of this specification, and in which—

Figure 1 is a longitudinal vertical section of the complete machine. Fig. 2 is a perspective  
15 inside view of the tub or receptacle. Fig. 3 is a perspective (bottom) view of the reciprocating rubber. Fig. 4 is a perspective view of the inside rubber or rocker, &c.; and Fig. 5 is a longitudinal section of the compound rubber detached.  
20

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to washing-machines of the class known as "reciprocating  
25 rubbers;" and it consists in an improved construction and arrangement of parts, as hereinafter set forth, and particularly pointed out in the claims.

In the accompanying drawings, A designates  
30 the tub or clothes-receptacle, which is of the usual shape, and made, by preference, with a sheet-metal bottom. In each of the sides are bearings *a* for the rubber-shaft, and the tub is supported upon suitable legs, *b b*, and provided  
35 with the splash-boards *c c*, one at each end, to prevent the water and suds in the tub from splashing out on the floor or wetting the operator.

By reference to Fig. 2 of the drawings it will  
40 be seen that the ribs in tub A are made square in cross-section, and bent midway to form an angle, instead of being straight and beveled, as usual. Drawing a line transversely through the middle of the tub, the slats or ribs B on  
45 one side of this are set with their points or middle bent part pointing against the bottom, and those opposite are arranged in like manner, the bent part or middle of the two bottom slats, which face each other, being cut partially  
50 away to leave a narrow channel or space between of a gradually-increasing width at both ends.

My improved rubber or rocker is a compound rubber composed of two parts—viz., an outer rubber, C, and an inside auxiliary rubber, D, 55 which is pivoted upon a shaft, E, inserted transversely through the outer rubber. The slats of this outer or main rubber, with the exception of the topmost slat at each end, are also bent, as shown at F in Fig. 3, but beveled and 60 set with their bent part in a direction opposite to that of the ribs B in tub A, which they respectively face. There are no fixed slats or ribs in the bottom of rubber C, and the lowermost slat at each end (denoted by F') is made 65 straight along its inner (lower) edge, and cut out to form a semicircular recess, *f*, for the purpose hereinafter set forth.

The inside rubber is of a peculiar shape, as will be observed by reference to Figs. 4 and 5. 70 Its side pieces, D, are cut to form wings or extensions D' on both sides, and the lower rounded part of sides D are connected by straight slats G. Another straight slat is placed in each of the corners between the rounded parts 75 D and wings D', and the wings D' of opposite sides are connected by bent slats H, constructed like slats F of the outer rubber. The motion of the inside rubber is controlled by the recessed slats F' F' in the outer rubber, which 80 has a longitudinal brace, I, shaft J, and arms K K, connected at their upper ends by a cross-bar, L, which forms a convenient handle.

From the foregoing description, taken in connection with the drawings, the operation of my 85 improved washing-machine will readily be understood.

The small auxiliary rubber will, in working the machine, move in a direction opposite to that of the larger rubber, within which it is inserted, 90 and as on every backward-and-forward motion of the rubber the bottom slats, G, of the inside rubber will clamp part of the clothes between themselves and the contiguous fixed slats F' of rubber C, (the recesses *f* of which make room 95 for the clothes to project into,) these (the clothes) will be drawn forward and back over the ribs in the tub and subjected to a thorough rubbing, without merely rolling them forward and back from one end of the tub to the 100 other.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The compound rubber composed of an  
outer or main rubber having sides C and bent  
side slats, F F', open bottom, and inside piv-  
5 oted auxiliary rubber having sides D D' and  
slats G H, constructed and combined to oper-  
ate substantially as and for the purpose shown  
and set forth.

2. The combination of the tub or receptacle  
A, having bent ribs B, arranged as described,  
10 rubber C, having an open bottom, and slats F  
F', bent in a direction opposite to that of their  
contiguous fixed slats B, and inside auxiliary

rubber composed of the sides D D', straight  
bottom slats, G, and bent end slats, H, sub-  
stantially as and for the purpose herein shown 15  
and specified.

In testimony that I claim the foregoing as  
my own I have hereto affixed my signature in  
presence of two witnesses.

JAMES MADISON CHAMPE.

Witnesses:

A. M. GLOVER,  
F. C. KENNET.