

No. 826,631.

PATENTED JULY 24, 1906.

W. VOGLER.
INSTEP SUPPORT OR ARCH PROP.
APPLICATION FILED MAY 20, 1905.

Fig. 1.

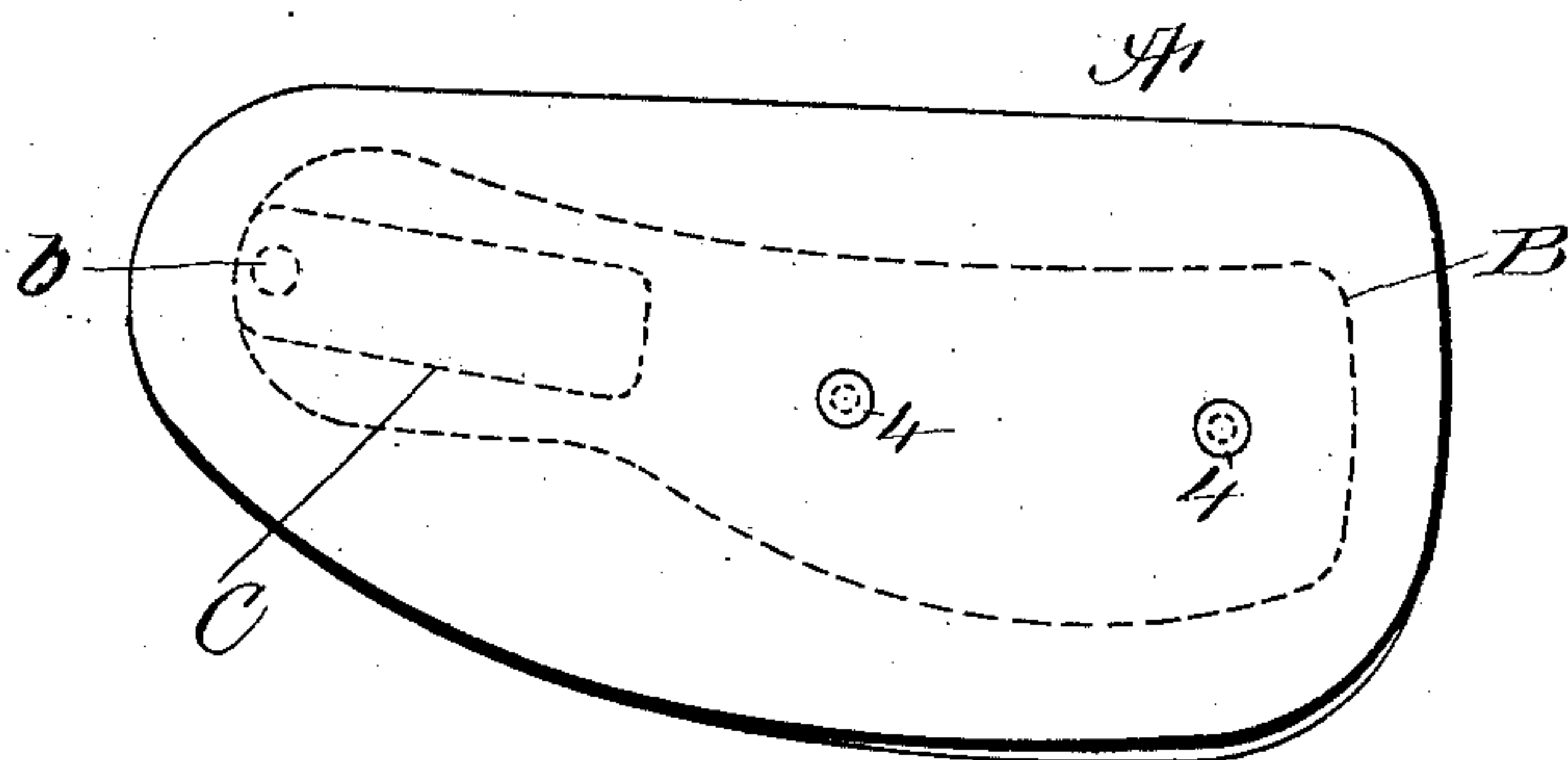


Fig. 2.

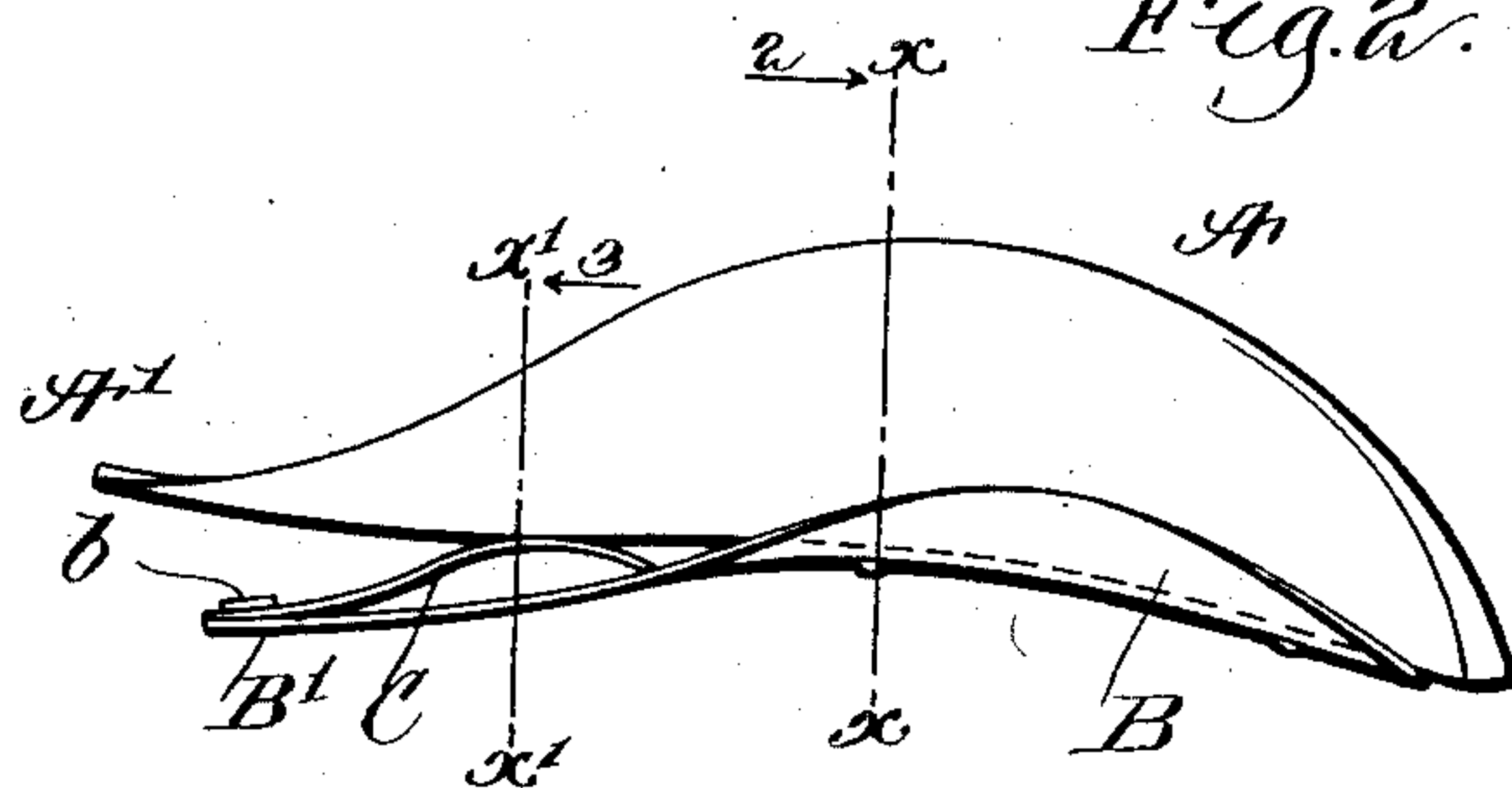


Fig. 3.

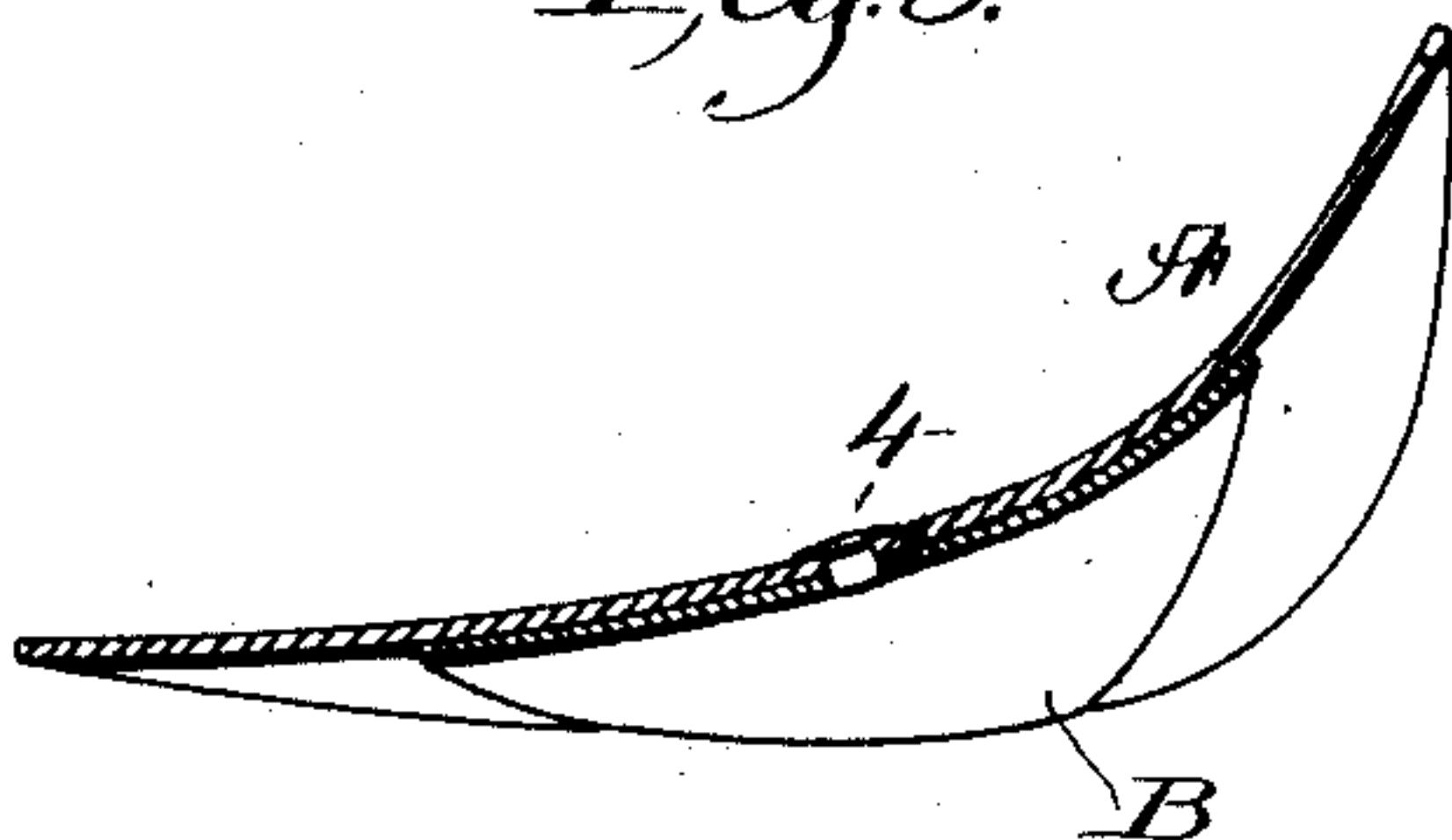
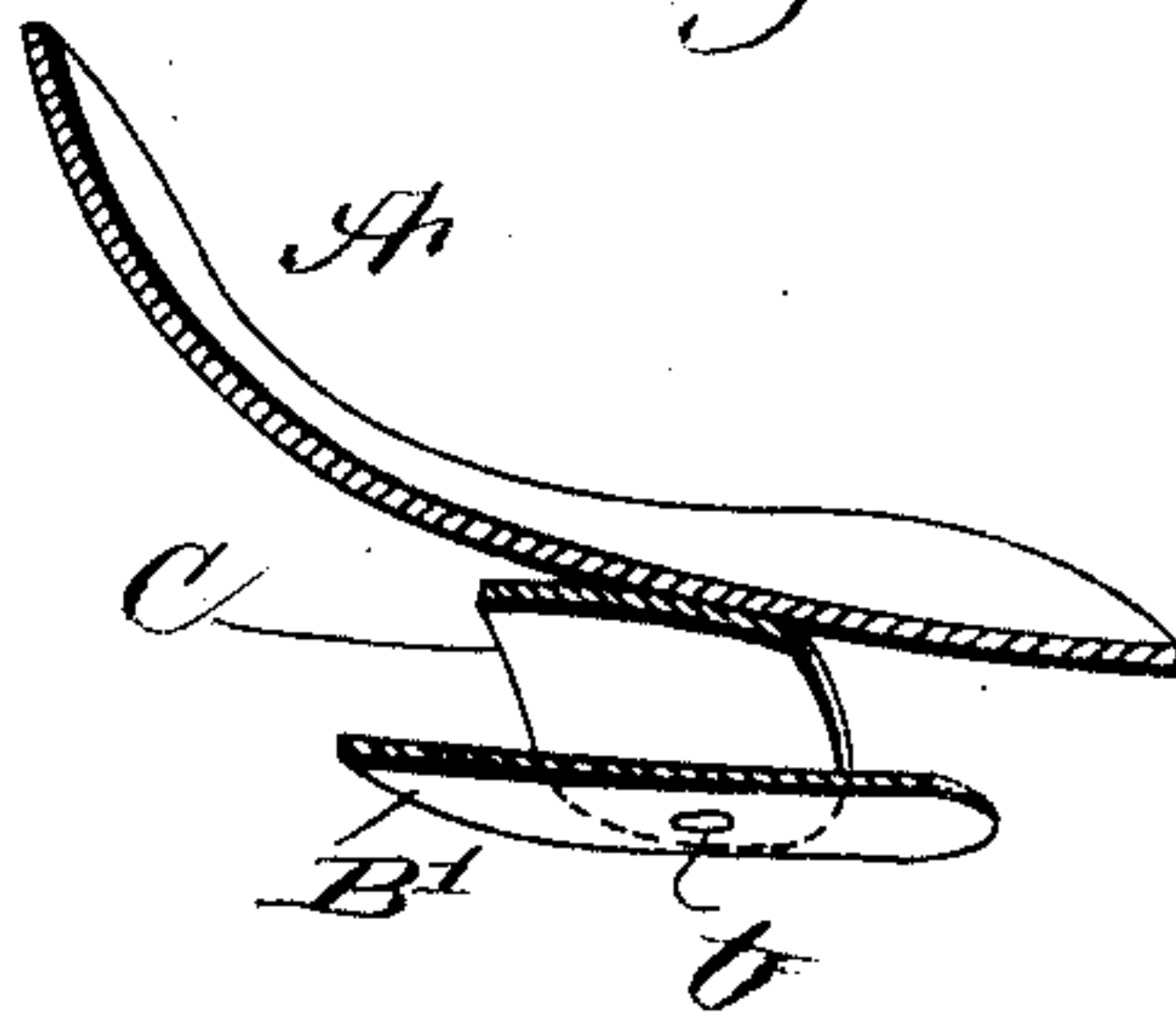


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM VOGLER, OF SOMERVILLE, MASSACHUSETTS.

INSTEP-SUPPORT OR ARCH-PROP.

No. 826,631.

Specification of Letters Patent.

Patented July 24, 1906.

Application filed May 20, 1905. Serial No. 261,476.

To all whom it may concern:

Be it known that I, WILLIAM VOGLER, a citizen of the United States, residing at Somerville, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Instep-Supports or Arch-Props, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention has for its object the production of a novel instep-support or arch-prop adapted to be readily inserted in a boot or shoe to contact with the arch of the foot to sustain the same, and, further, my novel support is so made as to ease the step and make the same more elastic, the contact of the support with the arch of the foot being at all times maintained.

My novel support and arch-prop comprises a body part and an underlying metal plate attached thereto at or near one end, and a spring interposed between said body part and plate at its other end, said spring being shown as secured to said plate. The plate is concavo-convex in shape both in the direction of its width and length, whereby it is adapted to fit the arch of the foot.

Figure 1 in plan view shows an instep-support or arch-prop embodying my invention. Fig. 2 is a side view of Fig. 1. Fig. 3 is a section in the line x , Fig. 2, looking in the direction of the arrow 2. Fig. 4 is a section in the line x' , Fig. 2, looking in the direction of the arrow 3.

The body part A, of celluloid, horn, sole-leather, metal, or other smooth substance, is shaped as common in instep-supports and arch-props—that is, the same is concavo-convex in the direction of its width, as shown by the two sections 3 and 4, and it is also concavo-convex in the direction of its length, as shown in Fig. 2. To the under side of the body part of whatever material I attach by rivets 4 one end of a metal plate B, the metal being preferably German silver, said plate being shown as concavo-convex in cross-section (see Figs. 3 and 4) and fitting the under side of the body part.

Instead of attaching both ends of the metal plate B to the body part A, I interpose between the heel end A' of the body part and

heel end B' of the metal plate a spring C, one end of which is shown as attached to the metal plate B by a rivet b , the convexed side of said spring contacting with the under side of said body at a point between its heel and arch end.

The spring shown as interposed between the body part and metal plate acts normally to maintain the heel end of the body part above the heel end of the metal plate B in a yielding manner, it normally serving to maintain the upper side of the body part pressed closely against the under side of the arch of the foot in walking. It sustains said body part in a yielding manner, thus cushioning, as it were, the step of the wearer of the shoe containing the arch-prop, and makes it easier to walk and renders the step more elastic.

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

1. As an article of manufacture, an instep-support comprising a body part shaped both longitudinally and transversely to fit the arch of the foot, a metallic plate connected at one end to said body part, and a curved spring member connected to the other end of said plate, said spring member having a convexed part between its point of attachment with the metallic plate and its free end, which convexed part engages the under side of the body part.

2. As an article of manufacture, an instep-support comprising a body part shaped both longitudinally and transversely to fit the arch of the foot, a metallic plate rigidly secured at one end to the forward end of said body part, a concavo-convex spring member secured at one end to the rear end of said metallic plate, said spring member extending forwardly from said rear end and engaging the body part at a distance from its rear end.

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

WILLIAM VOGLER.

Witnesses:

GEO. W. GREGORY,
MARGARET A. DUNN.