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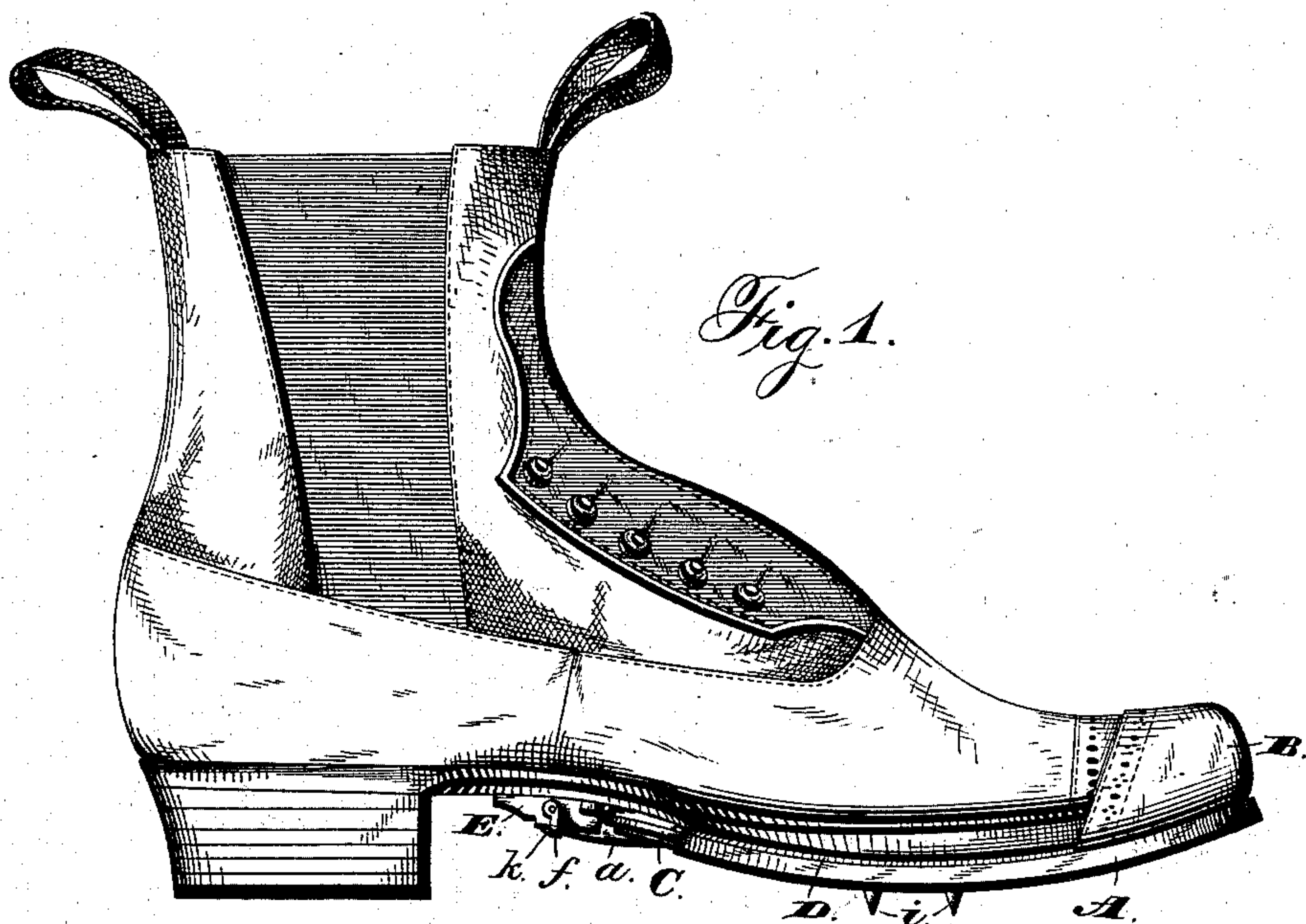
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S. C. BELKNAP & T. H. FYE.

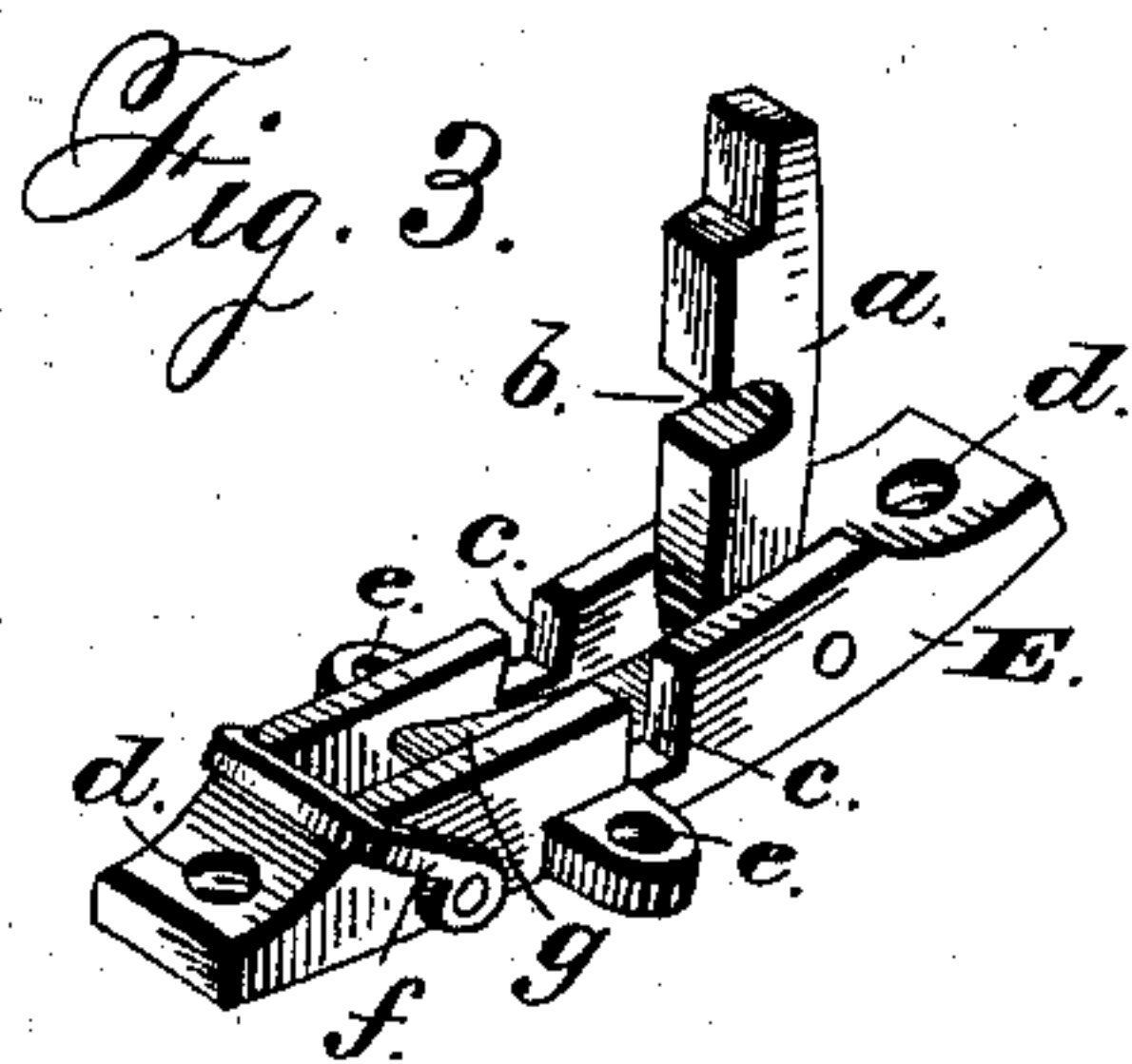
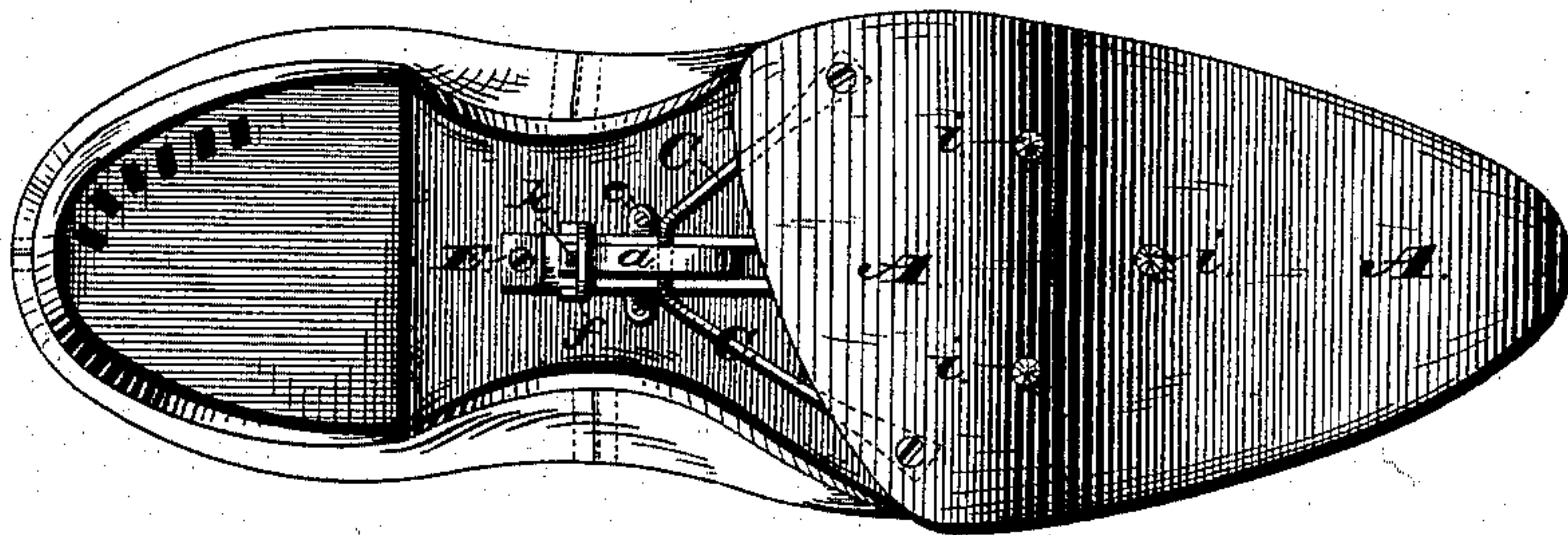
BOOT OR SHOE.

No. 278,308.

Patented May 29, 1883.



*Fig. 2.*



WITNESSES

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(No Model.)

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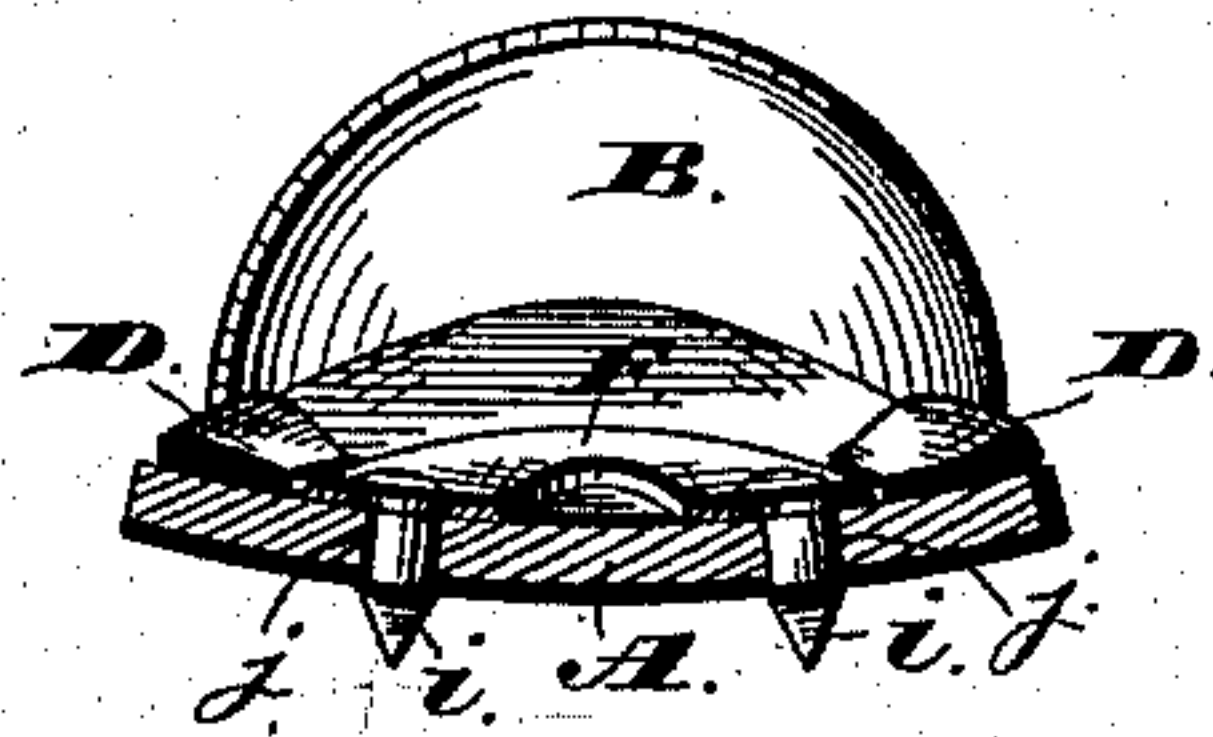
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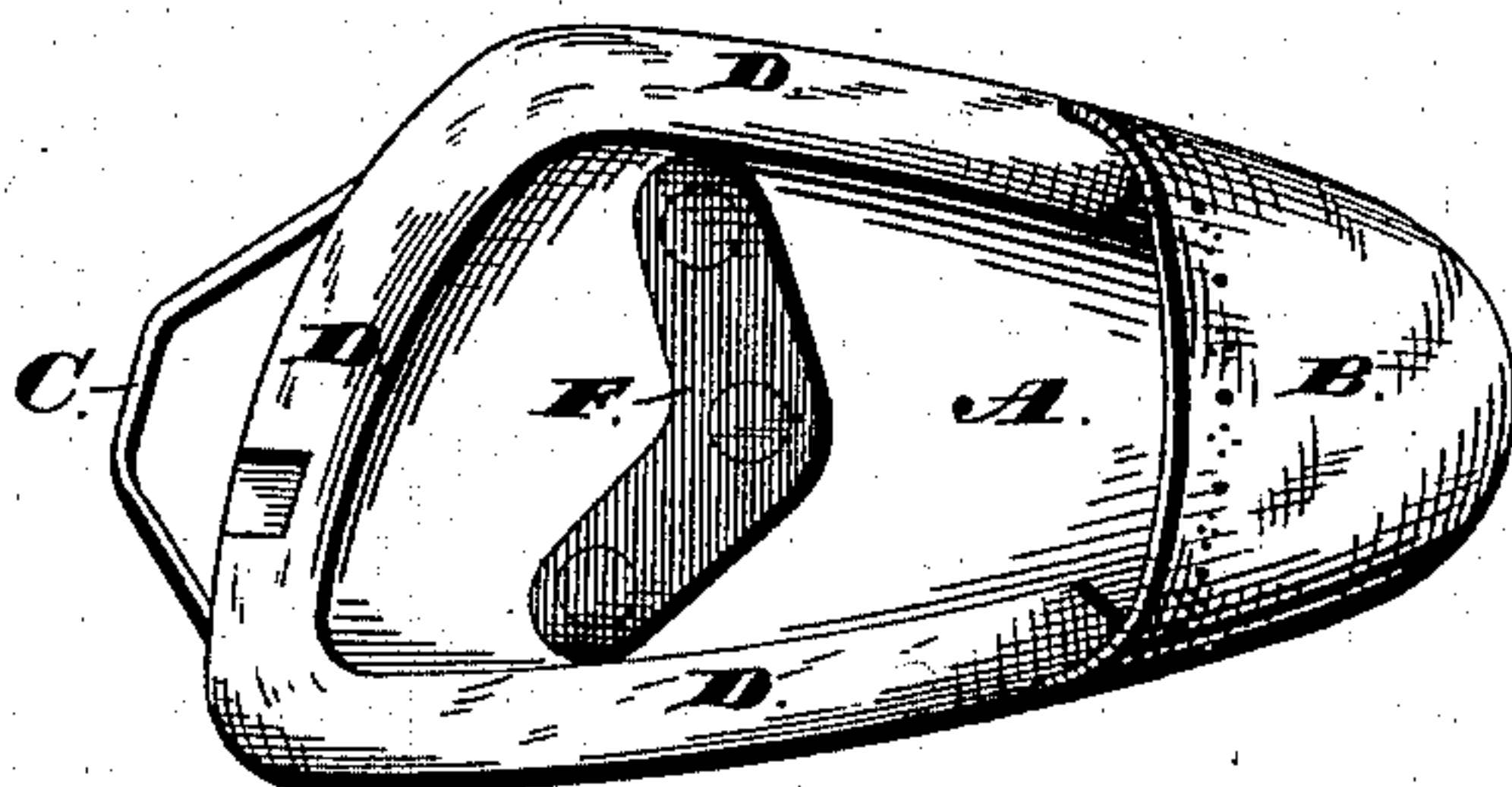
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*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



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# UNITED STATES PATENT OFFICE.

SAMUEL C. BELKNAP AND THEODORE H. FYE, OF ZANESVILLE, OHIO.

## BOOT OR SHOE.

SPECIFICATION forming part of Letters Patent No. 278,308, dated May 29, 1883.

Application filed March 21, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, SAMUEL C. BELKNAP and THEODORE H. FYE, of Zanesville, in the county of Muskingum and State of Ohio, have  
5 invented certain new and useful Improvements in Boots or Shoes; and we 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  
10 to make and use the same.

Our invention relates to an improvement in boots or shoes, the object of the same being to secure to a boot or shoe a removable half-sole in a water-tight manner. A further ob-  
15 ject is to provide said boot or shoe with a removable ice-creeper, which shall be held in position between the sole of the shoe and the removable half-sole, and provided with teeth which project through the latter; and with  
20 these ends in view our invention consists in certain details of construction and combination of parts, as will be hereinafter fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of a shoe provided with our improvement. Fig. 2 is a bottom plan view of the same. Fig. 3 is a detached view of the fastening device in its open position. Fig. 4 is a sectional view of the half-sole. Fig. 5 is a detached view of the half-sole. Fig. 6 is a view of the dummy.  
25 30

A represents a half-sole, provided at one end with a tip, B, similar in shape and appearance to the tip on an ordinary shoe. The half-sole  
35 A is provided at its other end with a metallic loop, C, screwed or otherwise firmly secured thereto. This half-sole is also provided around its upper edge with a flexible welt, D, which serves to prevent the ingress of water when  
40 the removable half-sole is attached to the shoe.

To the shank of the shoe is attached the metallic fastening device shown in Fig. 3. This consists of an open frame, preferably made in one piece, and provided at either end with  
45 holes *d* for the insertion of screws, by which it is screwed to the shoe. It may also be provided with similar holes, *e*, on either side, (shown in Fig. 3,) to more firmly secure it in place. In this frame E, and at the end near-  
50 est the toe of the shoe, is fulcrumed a lever,

*a*. This lever is provided with a transverse slot, *b*, which latter registers with a similar slot, *c*, formed in the sides of the frame E.

To the frame E, and at the end nearest the heel of the shoe, is pivotally secured a loop, *f*,  
55 which is adapted to lock the lever *a* in position.

Within the frame E is placed a flat spring, *g*, which is secured to the shank of the shoe by a screw passing through the end of the  
60 frame E. This spring *g* is adapted to hold the lever *a* down tightly on the loop *f*, the said loop being prevented from becoming disengaged from the lever *a* by a depending projection or stop, *k*, formed integral with or rigidly  
65 secured to the said lever *a*.

F represents the plate of an ice-creeper, which is provided with downwardly-projecting teeth *i*, adapted to project through the holes or perforations *j*, formed in the removable  
70 sole A.

G represents a dummy, (shown in Fig. 6,) similar to the ice-creeper F in all respects, saving the teeth. In place of teeth, the dummy is provided with depending lugs of such length  
75 that when inserted in the perforations *j*, formed in the removable half-sole their ends will be flush with the surface of the latter. This dummy is designed to be employed when the creeper is not in use, for the purpose of stopping up  
80 the holes or perforations in the half-sole, and thus prevent the entrance of any water through them.

When it is desired to attach the removable half-sole to a shoe the ice-creeper or dummy,  
85 as the case may be, is first placed on the half-sole, with the teeth or lugs projecting through the perforations in the said half-sole. The toe of the shoe is then inserted in the tip B and the loop C placed in the transverse slot *b* formed in  
90 the lever *a*. The lever is then pressed into position to be locked by the loop, which movement draws the half-sole toward the heel of the shoe and depresses the rubber or leather welt and makes the connection water-tight. After the  
95 lever *a* is sufficiently depressed, the spring *g* being also depressed by contact with the said lever, the depending loop *f* is passed over the end of the lever, which latter, on being released, is pushed out by the said spring *g*, thus  
100



forcing the lever down on the loop, which is prevented from becoming disengaged therefrom by the stop *k*.

Our invention is simple in construction, is of few parts, may be applied to any style of boot or shoe, and can be manufactured at a small initial cost.

In view of the many slight changes that our improvement might be subjected to without departing from the spirit of our invention—as for instance, instead of a tip, *B*, foxing might be substituted therefor which would extend back to the ends of the half-sole, and instead of making the half-sole of leather we might use rubber—we would have it understood that we do not limit ourselves to the exact construction shown and described, but consider ourselves at liberty to make such slight alterations as fairly come within the spirit and scope of our invention.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a shoe and a half-sole provided with a tip, of an ice-creeper removably held between the half-sole and sole proper, said ice-creeper being provided with depending teeth adapted to project through the removable half-sole, and mechanism for removably securing the half-sole to said shoe, substantially as set forth.

2. The combination, with a shoe and a half-sole removably secured thereto and provided with perforations, of a removable ice-creeper situated between the sole proper and half-sole, the teeth of which project through the perforations in the half-sole, substantially as set forth.

3. The combination, with a shoe and a half-sole removably secured thereto and provided with perforations, of a removable dummy situated between the sole proper and the half-sole, the ends of the lugs of which are flush with the outer surface of the half-sole, substantially as set forth.

4. The combination, with a shoe, of a half-sole provided with a tip, and a metallic loop rigidly secured to the half-sole and projecting rearwardly from the inner end thereof to engage locking devices secured to the sole of the shoe, substantially as set forth.

5. The combination, with a shoe and a half-sole provided with a tip and flexible welt, of a loop rigidly secured to the half-sole, a frame secured to the shank of said shoe, a lever pivotally secured in said frame adapted to hold the loop, and means for securing the lever in position, substantially as set forth.

6. The combination, with a shoe, of a half-sole provided with a tip or foxing and a flexible welt and a loop rigidly secured to said half-sole, of a frame secured to the shank of the shoe and transversely slotted, adapted to receive said loop, a lever pivotally secured in said frame and provided with a slot registering with the slot in said frame, adapted to receive said loop, and means for locking the above parts in position, substantially as set forth.

7. The combination, with a shoe, of a half-sole provided with a tip and a flexible welt, a loop rigidly secured to said half-sole, a frame secured to the shank of the shoe and provided with a transverse slot adapted to receive said loop, a lever fulcrumed in said frame and provided with a slot registering with the slot in said frame, a loop pivotally secured to the frame adapted to lock the lever in position, and a spring secured in said frame for keeping the lever down against the loop, which is held in position by a stop on the lever, substantially as set forth.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

SAMUEL C. BELKNAP.  
THEODORE H. FYE.

Witnesses:

A. C. OATLEY,  
GEO. L. PHILLIPS.