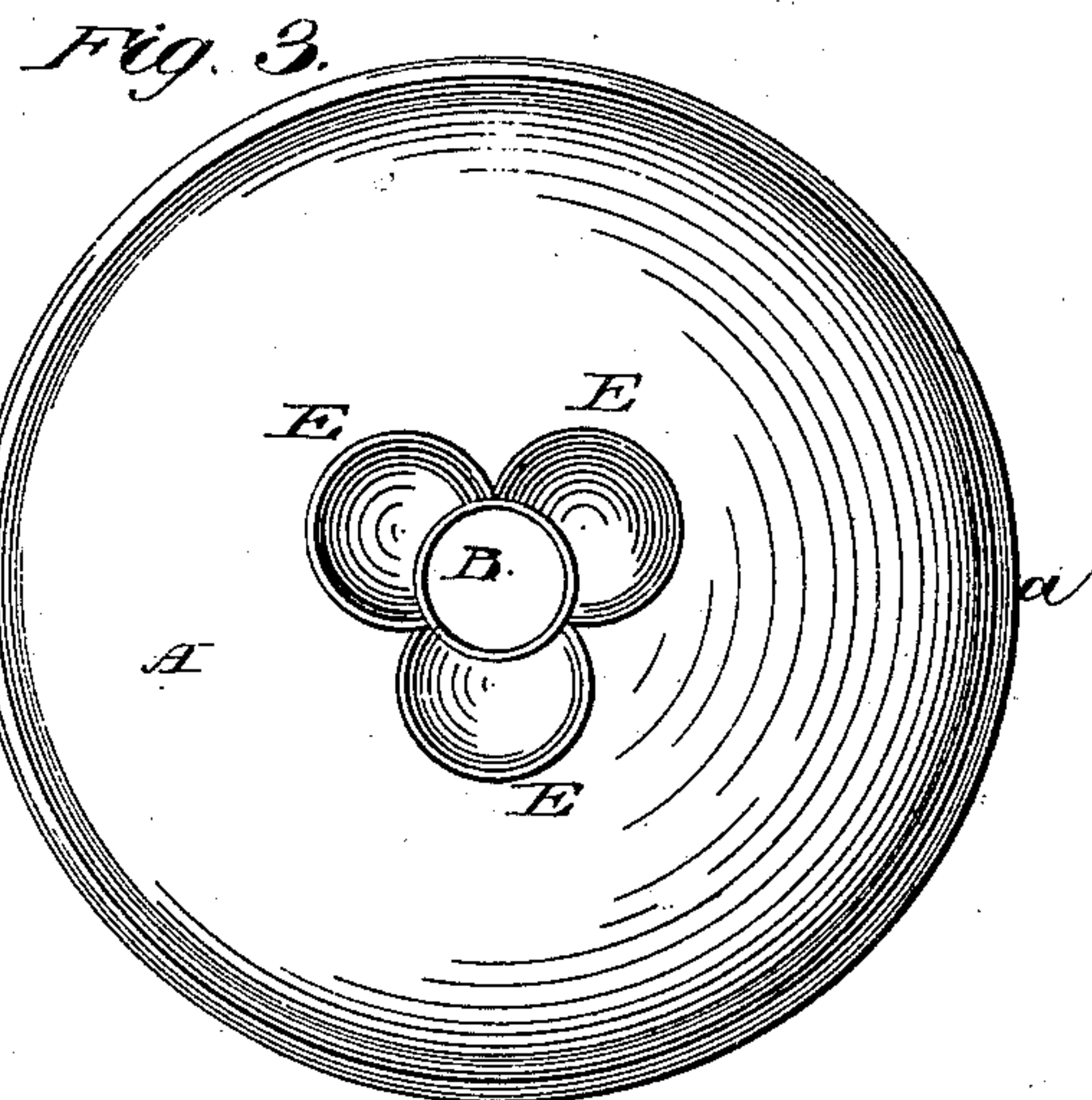
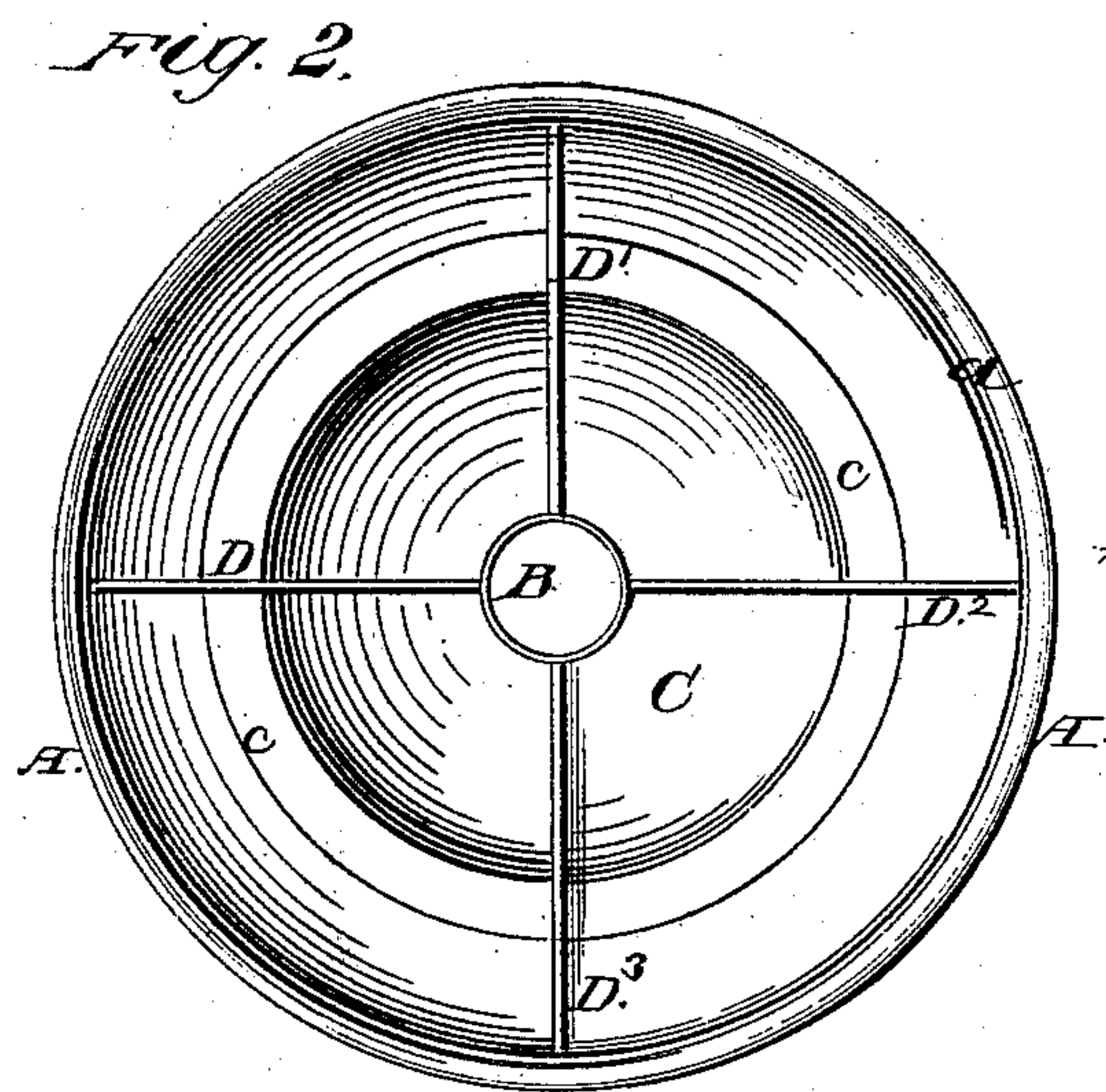
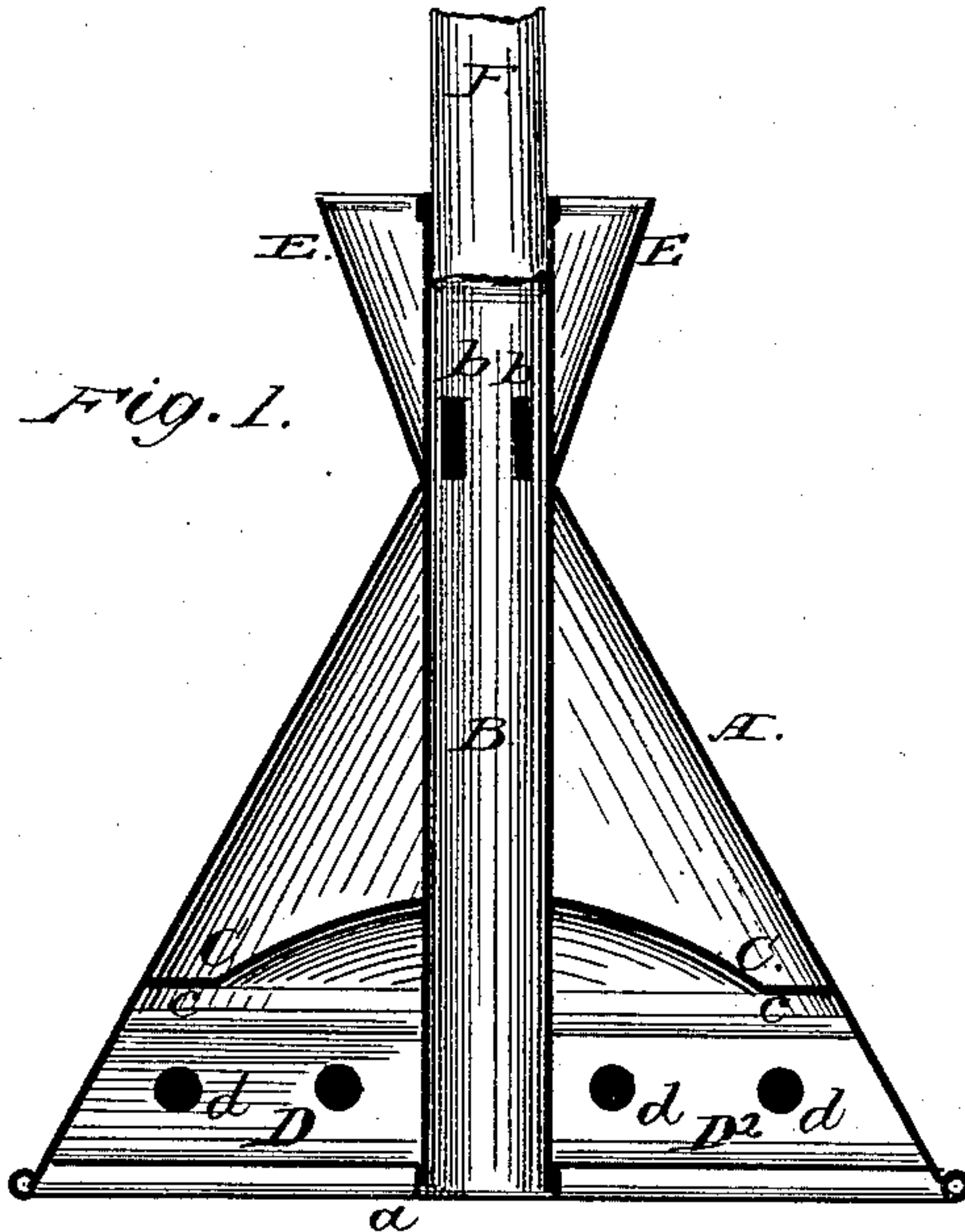


C. W. ROBINSON.  
Clothes-Pounders.

No. 221,362.

Patented Nov. 4, 1879.



Witnesses  
*Fred G. Dieterich*  
*Geo. A. Madigan*

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# UNITED STATES PATENT OFFICE.

CHARLES W. ROBINSON, OF BATTLE CREEK, MICHIGAN.

## IMPROVEMENT IN CLOTHES-POUNDERS.

Specification forming part of Letters Patent No. **221,362**, dated November 4, 1879; application filed July 26, 1879.

*To all whom it may concern:*

Be it known that I, CHARLES W. ROBINSON, of Battle Creek, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Clothes-Pounders; 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, which form a part of this specification, and in which—

Figure 1 is a vertical axial section. Fig. 2 is a bottom view; and Fig. 3 is a top view.

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

This invention relates to air-compressing clothes-pounders; and it consists in an improved construction and arrangement of parts, as hereinafter described, and particularly pointed out in the claims, the object of my said improvement being to produce an effective and easily-operated pounder, which will readily overcome the suction in withdrawing it from the water during the operation of pounding the clothes in washing.

In the drawings, A is the outer casing of my improved pounder, which is of the usual cone form, and has a central tube, B, inserted vertically through its apex, which said tube reaches down flush with the lower rim, *a*, of casing A.

C is an arched diaphragm, inserted horizontally in the casing A, and forming an airtight joint around the tube B, which penetrates it centrally. This horizontal arched partition or diaphragm C has a flat annular rim, *c*, the edge of which is soldered upon the inner wall of the conical casing.

D D' D<sup>2</sup> D<sup>3</sup> are vertical partitions, each having a series of holes, *d*, which said partitions are set, preferably, at right angles to each other, and reach from the lower part of the central tube, B, to the inner edge of the cone, just below the flat-rim *c* of the diaphragm C, so as to leave an open space between their upper edges and the central arched part of said diaphragm.

Tube B has a series of slots, *b*, a short distance below its upper end, each of which

opens up into a funnel, E, secured upon the outside of the tube, as shown on the drawings. Instead of three separate funnels, one for each opening *b*, as shown, a single larger funnel may be used encircling the central tube, B.

The operation of my improved clothes-pounder is as follows: A handle, F, having been inserted into the socket formed by the upper part of tube B above the perforations *b*, the pounder is reciprocated vertically up and down upon the clothes immersed in the water. The diaphragm C, being arched or raised in the middle, admits a large volume of air in the lower chamber of the pounder, which is compressed, and thus forces the water contained below the air-space evenly through all parts of the clothes covered by the pounder in its downward motion, this operation being facilitated by the perforated partitions D.

In lifting the pounder up above the surface of the water in the tub for a fresh supply of air it is readily disengaged from the clothes below, which will adhere to it on account of the suction or vacuum in the lower part of the pounder, by air entering into this chamber below diaphragm C from without through the funnels E, apertures *b*, and tube B, thus equalizing the air-pressure and causing the clothes to fall back into the tub. The funnels E serve to catch the air in lifting the pounder and force it into the central tube through its perforations *b*.

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

The improved clothes pounder herein shown and described, consisting of the outer cone or casing, A, arched diaphragm C, perforated partitions D, central tube, B, extending through the diaphragms to the base of the pounder, and having apertures *b* and exterior funnels, E, all constructed and arranged to operate substantially as and for the purpose set forth.

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

CHARLES W. ROBINSON.

Witnesses:

GEORGE H. ROBINSON,  
EMILY C. ROBINSON.