

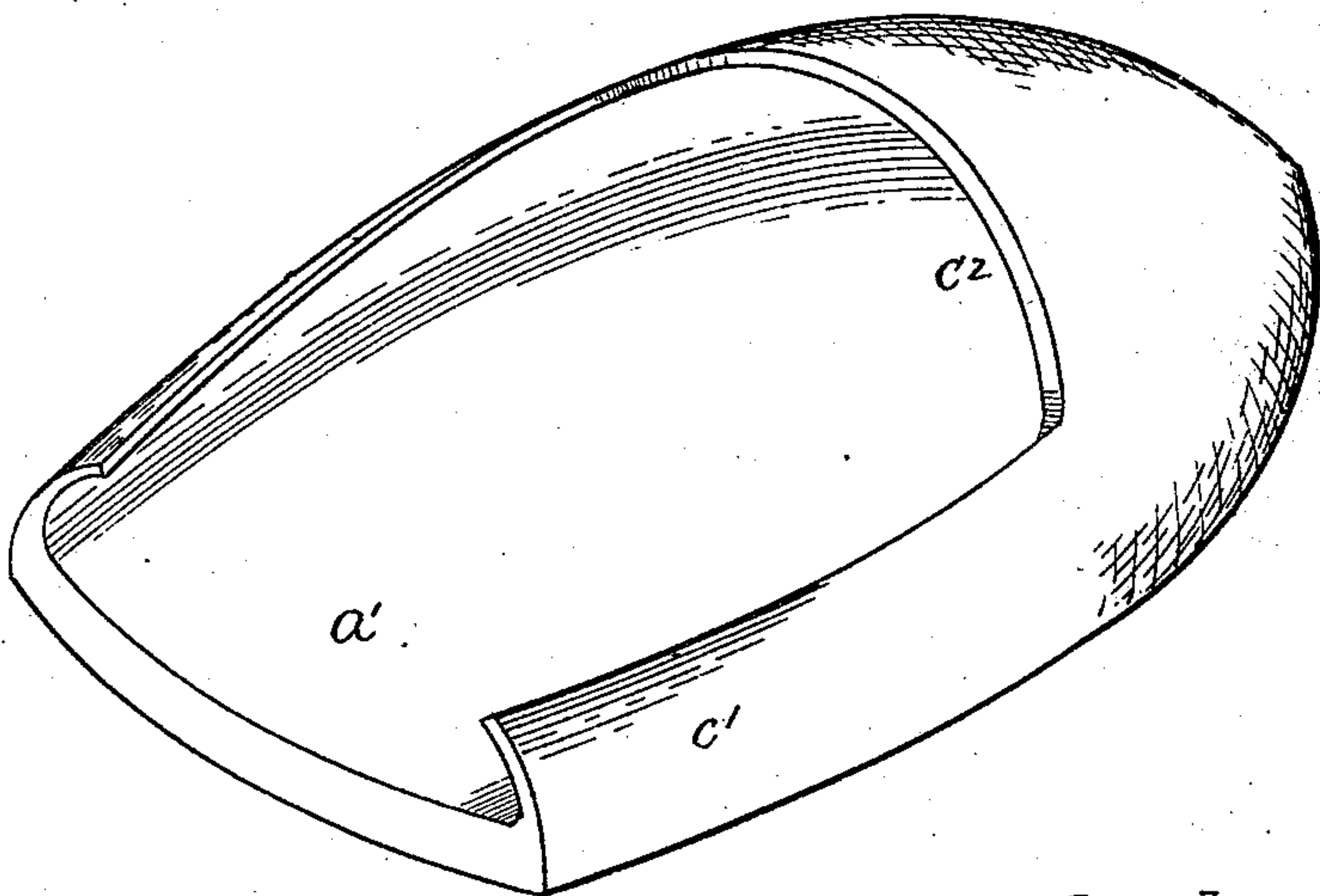
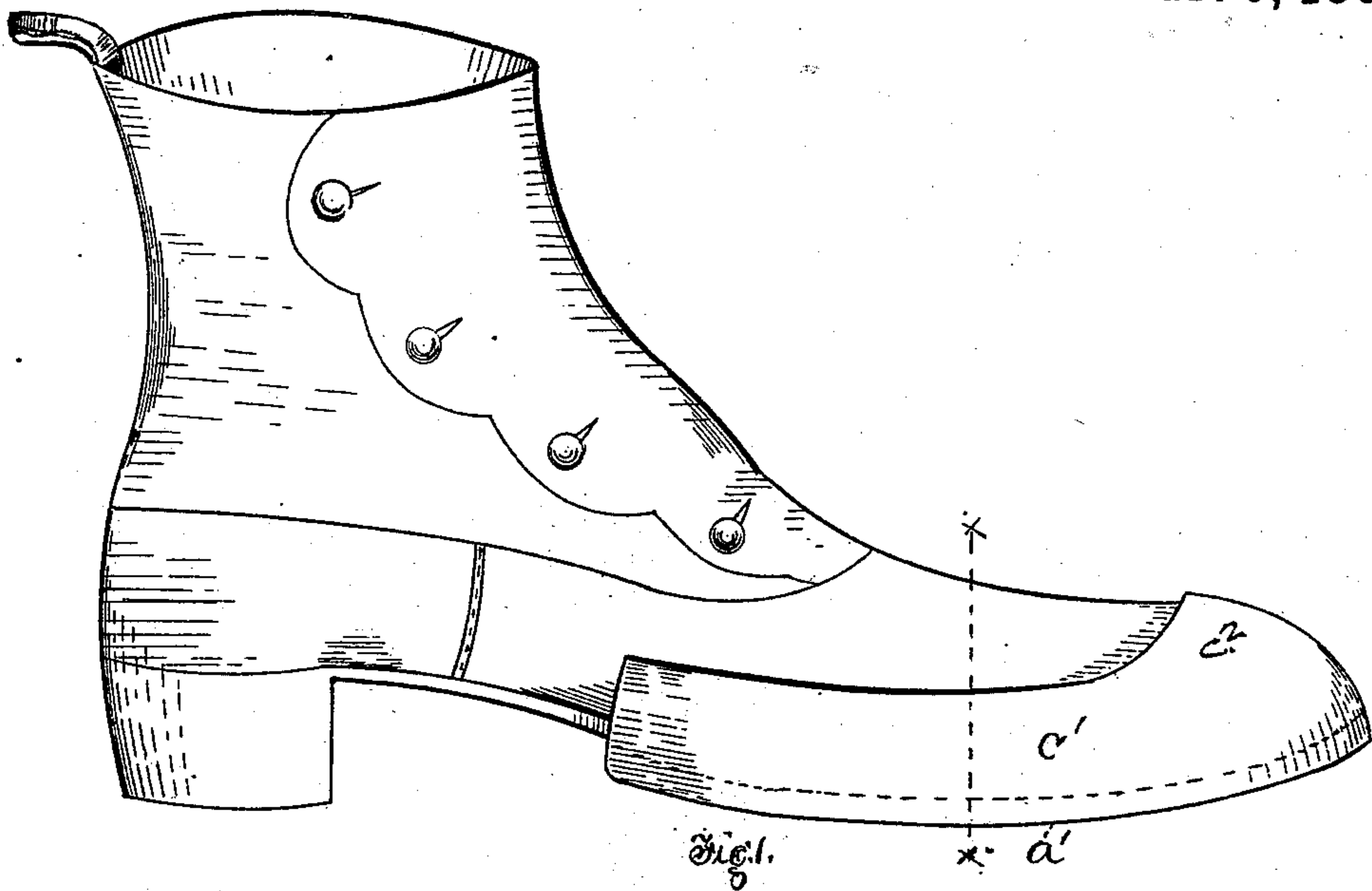
(No Model.)

A. C. W. CAIN.

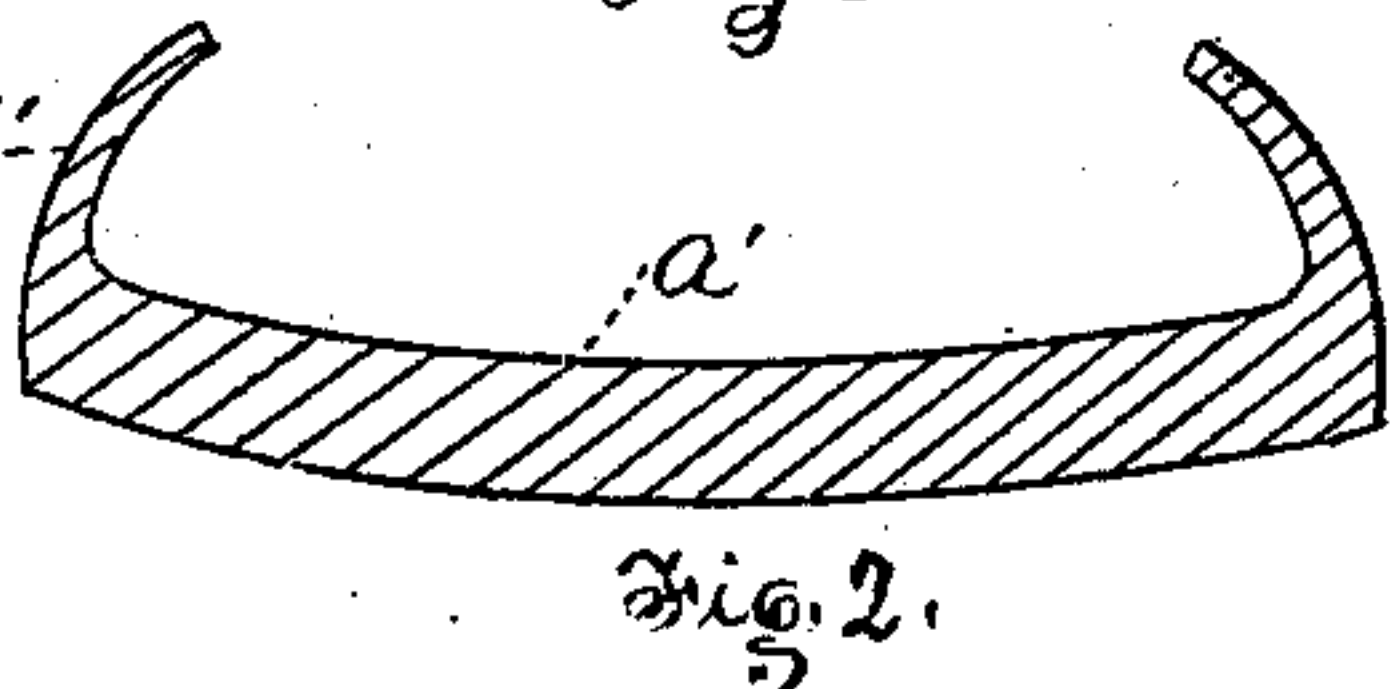
WOODEN HALF SOLE FOR BOOTS OR SHOES.

No. 273,460.

Patented Mar. 6, 1883.



WITNESSES.  
R. W. Smith  
J. K. Smith



INVENTOR  
Andrew C. W. Cain  
by his attys  
Bakerwell & Co.

# UNITED STATES PATENT OFFICE.

ANDREW C. W. CAIN, OF PITTSBURG, PENNSYLVANIA.

## WOODEN HALF-SOLE FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 273,460, dated March 6, 1883.

Application filed November 2, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ANDREW C. W. CAIN, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Wooden Half-Soles for Boots or Shoes; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of a shoe provided with my improved half-sole. Fig. 2 is a sectional view on the line  $xx$ , Fig. 1. Fig. 3 is a detached perspective view of the improved half-sole.

Like letters refer to like parts wherever they occur.

My invention is designed to provide a cheap, durable, and efficient attachable and detachable half-sole or sandal for boots or shoes, and is especially useful where the soles of boots or shoes are partially worn.

In rolling-mills and like places, where workmen are compelled to walk over hot surfaces, it is very desirable to have a cheap and efficient means for protecting and preserving the leather, which is soon cracked and destroyed by high heat, and where the same means is equally a protection against dampness and cold an additional valuable result is obtained. I have therefore devised a sandal or half-sole and foxing to be formed entirely of wood, which is especially adapted to the purpose, because it is light and cheap, and because the partial charring of the wood by hot surfaces does not materially affect its wearing quality or durability.

I will now proceed to describe my invention more specifically, so that others may make and use the same.

In the drawings,  $a'$  indicates the sole or half-sole, having their converging sides  $c'$  adapted to clamp over and protect the side of the shoe, and meeting at the front in a toe-recess,  $c^2$ , of such depth as will properly receive the toe of the shoe, protect the leather thereof, and prevent the half-sole from escaping from the foot of the wearer. The side pieces,  $c'$ , and toe-

piece  $c^2$  form a foxing integral with the half-sole  $a'$ .

The foxed half-sole composed of the parts  $a'$   $c'$   $c^2$  may be readily formed by turning from a solid block and then recessing it to obtain the proper sized and shaped cavity.

In use the half-sole is slipped over the shoe, as shown in Fig. 1, and will readily retain its position; but if it is desired to attach it permanently the same can be done by driving two or three pegs through the sole, or if only temporarily, then by using a screw or like removable fastening device.

The half-sole thus described may be used with boots or shoes the soles of which have become partially or completely worn, either as a protector for temporary use or as a tight sole to enable the boot or shoe to be used until the uppers are worn out. It is specially useful in mills and other places where the workmen are compelled to walk over hot surfaces and require to have an adequate protection for the soles of their feet. Its cheapness, lightness, and convenience in putting on and off fit it especially for this class of workmen, as it enables them to wear their shoes much longer and does not burden them with extra weight, and is a non-conductor of heat. The sole can be made of any desired thickness without any material increase of cost. It is more durable than leather, will keep the feet dry in wet weather, and, being a non-conductor, will increase the warmth of the shoe. It may be used temporarily in wet weather by simply slipping it on the shoe and removing it when the necessity for its use ceases.

What I claim as my invention, and desire to secure by Letters Patent, is—

A detachable wooden half-sole or sandal having the side pieces and toe piece or foxing integral with the half-sole, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand this 28th day of October, A. D. 1882.

ANDREW C. W. CAIN.

Witnesses:

JNO. K. SMITH,  
W. B. CORWIN.