

J. R. ADAMS.

LAUNDRY IRON.

APPLICATION FILED OCT. 11, 1907.

952,295.

Patented Mar. 15, 1910.

3 SHEETS—SHEET 1.

FIG. 1

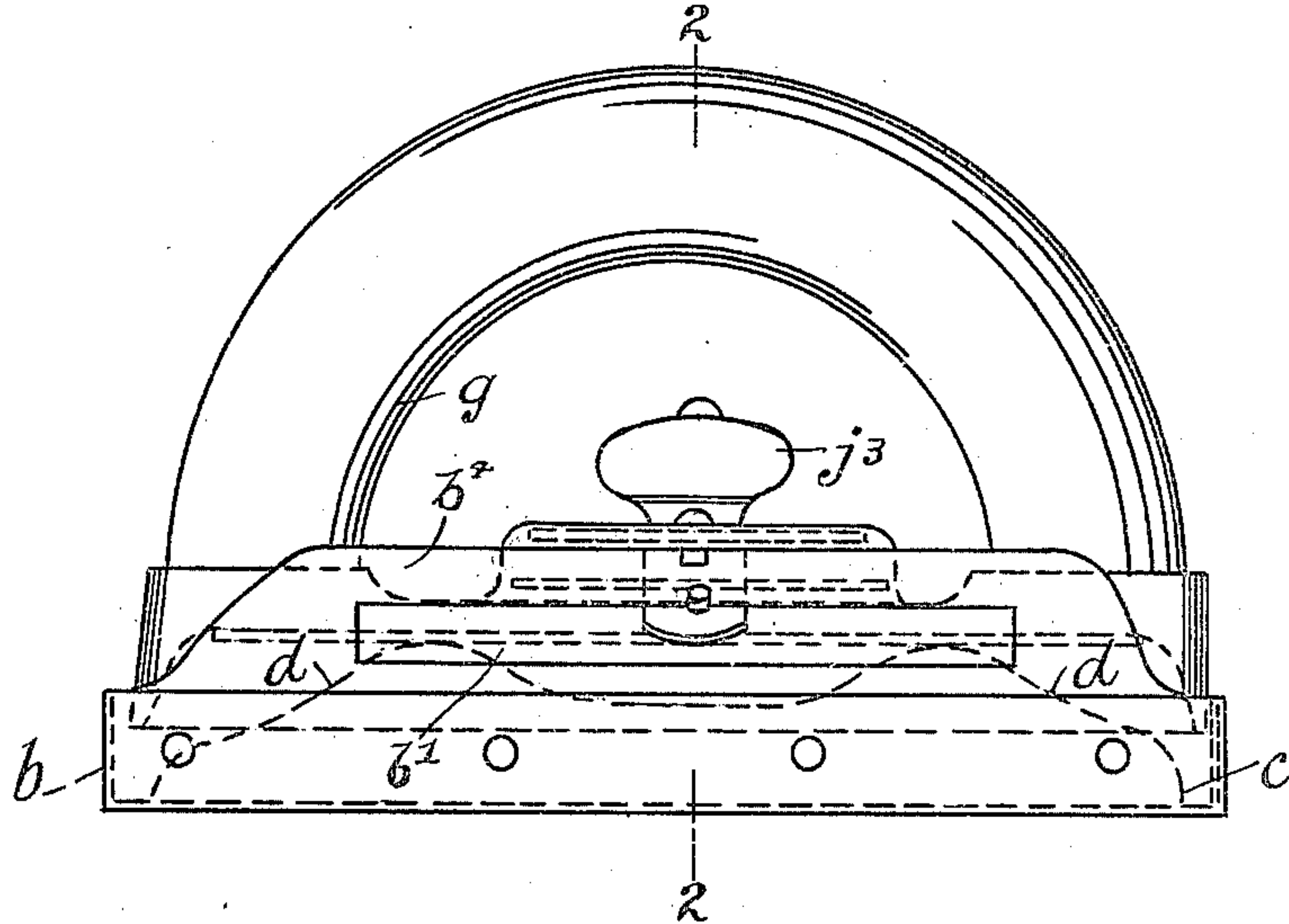
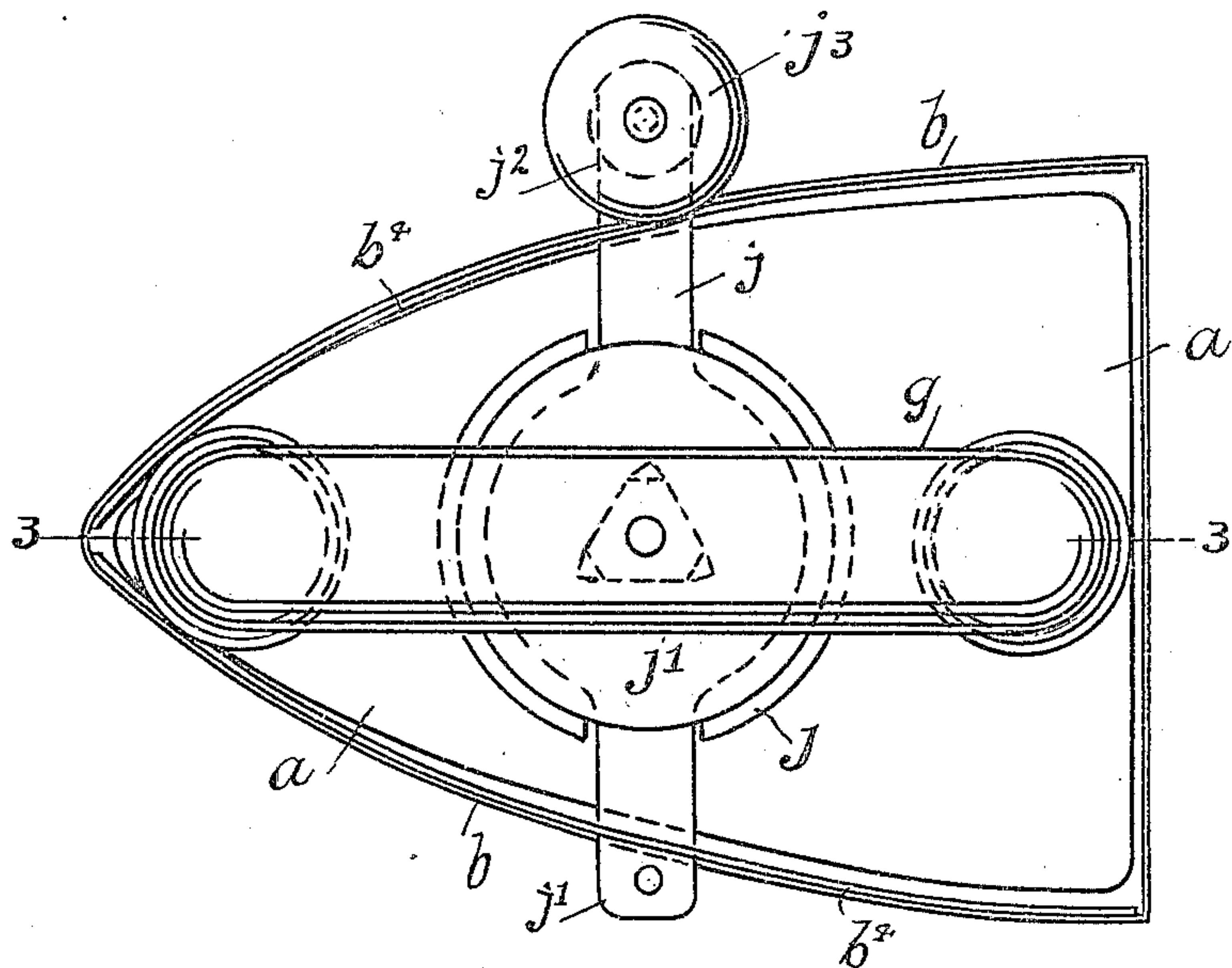


FIG. 2



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3 SHEETS—SHEET 2.

FIG. 3

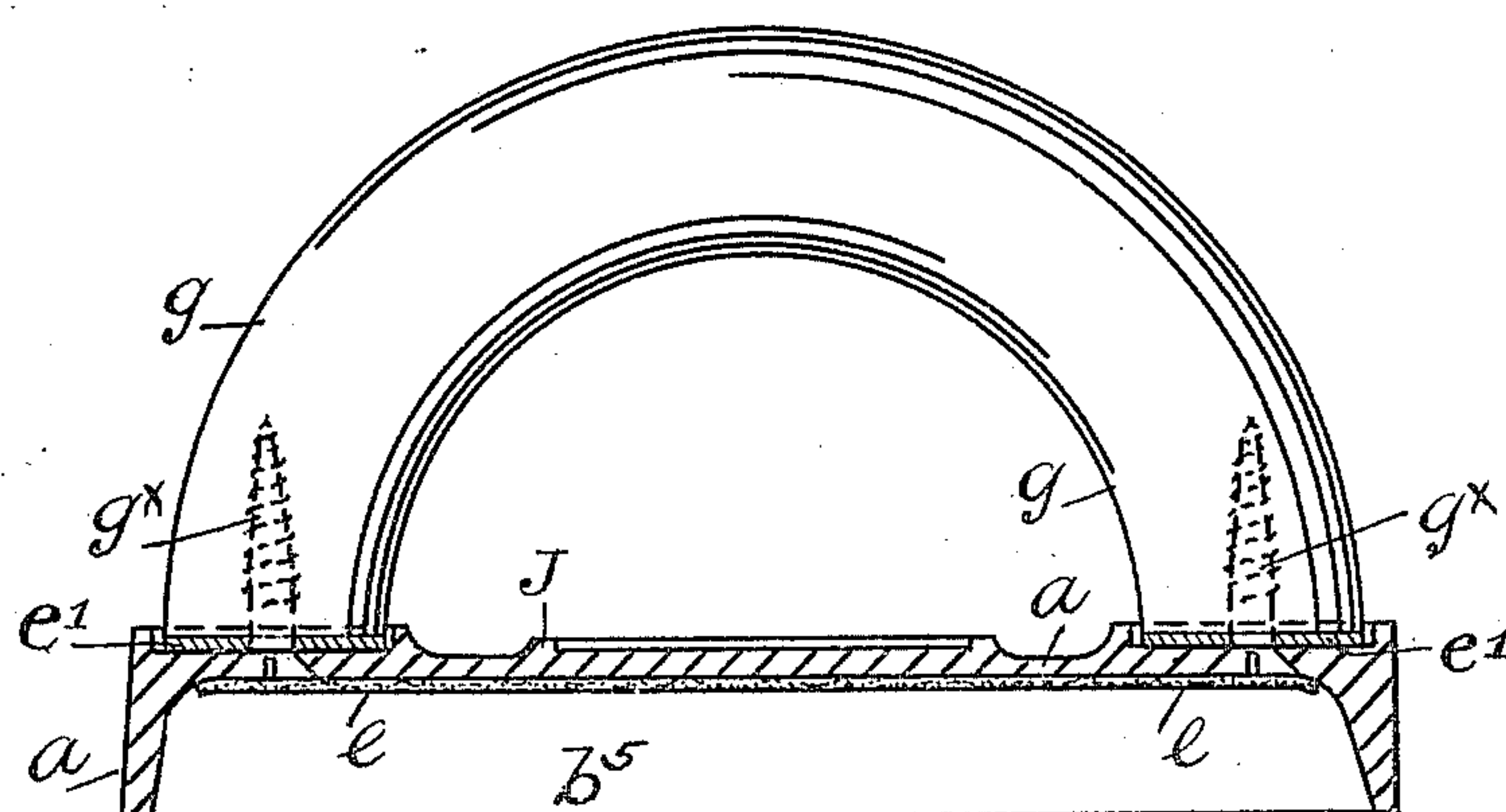


FIG. 4

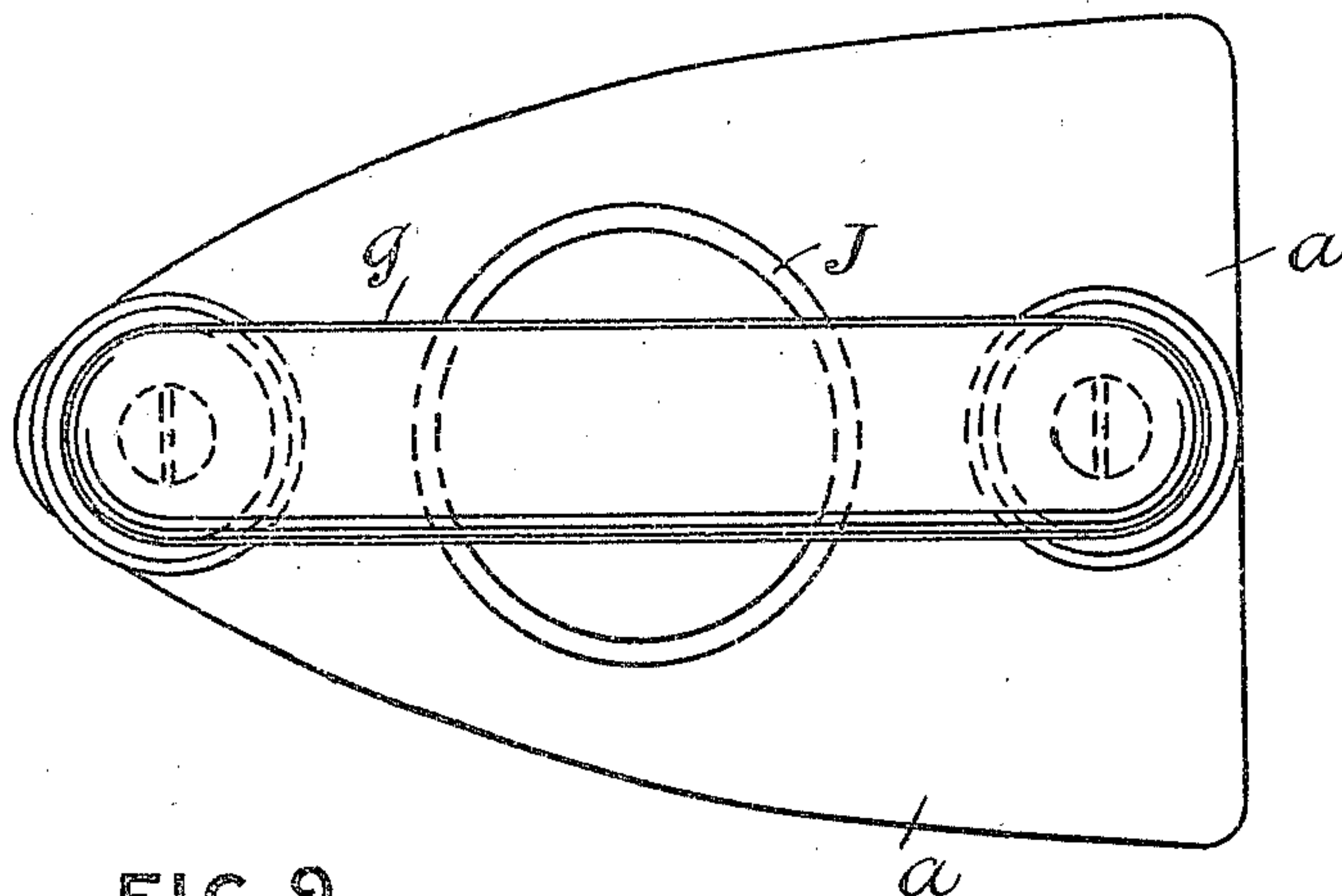


FIG. 9

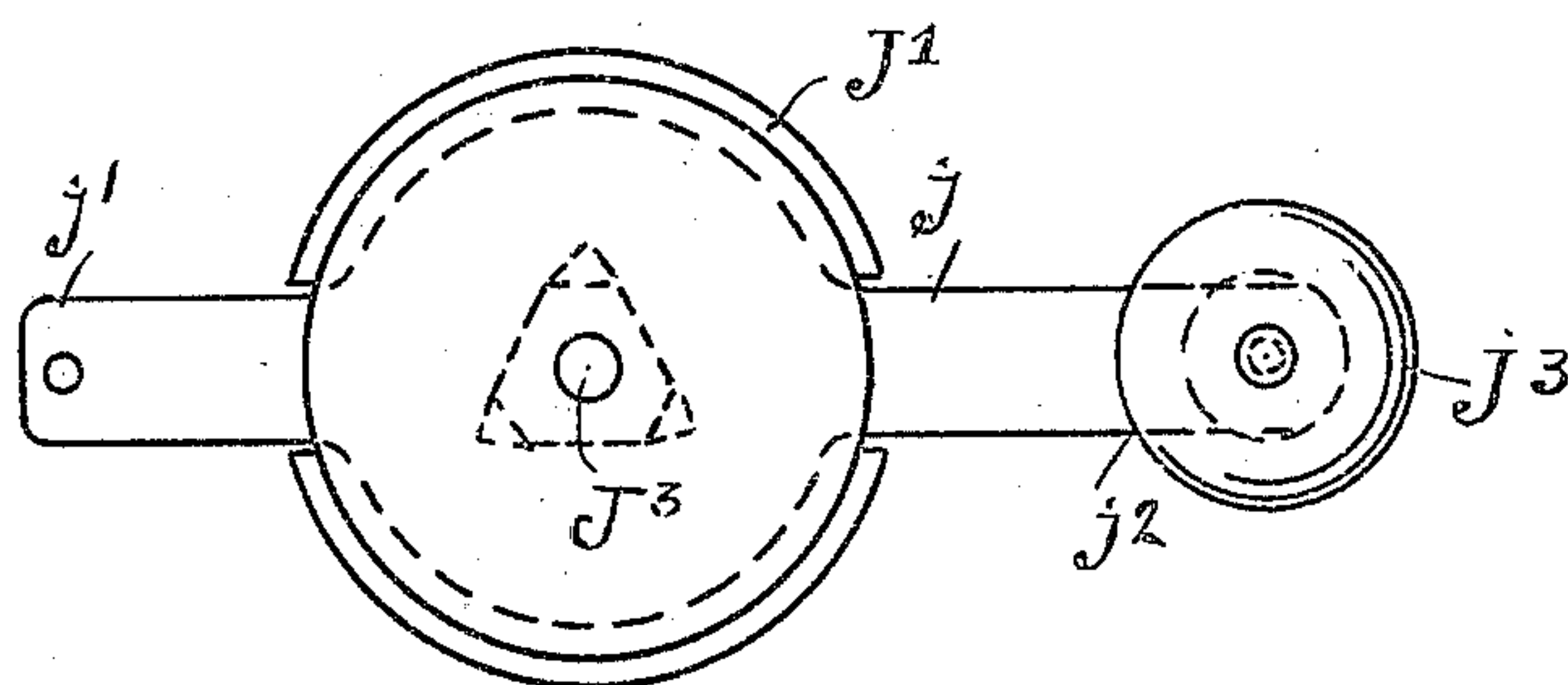


FIG. 11

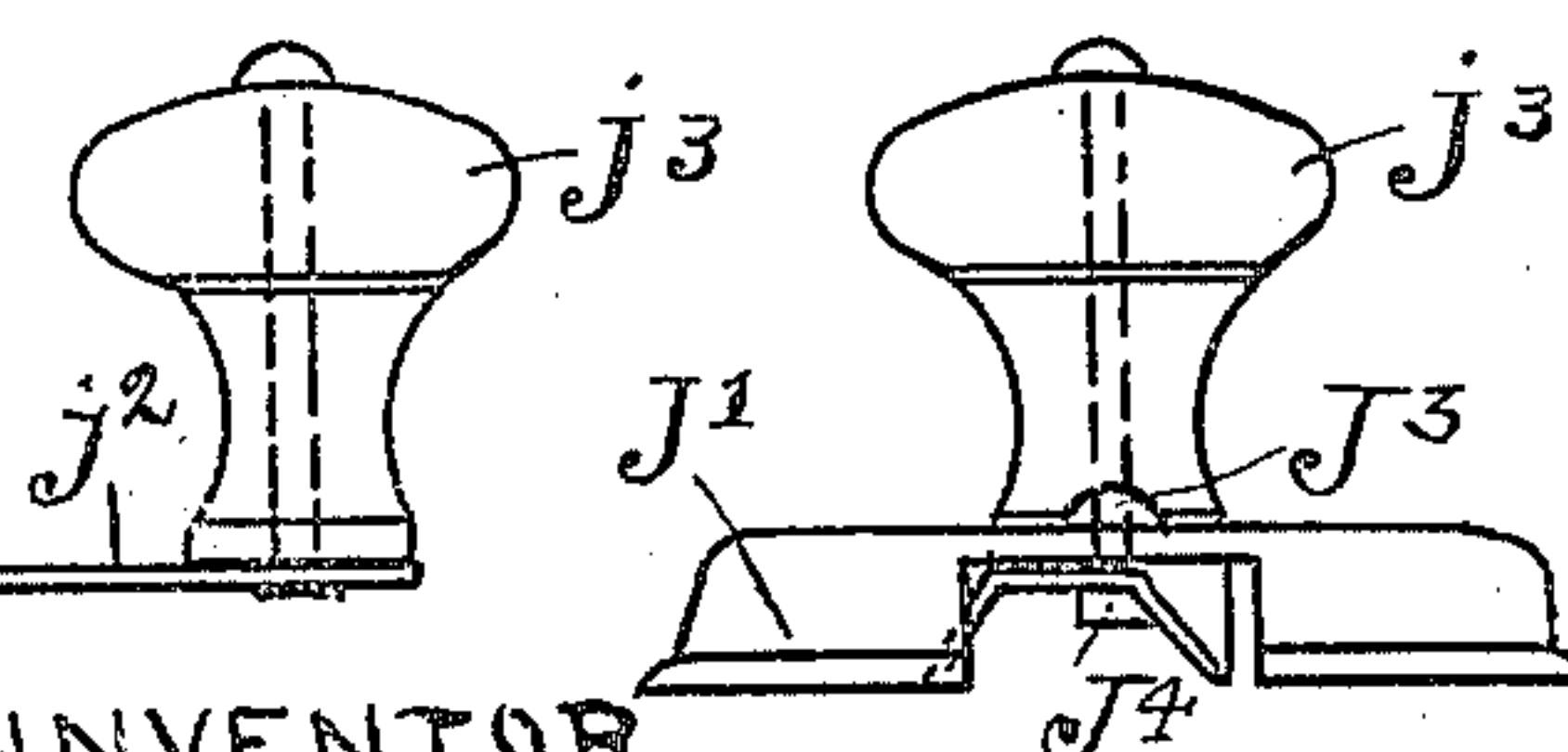
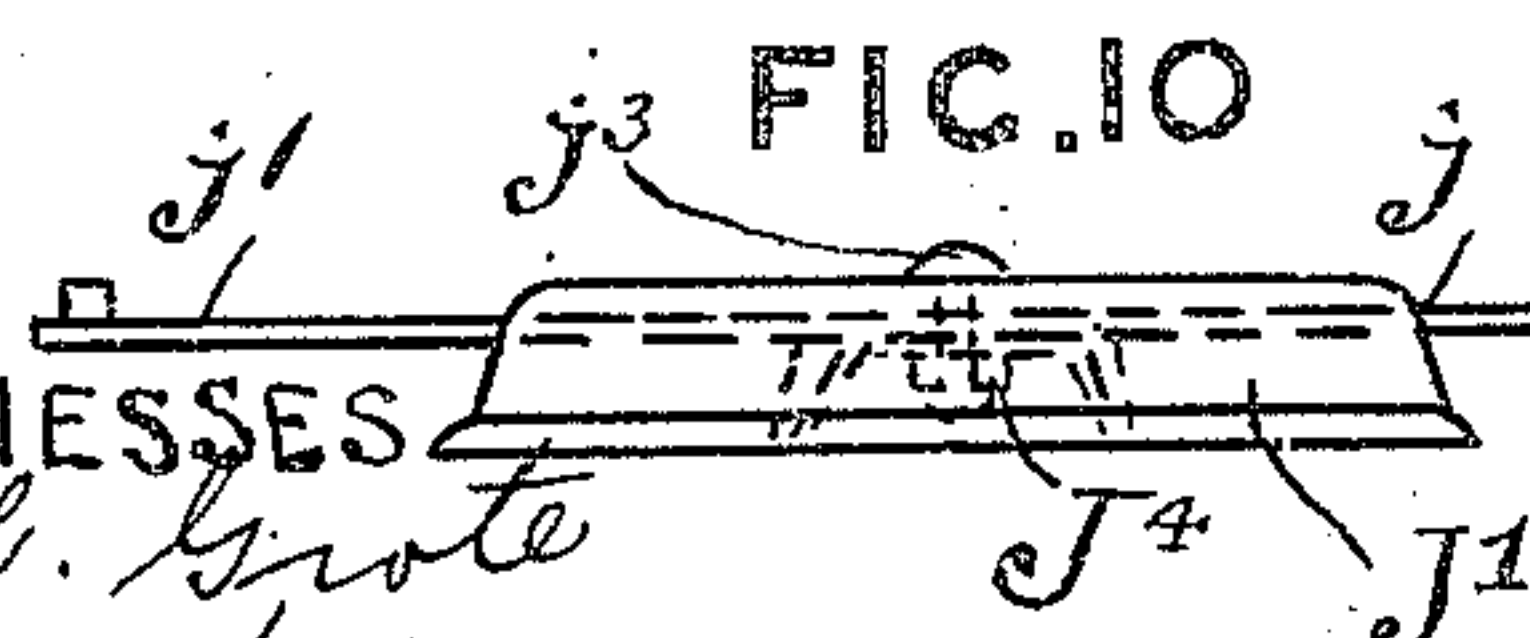


FIG. 10



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3 SHEETS—SHEET 3.

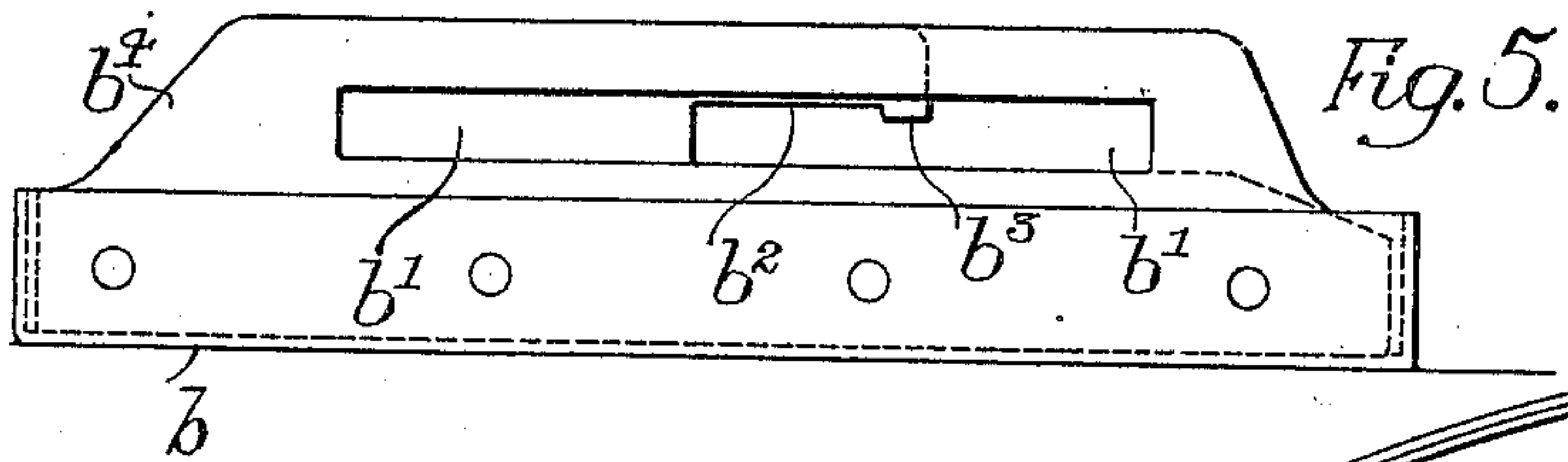


Fig. 5.

Fig. 6.

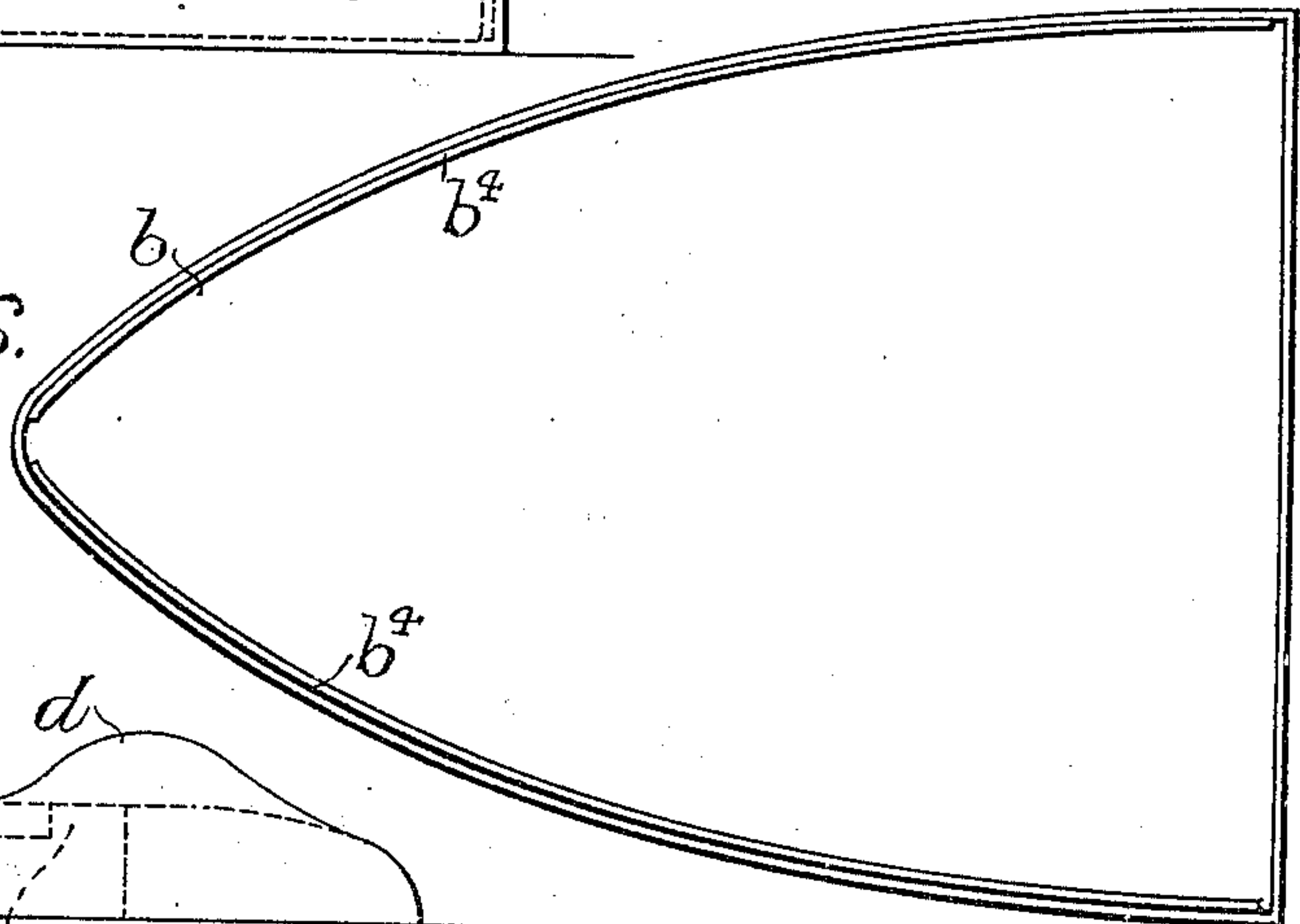


Fig. 7.

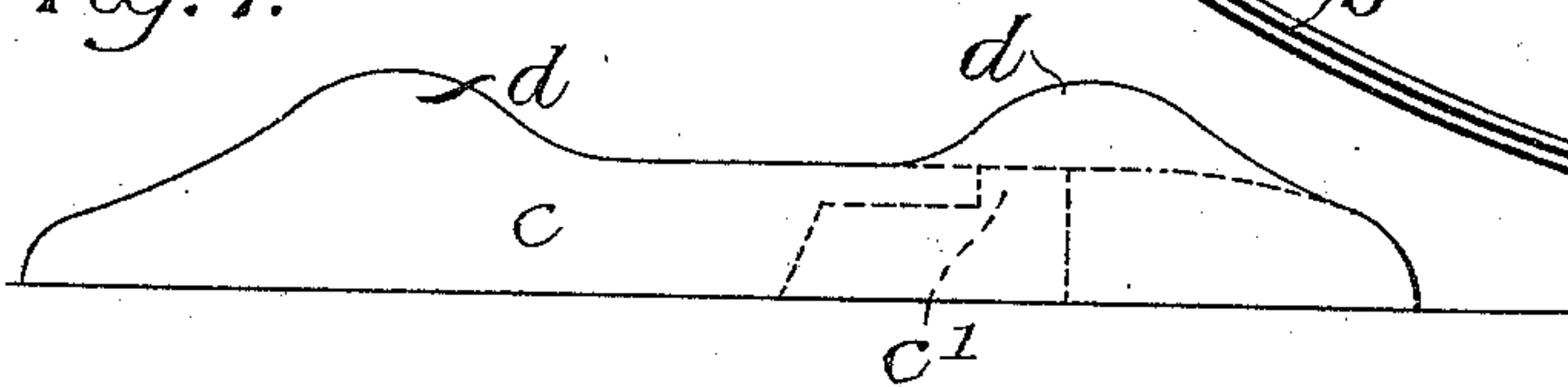


Fig. 8.

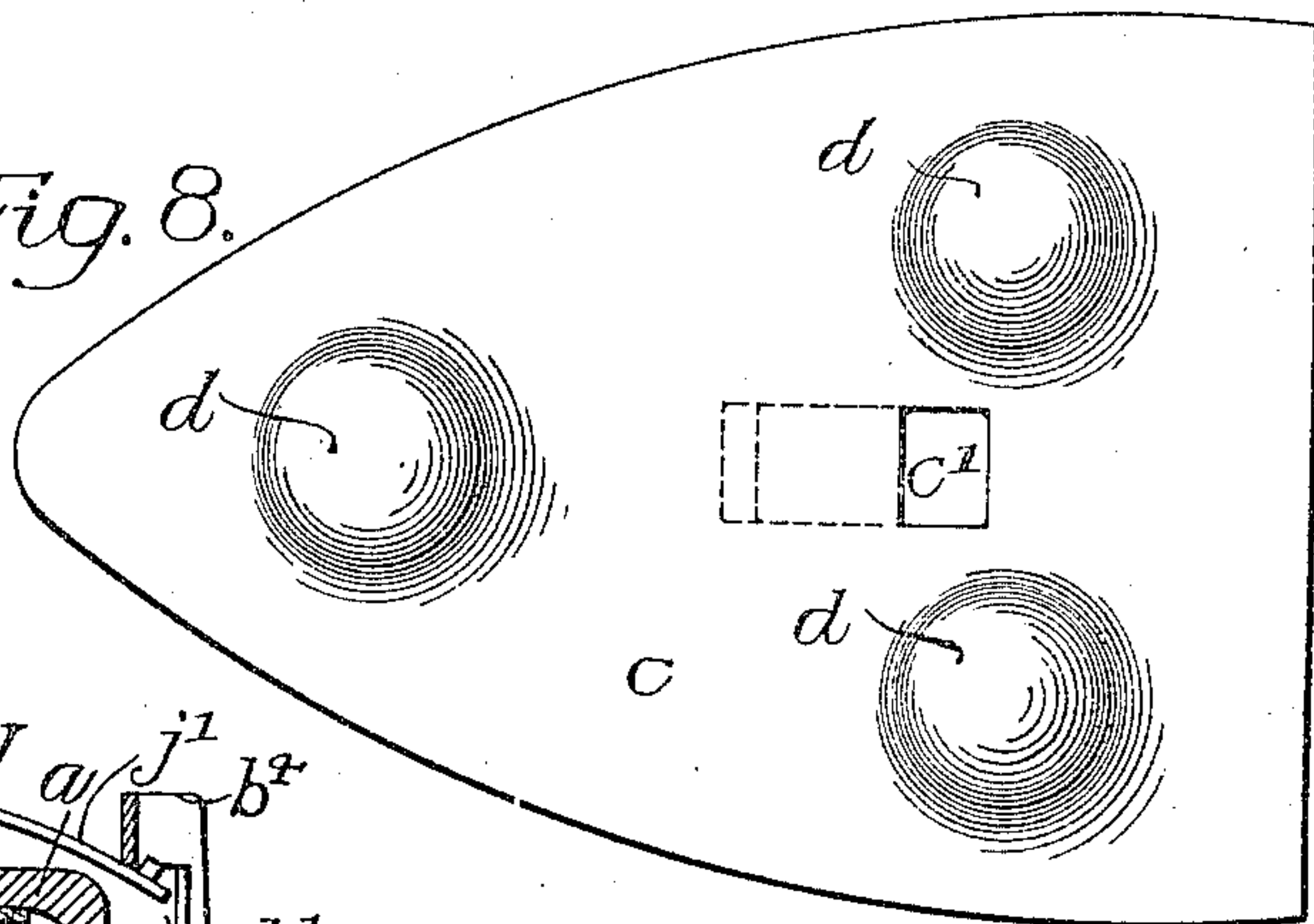


Fig. 12.

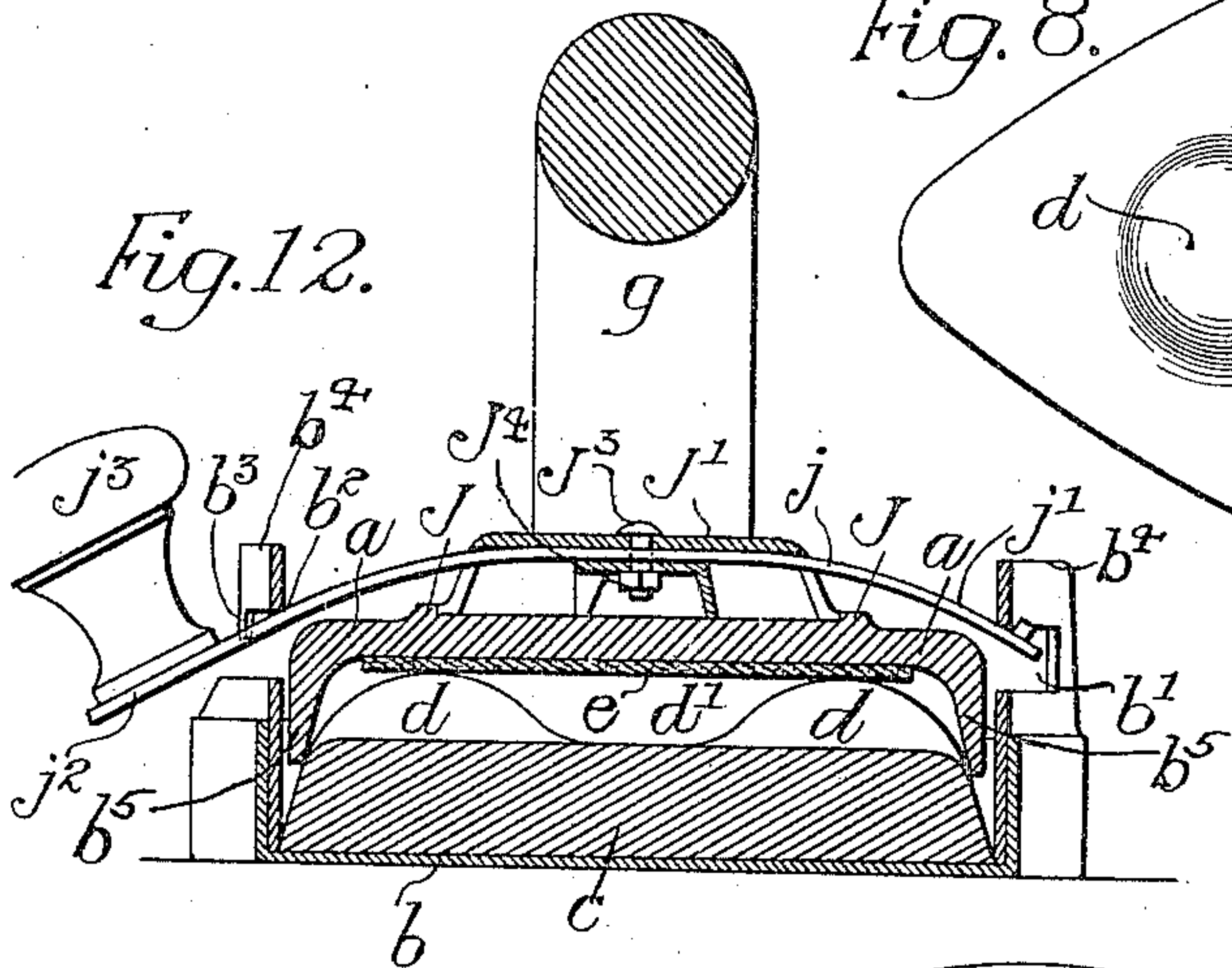
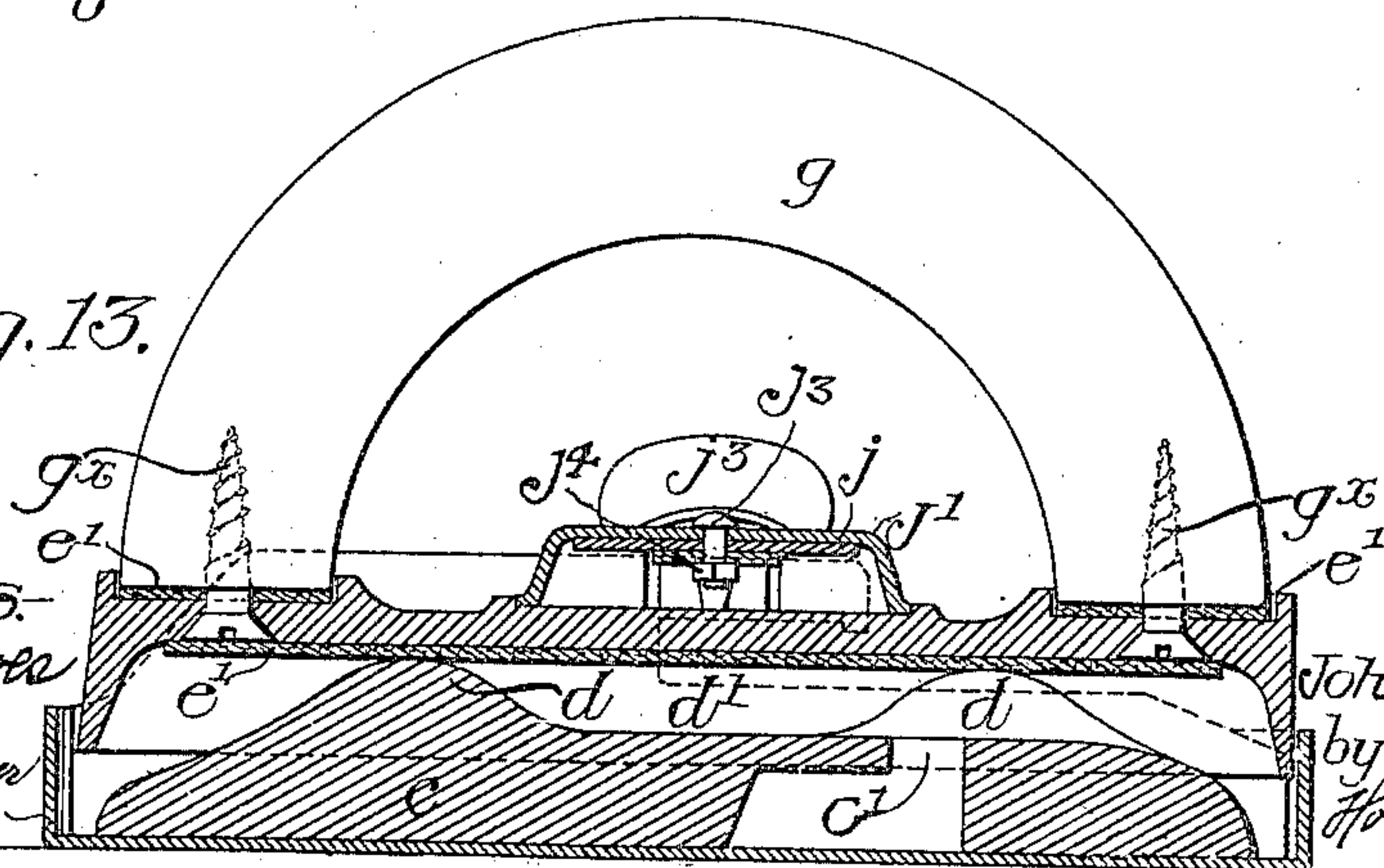


Fig. 13.



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UNITED STATES PATENT OFFICE.

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LAUNDRY-IRON.

952,295.

Specification of Letters Patent. Patented Mar. 15, 1910.

Application filed October 11, 1907. Serial No. 396,911.

To all whom it may concern:

Be it known that I, JOHN ROBERT ADAMS, subject of the King of Great Britain and Ireland, and residing at "The Croft", Sneyd Green, Burslem, in the county of Stafford, England, have invented a new and useful Improved Laundry-Iron, of which the following is a specification.

This invention relates to laundry irons, sometimes termed box irons, that consists of a case in which a metal heater that has been heated in a fire is inserted when required for the purpose of smoothing or pressing articles of clothing and the like.

The objects of this invention are to enable the heat generated and diffused by the aforesaid metal heater to be utilized more effectually for the purposes hereinbefore named, and to prevent the heat radiating in an upward direction to the discomfort of the person using the iron.

In the accompanying drawings illustrating my said invention, and to which I hereinafter refer, Figure 1 is a side view, and Fig. 2 a plan of my improved laundry iron, Fig. 3 is a longitudinal elevation in section, and Fig. 4 a plan of the handle and shield or cover removed from the shoe Fig. 5, which is a side view, and Fig. 6 a plan of the shoe: Fig. 7 is an edge view and Fig. 8 a plan of the metal heater: Figs. 9, 10 and 11, are respectively plan, side edge view, and end edge view of a retaining spring for connecting the handle and shield to the shoe. Fig. 12 is a transverse section on the line 2—2 Fig. 1; and Fig. 13 is a longitudinal sectional elevation taken on the line 3—3, Fig. 2.

In these views the same letters refer to like parts.

According to and for the purposes of my invention as hereinbefore named, I make a shoe b having upwardly projecting flanges b^4 as shown in Figs. 5 and 6 on the drawing, by stamping, pressing or otherwise from a thin sheet of metal, preferably brass, in which to place a metal heater as c shown in Figs. 7 and 8 on the drawing: this heater whose contour or outline is the same as the shoe b is perfectly flat on its face, but is camel backed, that is, it is curved and has projections as d formed on the top, either in the positions and number shown on the drawing, or in other positions and varied in number: the shield or cover a provided with a circular flange J and downwardly

extending flanges b^5 which rest within the boundary of the flanges b^4 of the shoe or base section b shown in Figs. 3 and 4 is of a dished form, and has an asbestos lining e , by which it is insulated from the heat radiating from the heater c : the handle g which may be secured thereto, either by screws g^x as shown, or by other preferred means is also protected from the heat radiation by being provided with insulating strips e' .

For the purpose of clamping the cover a to the shoe b and the heater c between them, I employ a spring clamp j which has a cap plate J' designed to fit within the circular flange J on the cover a . The end j' of the clamp is constructed to pass through a slot b' in one flange b^4 of the shoe b while the end j^2 is provided with a knob j^3 and is designed to pass into a bayonet slot on the opposite flange b^4 of the shoe b ; the cap plate J' being pivotally attached to the spring j by a bolt J^3 and a nut J^4 .

When assembled ready for use the heater c , is within the shoe b ; the cover a rests upon the projections d of the heater c , and is locked to the shoe b by the spring clamp j . The locking action is as follows,—the end j' of the spring j is slipped through the slot b' of the shoe b and the cap-plate J' forced within the circular flange J on the cover a by pressing down on the knob j^3 ; then the whole spring structure is turned, the circular flange J acting as a pivot until the end j^2 passes within the bayonet slot b^2 shown in Figs. 5 and 12, and as the hand is removed the end j' is kept from any lateral outward movement by the projection b^3 forming a part of the bayonet slot b^2 .

To remove the heater it is only necessary to press down on the knob j^3 until the spring end j^2 clears the projection b^3 ; then turn the spring until clear of the slot b^2 . The cover a can then be lifted off and the heater section removed.

By providing the upper face of the heater c with the projections d , upon which rests the cover a , I not only obtain a good frictional contact between the two but create an air space shown at d' Figs. 12 and 13 which receives the direct heat radiation from heater c and acts as a cooling medium between the latter and the cover a . The heater c is cutaway at c' , as clearly shown in Figs. 7, 8 and 13, to allow for its easy removal from the shoe b . By these means

the ordinary process of ironing fabrics can be pursued with comfort by the suppression of the radiant heat from the heater, and an increased amount of heat is passed from the
5 heater to the articles that are being smoothed or pressed.

I claim as my invention:—

1. The combination of a sad iron having a hollow base and open at the top, a handle
10 section of the same shape as and detachable from the base and adapted to rest within the base section, yielding means for securing the handle section to the base, a detachable heater having a flat bottom adapted
15 to rest upon the flat base, said heater having one or more projections of limited area contacting with the handle section.

2. The combination in a sad iron of a flat

hollow base having upwardly projecting flanges provided with slots, a detachable
20 handle section having downwardly extending flanges resting within the flanges of the base section, a spring on the handle section and fitting the slots in the flanges of the base section, a detachable heater mounted
25 within the base and having projections of limited area upon which the handle section rests the parts being rigidly held together by the spring.

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

JOHN ROBERT ADAMS.

Witnesses:

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