

No. 788,302.

PATENTED APR. 25, 1905.

E. C. BARTLEY.
ICE CREEPER.

APPLICATION FILED SEPT. 21, 1904.

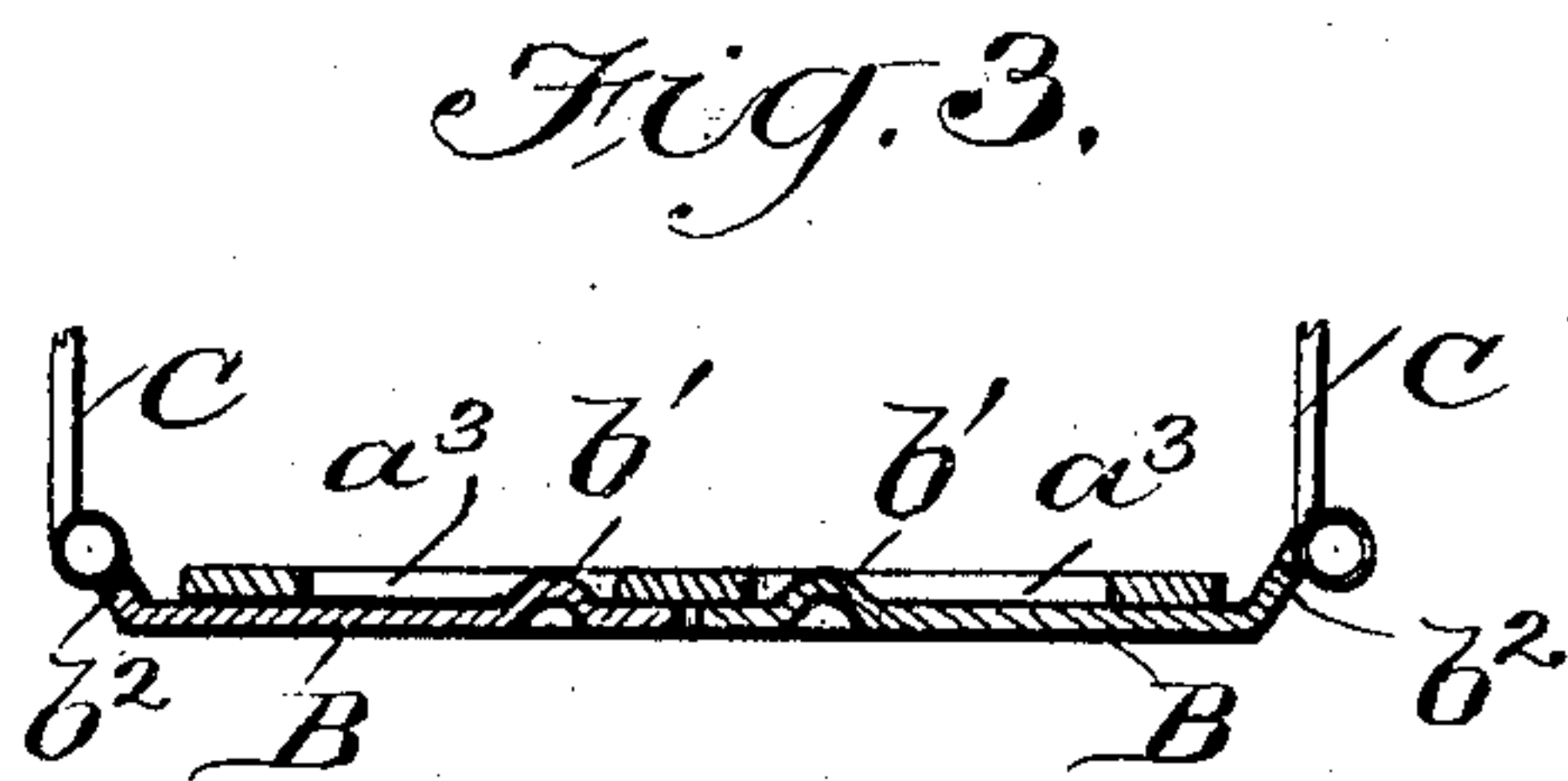
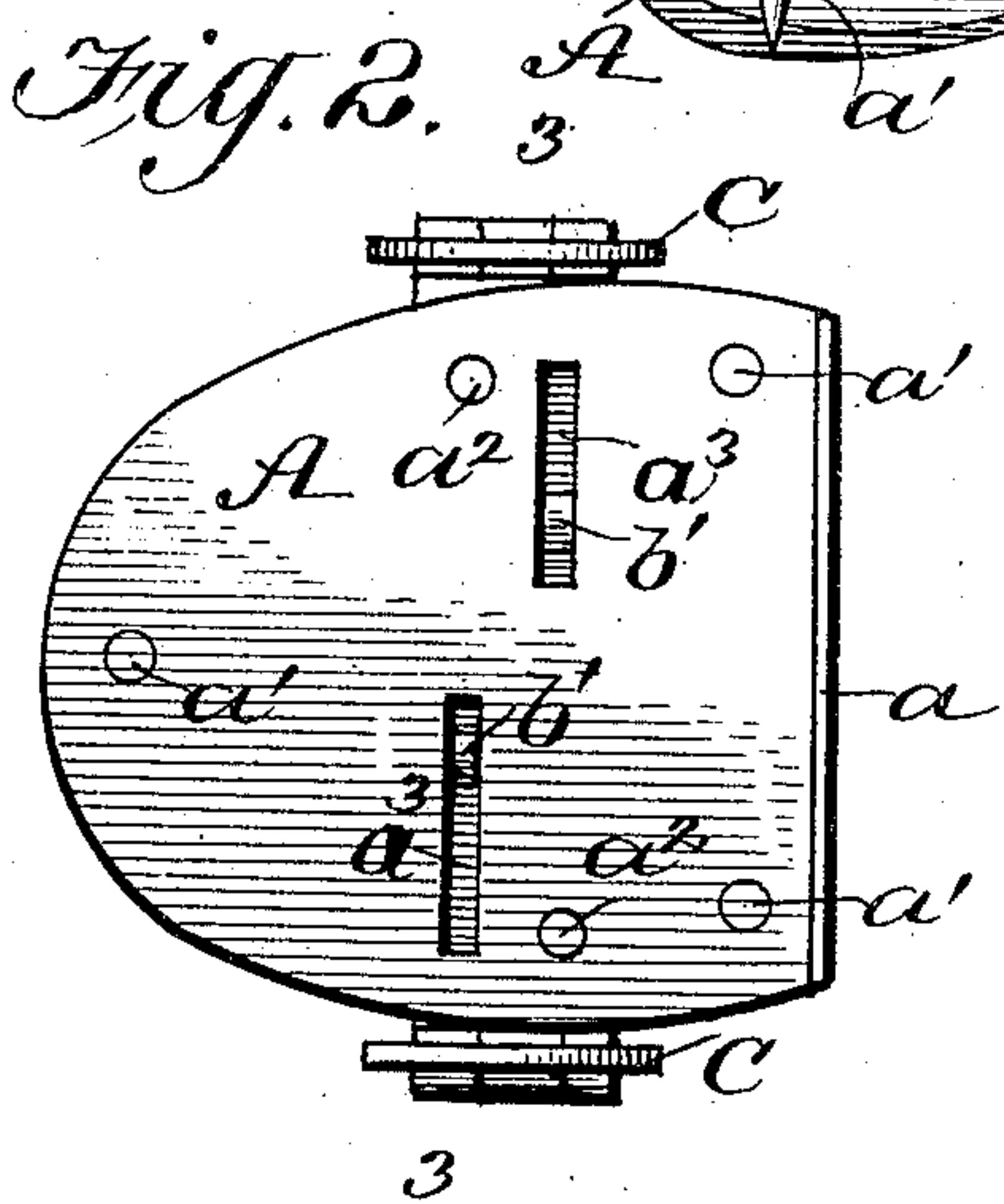
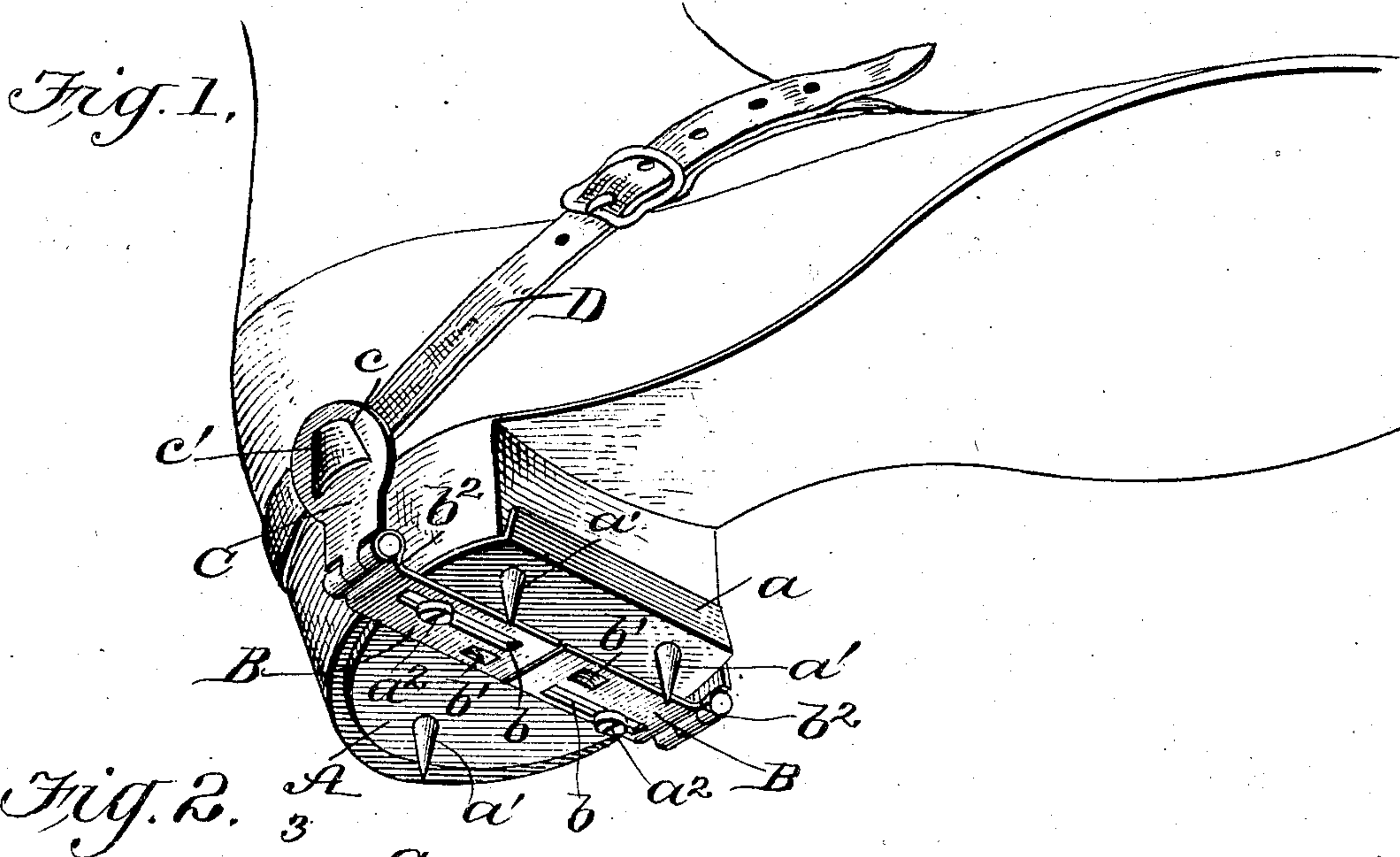


Fig. 4.

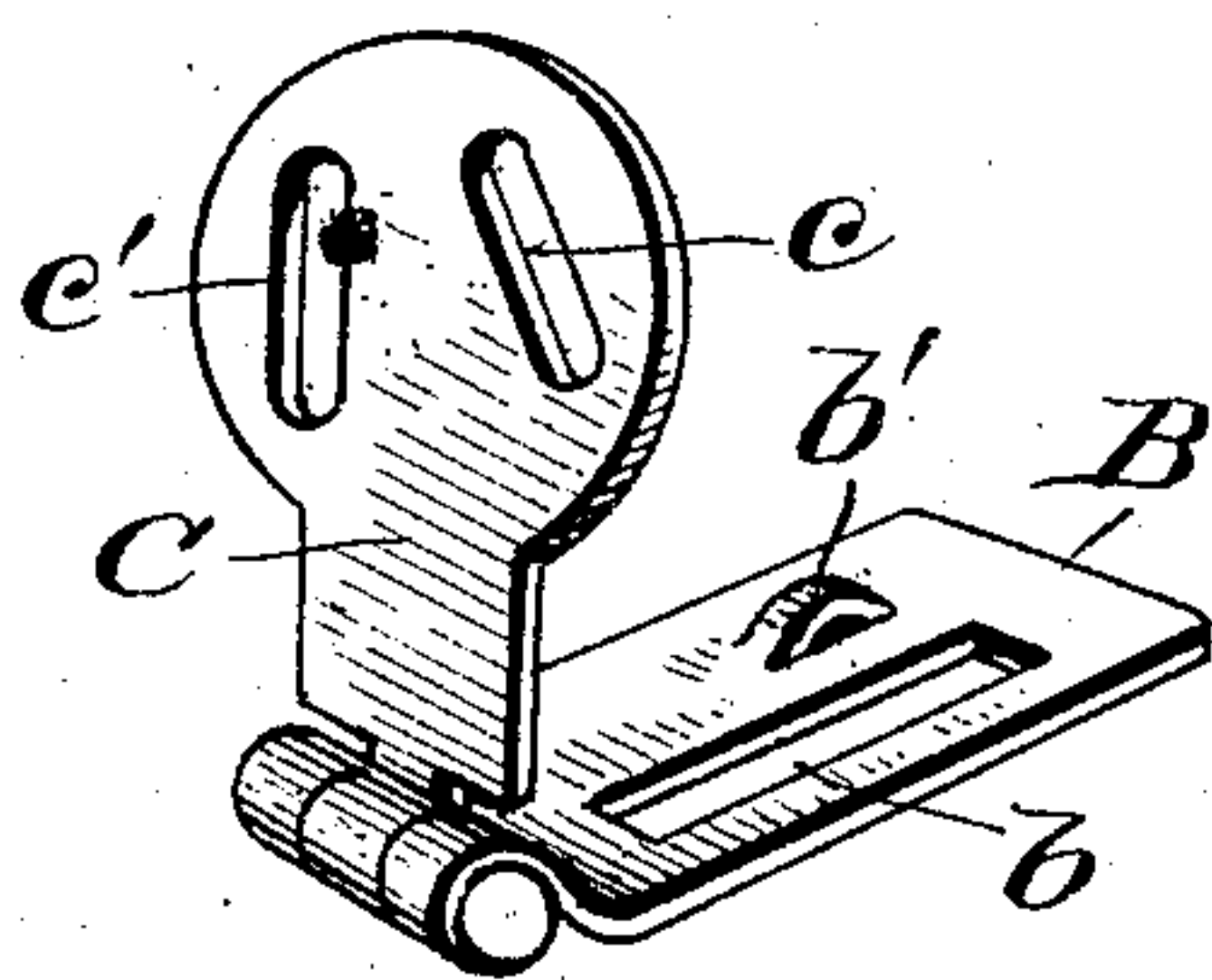
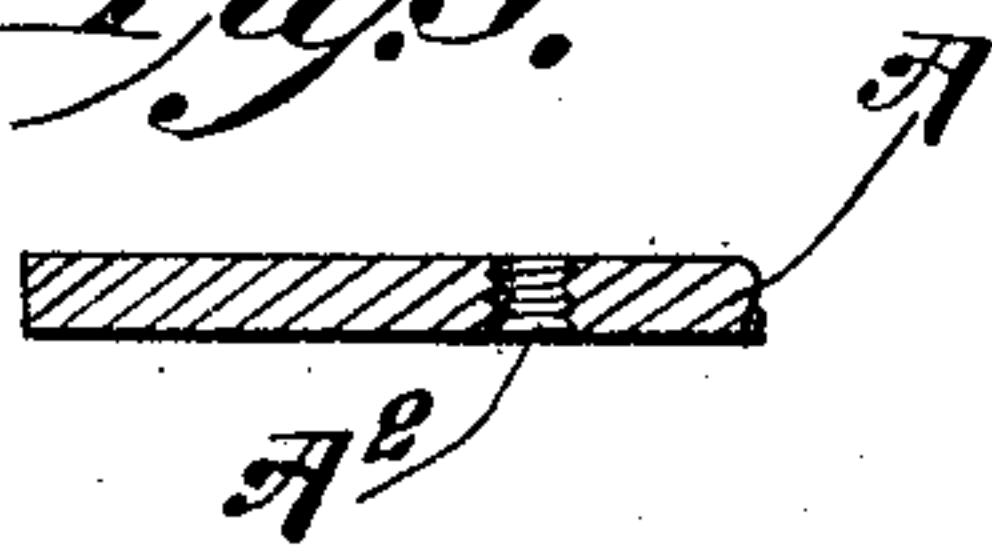


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWARD CORNELIUS BARTLEY, OF MIFFLINTOWN, PENNSYLVANIA.

ICE-CREEPER.

SPECIFICATION forming part of Letters Patent No. 788,302, dated April 25, 1905.

Application filed September 21, 1904. Serial No. 225,341.

To all whom it may concern:

Be it known that I, EDWARD CORNELIUS BARTLEY, a citizen of the United States, residing at Mifflintown, in the county of Juniata and State of Pennsylvania, have invented a new and useful Improvement in Ice-Creepers, of which the following is a specification.

My invention relates to an improvement in ice-creepers such as are designed to be secured to the heel of an ordinary boot or shoe or to be worn with rubbers or overshoes, its object being to produce a simple cheap efficient device for the purpose described and one which can when not in use be folded into a small compass to enable it to be readily carried in the pocket, &c.

To these ends my invention consists in certain novel features of construction, arrangement, and combination of parts, as will be hereinafter fully described, and pointed out in the claims, reference being had to the accompanying drawings, forming part of this application, in which—

Figure 1 is an inverted perspective view of my improvement applied as in use. Fig. 2 is a top plan view. Fig. 3 is a transverse vertical section on line 3 3 of Fig. 2. Fig. 4 is a detail perspective view of one of the side braces with attached slidable plate. Fig. 5 is a section showing the threaded opening A^2 .

A represents a piece of sheet-steel forming a base-plate made in the configuration of the bottom of an ordinary shoe-heel. Said base-plate has an upwardly-turned flange a at its front edge, which will when in use bear against the front face of the heel of the shoe and prevent the creeper from moving backwardly. a' represents conical-pointed case-hardened-steel calks or points, which are riveted or otherwise suitably secured to the base-plate A and pointing downwardly to penetrate the ice and prevent slipping. There may be as many of these calks as desired, though three will generally be found to answer all ordinary purposes.

B represents narrow lateral plates of sheet-steel or other suitable material secured to the bottom face of the base-plate by the screws a^2 , passing through the slots b , located to one

side of the center of said plates B. Said screws a^2 , after passing through the lateral plates B, screw into openings A^2 in the base-plate A, the ends of these screws being flat and lying substantially flush with the upper face of the base-plate A. On the opposite side of the center of the lateral plates on which the slot b is made a small portion of each plate B is struck up, forming a projection b' , which projections fit in and are adapted to slide in transverse elongated slots a^3 , made through the base-plate. The outer ends of the plates B are turned up a slight distance, as shown at b^2 , and to these upturned portions are hinged the side braces C, provided with the slits c and c' . The forward slit c , it will be noticed, extends obliquely, while the rear slit c' is substantially vertical.

D represents a strap which passes through the forward slit c from the inside and then through the rear slit c' from the outside. This strap is provided with an ordinary buckle or other adjusting and fastening device at one end.

In use my improvement is placed on the bottom of the heel of a shoe, the flange a' resting against the front face of the heel, the strap passing around the back of the heel. The sliding plates are then adjusted to suit the size of the heel and the set-screws tightened to hold the said sliding plates. The strap is then drawn up tight around the heel and ankle of the wearer, and the device is then ready for use.

It will be observed that my improvement can be worn by any one from a child to a full-grown person, and when not in use by folding the side braces down upon the upper face of the base-plate the creepers will occupy but a very small space and can be conveniently carried in the pocket or elsewhere.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an ice-creeper the combination with a base-plate provided with calks or spurs, and having an upturned flange at its front edge, of laterally slidably adjustable plates on the lower face of the base-plate, side braces hinged

to said laterally-slidable plates, and a strap or band adjustably secured to the upper ends of the side braces.

2. In an ice-creeper the combination with a
5 base-plate having calks or spurs projecting from its lower face, of laterally slidably adjustable plates fitted to the lower face of said base-plate, side braces hinged at their lower
10 ends to said laterally-slidable plates and provided at or near their upper ends with an oblique and a vertical slit, and a strap or band threaded through said slits.

3. In an ice-creeper the combination with a
15 base-plate having lateral slots therethrough, of a pair of laterally slidably adjustable slotted plates secured to the lower face of the base-plate by screws passing through the slots in the slidable plates, said plates provided with
20 lugs or projections fitting in the lateral slots of the base-plate, and means for securing the device to the heel of a shoe.

4. In an ice-creeper the combination with a
25 base-plate having calks or spurs and provided with lateral slots therethrough and threaded openings adjacent to said slots, of a pair of slotted laterally-slidable plates having upturned outer ends and secured to the lower face of the base-plate, screws passing through the slots of the slidable plates into the thread-

ed openings in the base-plate, side plates or
30 braces hinged at their lower ends to the said upturned ends of the slidable plates and having at or near their upper ends an oblique and a vertical slit, and a strap or band threaded through said slits and adapted to pass
35 around the heel of a shoe and be secured over the ankle of the wearer.

5. In an ice-creeper the combination with a
base-plate having an upwardly-extending
40 flange at its front end and provided with lateral slots and a threaded opening adjacent to said slots, of laterally-slidable slotted plates secured to the lower face of the base-plate, screws passing through the slots of the slid-
45 able plates into the threaded openings of the base-plate, said slidable plates provided with lugs or projections on their upper face fitting in the lateral slots of the base-plate, and said
50 slidable plates having upturned outer ends, side plates or braces hinged at their lower ends to the upturned ends of the slidable plates, and having at or near their upper ends an oblique and a vertical slit, and a strap or band threaded through said slits.

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