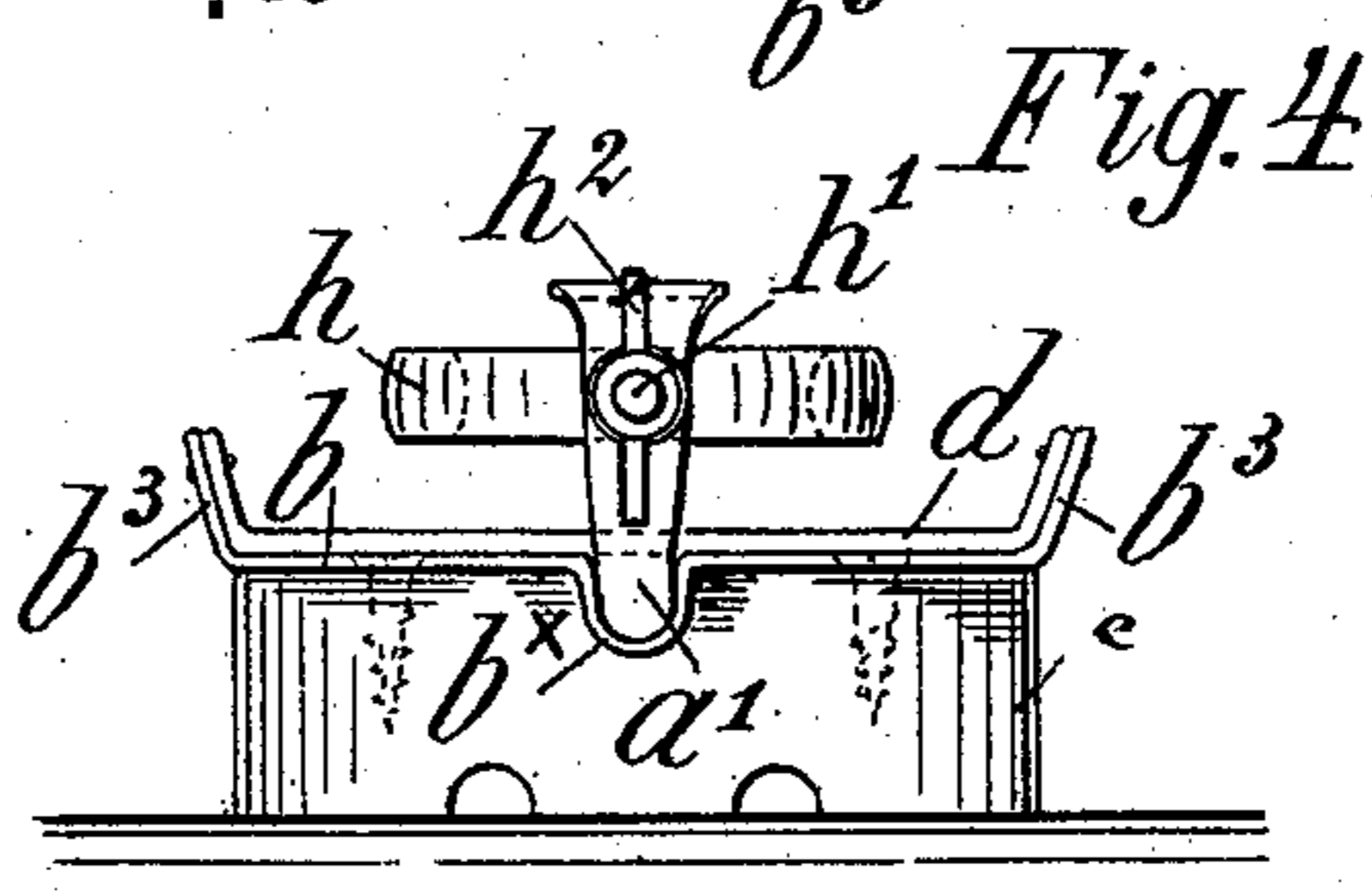
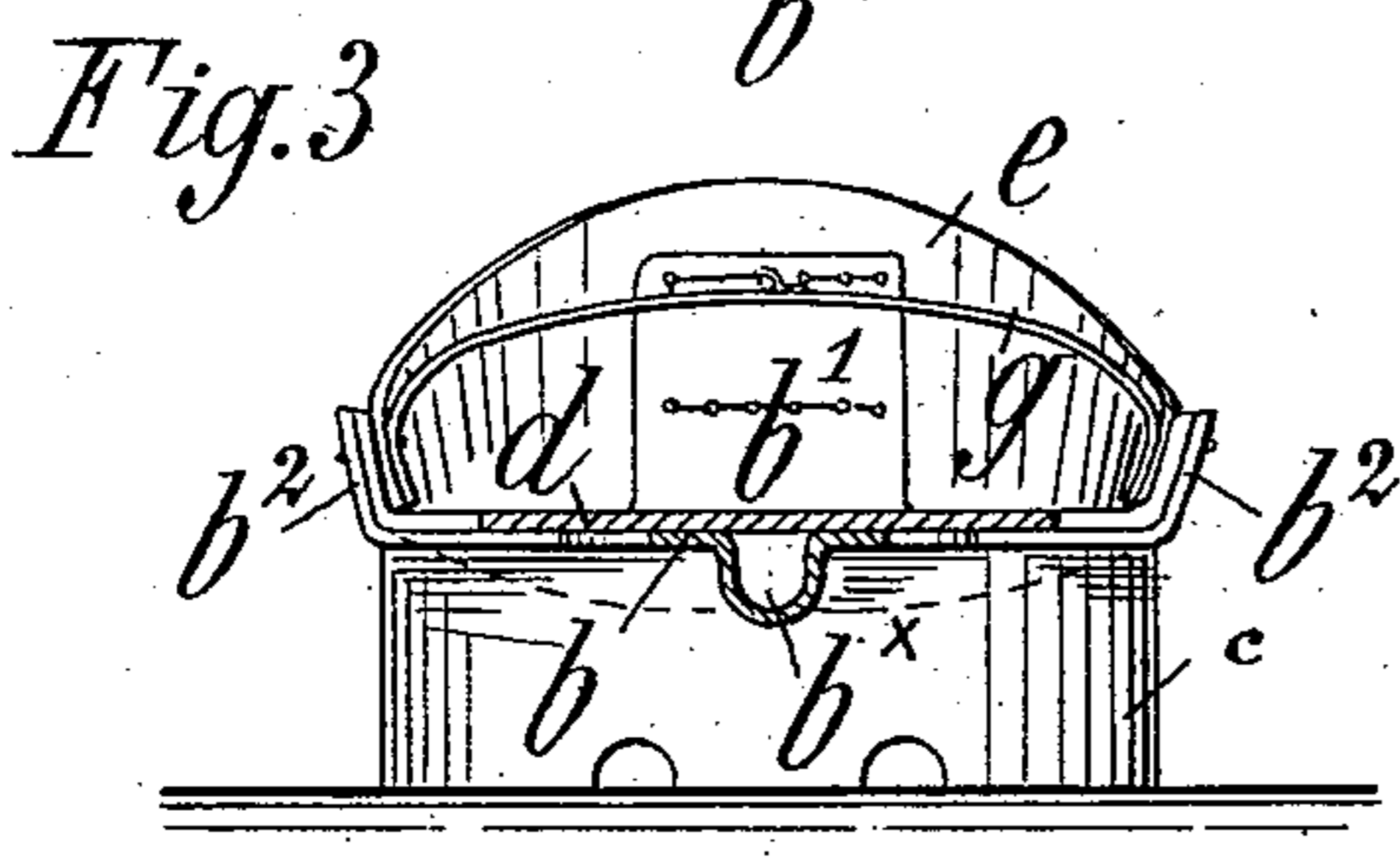
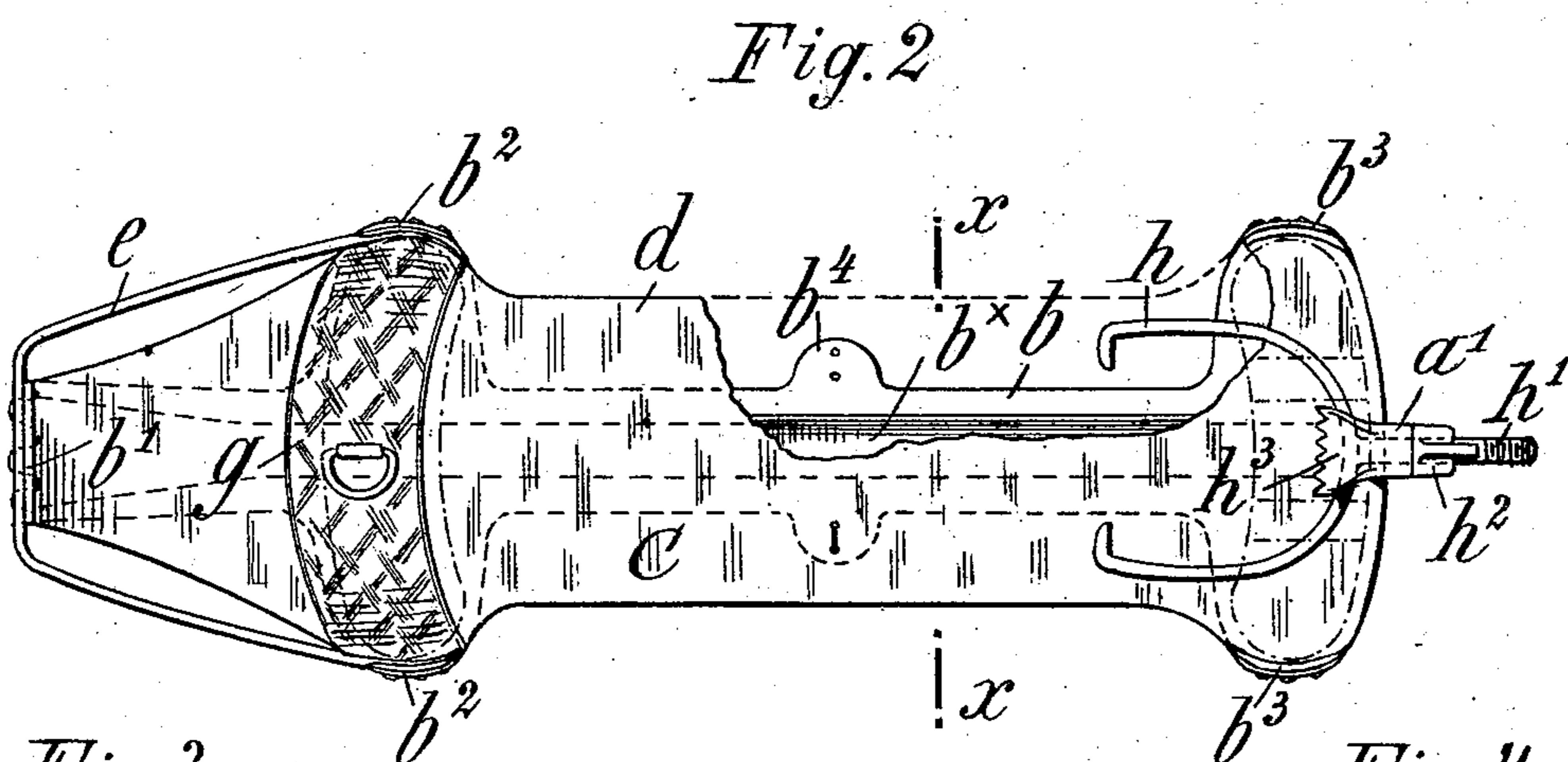
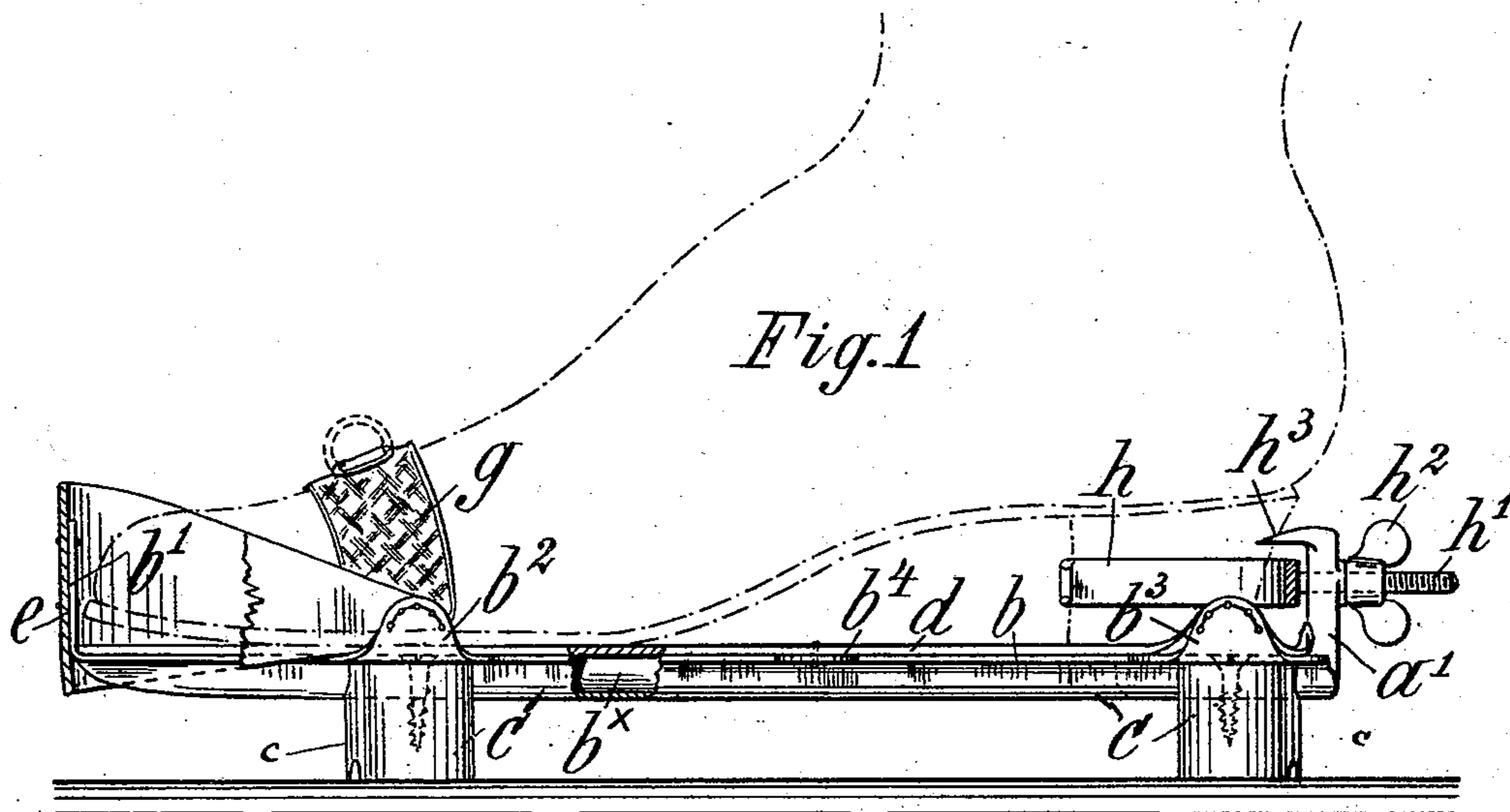


(No Model.)

H. JEDLICKA.
ICE CREEPER.

No. 477,255.

Patented June 21, 1892.



Witnesses:
E. R. Bolton
W. F. Jones

Inventor:
Hugo Jedlicka
By *Richard R. [Signature]*
his Attorneys.

UNITED STATES PATENT OFFICE.

HUGO JEDLICKA, OF BIHAC, AUSTRIA-HUNGARY.

ICE-CREEPER.

SPECIFICATION forming part of Letters Patent No. 477,255, dated June 21, 1892.

Application filed March 28, 1892. Serial No. 426,747. (No model.) Patented in France March 20, 1891, No. 212,238; in Germany March 21, 1891, No. 58,768, and in England March 23, 1891, No. 5,188.

To all whom it may concern:

Be it known that I, HUGO JEDLICKA, engineer, a subject of the Emperor of Austria-Hungary, residing at Bihac, in the occupied Province of Bosnia, in the Empire of Austria-Hungary, have invented certain new and useful Improvements in Protectors for Foot-Coverings, (patented in Germany March 21, 1891, No. 58,768; in France March 20, 1891, No. 212,238, and in Great Britain March 23, 1891, No. 5,188;) 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 letters of reference marked thereon, which form a part of this specification.

This invention relates to a device affixable to shoes for protecting the same against mud and moisture, thus preventing the noxious effect of the latter on the foot, and also for preventing slipping in case of sleet.

According to my invention I utilize a rigid sole made of sheet-iron affixable to the shoe, having at its front extremity a guard-plate for protecting the tip and bearing on its under face two treading-blocks which, in order to prevent slipping, are provided with projecting spikes or are made of material suitable for that purpose; and the invention consists in the details hereinafter claimed.

The accompanying drawings illustrate a protecting device embodying this invention. Figure 1 is a side elevation of the same, with partial section; and Fig. 2, a plan. Fig. 3 is a vertical section through $x x$ in Fig. 2. Fig. 4 is an end view.

As shown, the iron sole C , on which rests the shoe, carries, fastened to its under face, two treading-blocks $c c$. Said sole preferably has the form represented in Fig. 2 and is strengthened by a longitudinal groove b^x stamped into it.

In order to enable the blocks $c c$ to be firmly fastened to the sole C , the latter is enlarged in width at the places where said blocks are to be affixed and the same are secured either by means of ordinary screws or by means of screws having pointed ends projecting beneath the blocks. Said blocks may be made

either of wood or preferably of cork impregnated with vulcanized rubber. The slipping on frozen surfaces is prevented by a rubber lining or by the aforementioned pointed ends of the screws. The blocks $c c$ are placed one beneath the toe and the other beneath the heel. The guard-iron b' in front and the raised edges $b^2 b^3$ of the iron sole serve to prevent the foot from sliding laterally or longitudinally within the device.

In order to protect the foot-covering from mud thrown up while walking and from rain-water, the sole C has two lateral lugs b^4 , to which is secured a lining d of water-proof material. Further, the point of the shoe is protected by a leather strap e , which surrounds the iron guard b' and reaches from one of the raised edges b^2 to the other. The lining d is secured to the iron sole C in any convenient manner. It is advantageous to cut into the treading-blocks $c c$, in the direction of the length of the apparatus, grooves, having for their object to divide the bearing-surface of the foot in several distinct parts, Figs. 2, 3, and 4.

The apparatus is secured to the shoe on the one hand by means of a rubber strap g , which is passed round the upper part of the tip of the shoe and is fastened to the raised edges b^2 of the sole, thus pressing said part of the shoe against said sole or rather against the lining d , and on the other hand by means of stirrup h , which embraces the heel. Said stirrup carries a threaded bolt h' , going through the back part a' of the sole C , which is bent upward and movable in same part by means of a nut h^2 . The part a' has its top bent once more inwardly and has on its edge teeth or points h^3 , that penetrate into the heel of the shoe and hold it fast when the latter is drawn backward by the stirrup h on the bolt being pulled out by the screw. This has the further effect of protecting the rubber strap from excessive strain.

I claim—

1. In a device of the character herein described, the combination of a sole-plate provided with a central longitudinal groove, the toe and heel blocks, means for securing the former to the toe of the shoe, a stirrup h , a threaded bolt h' , passing through part a' , a

toothed part on the latter, a screw-nut h^2 , working on said bolt and serving to clamp the heel against part a' , substantially as set forth.

2. In a device of the character herein described, the combination of a sole-plate provided with a central longitudinal groove and a central reinforcing-rib, toe and heel blocks secured to and depending from said plate, the toe-guard b' , the protecting-strip e for the same, the stirrup h , the threaded bolt h' , passing through part a' , the toothed part on the latter, the screw-nut h^2 , working on said bolt and serving to clamp the heel against part a' , substantially as set forth.

3. In a device of the character herein described, the combination, with the sole-plate, of toe and heel blocks and means for securing the same to the sole-plate, the stirrup h , the threaded bolt h' , passing through the part a' , a toothed part on the latter, and the screw-

nut h^2 , working on said bolt and serving to clamp the heel against part a' , substantially as set forth.

4. In a device for protecting foot-coverings against moisture and sleet, the combination, with an iron sole-plate b , having a longitudinal groove b^x , of heel and toe blocks secured to said sole-plate, a water-proof lining d , two treading-blocks $c c$, secured to and depending from said sole-plate b , said device being secured to the shoe by means of a rubber strap g , and the clamping device $h h^3$, embracing the heel, substantially as set forth.

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

HUGO JEDLICKA.

Witnesses:

E. SPADANT,
F. SCRDOZ.