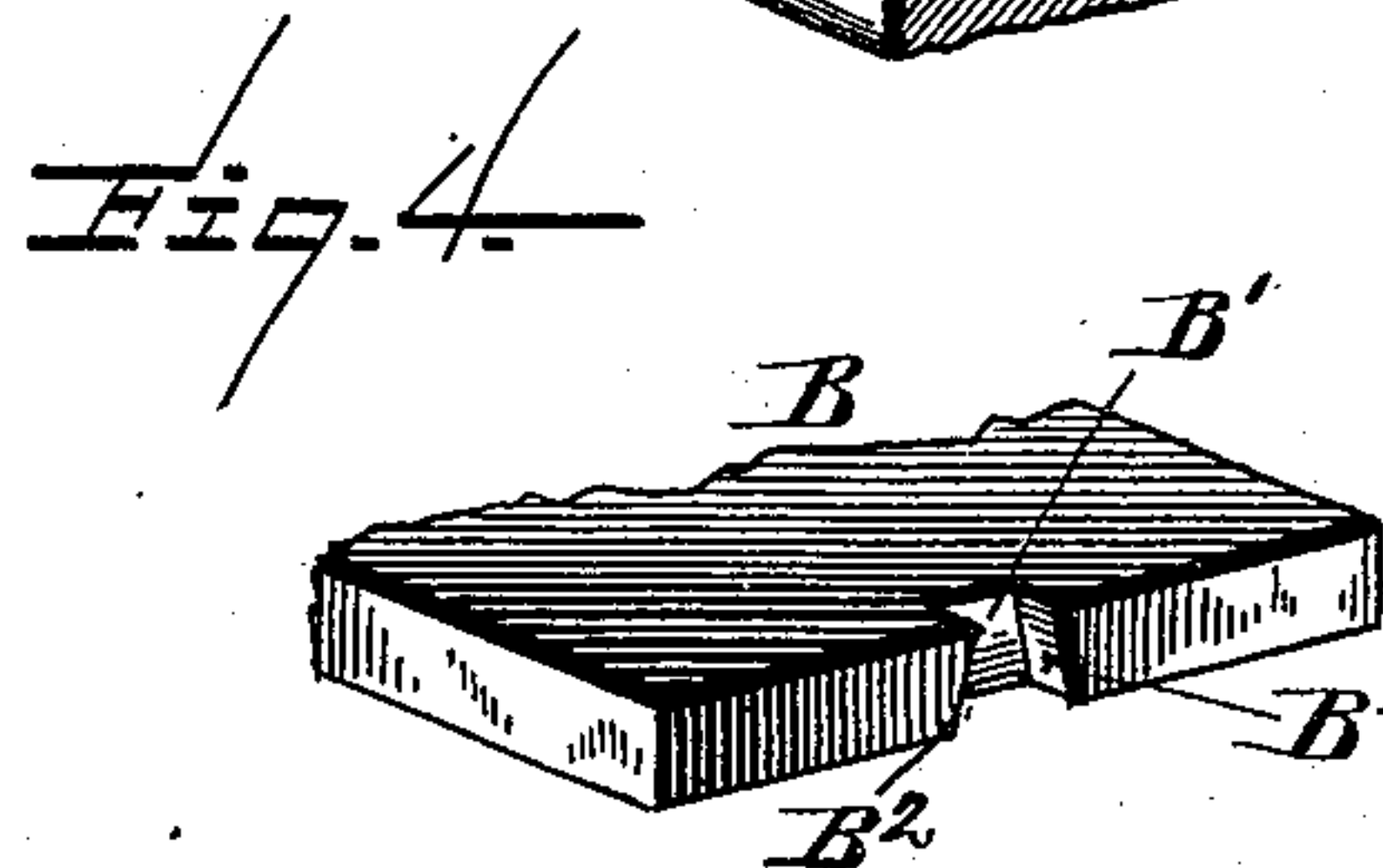
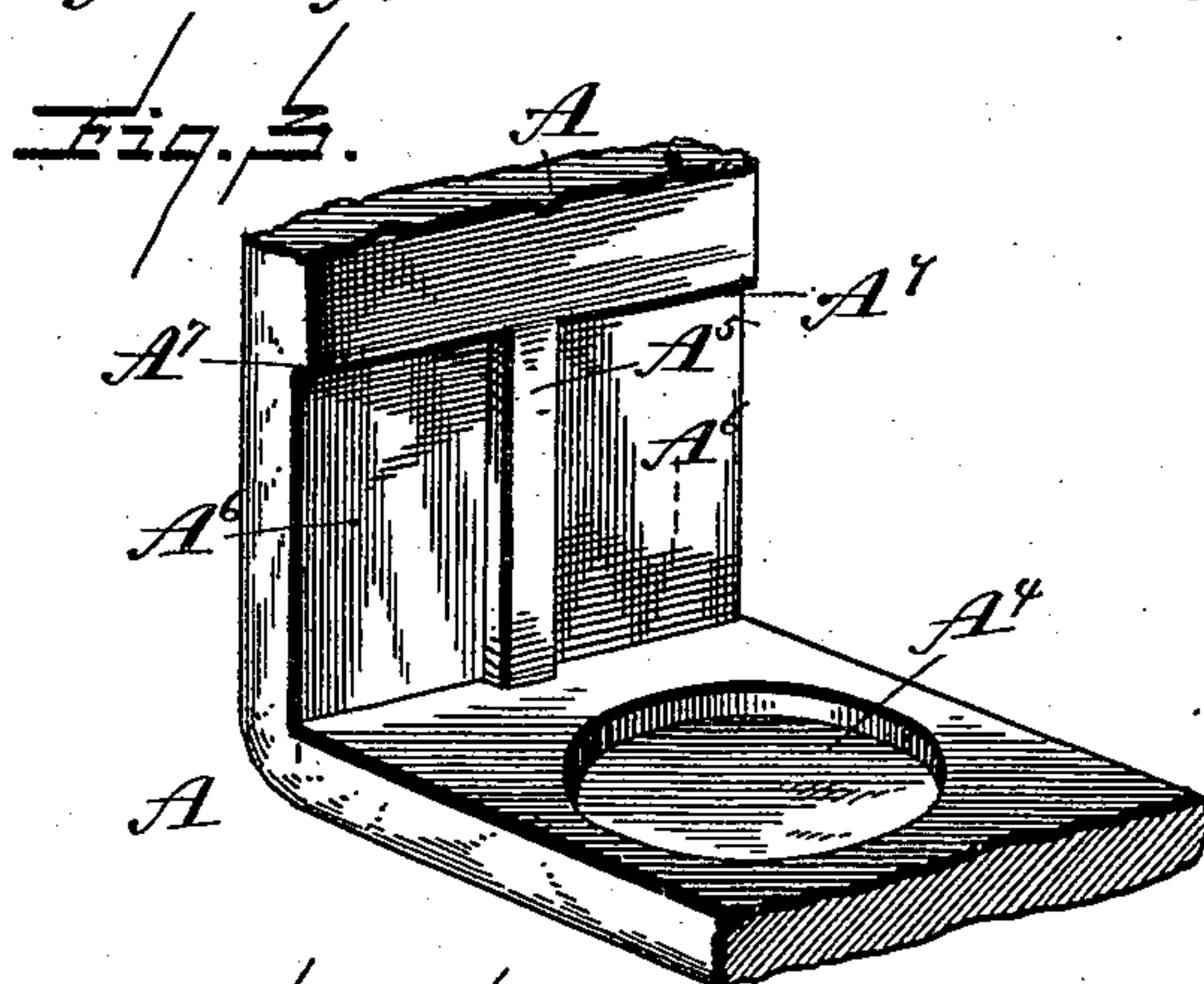
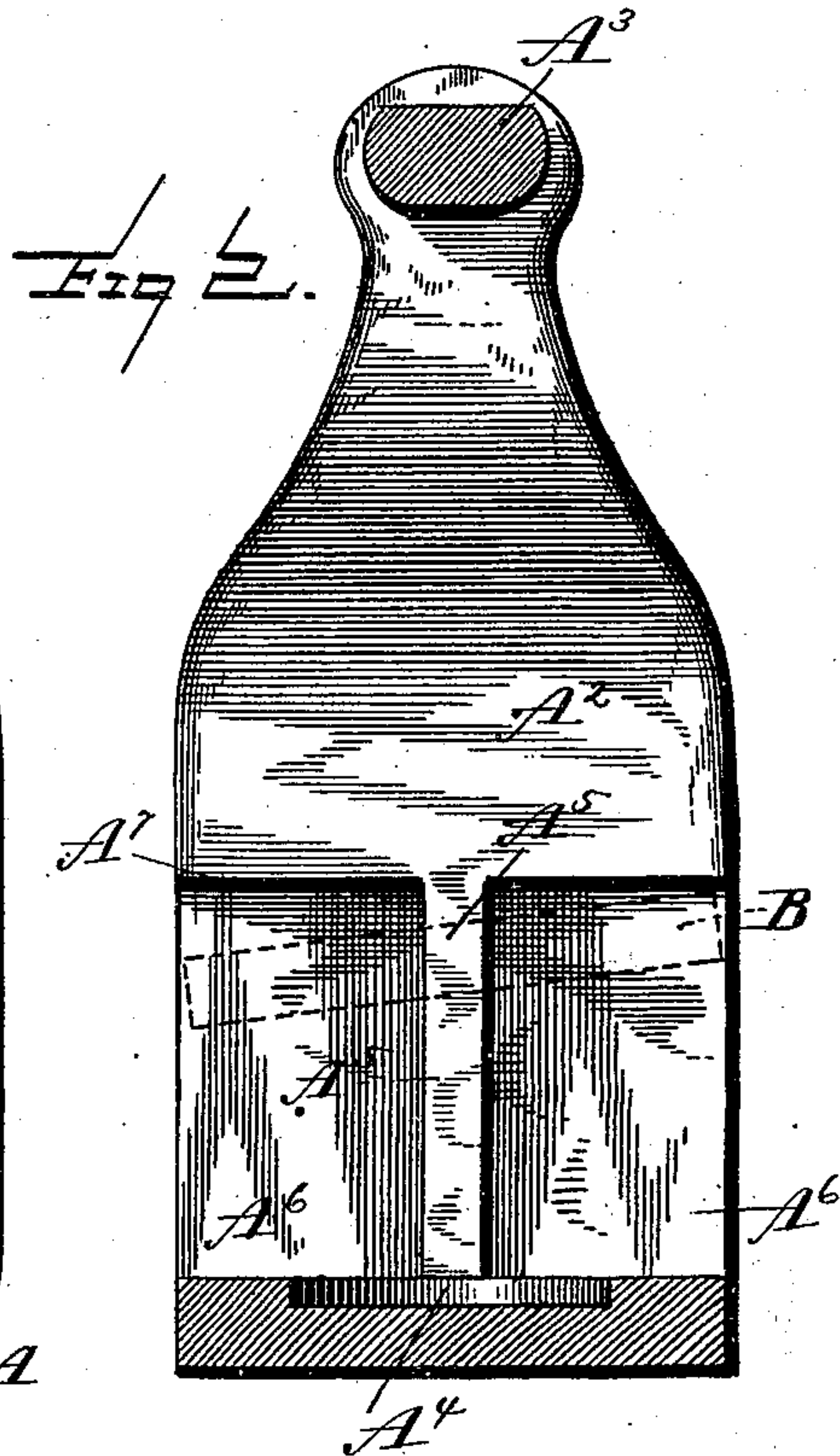
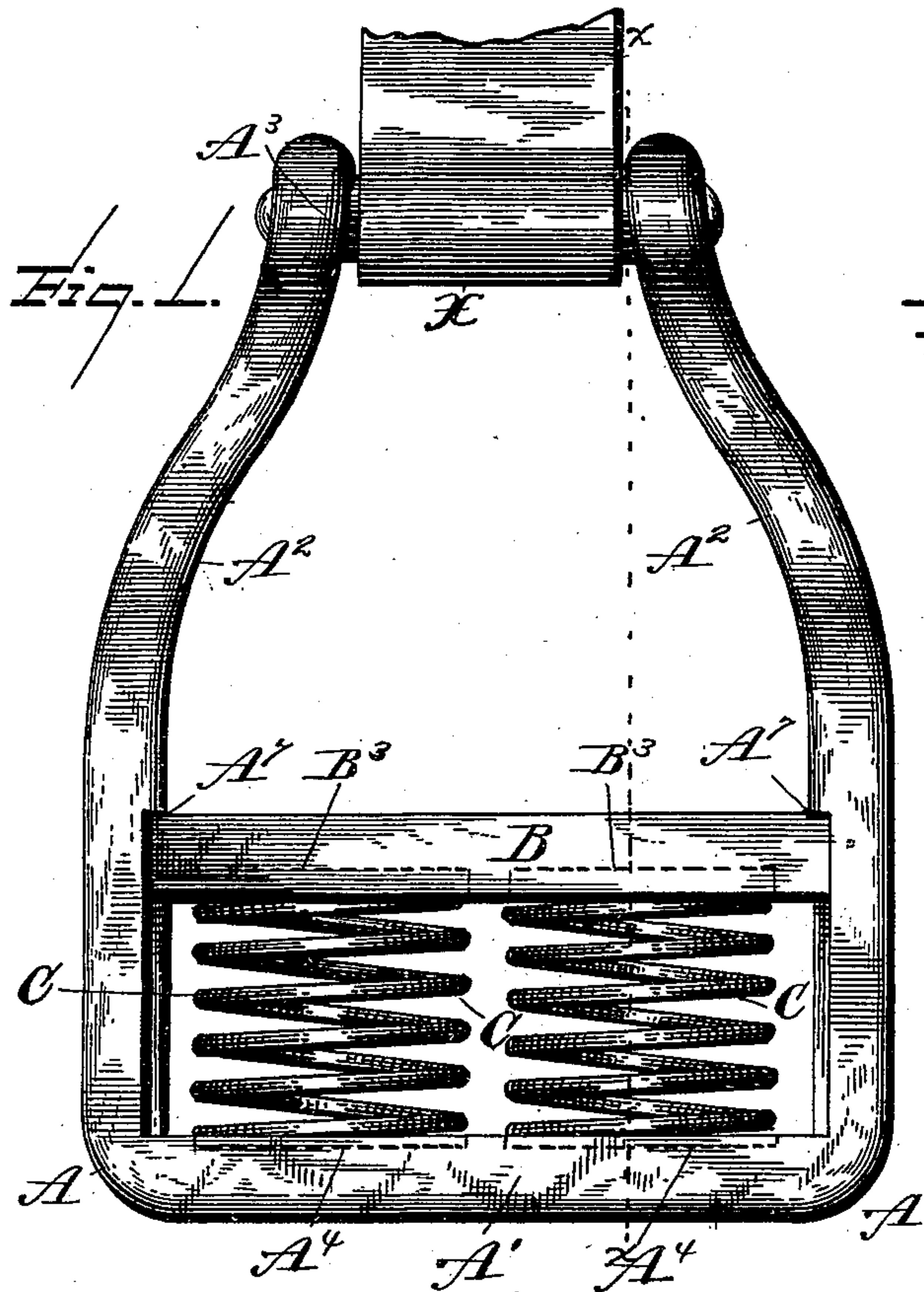


(No Model.)

N. C. JONES.
STIRRUP.

No. 355,695.

Patented Jan. 11, 1887.



WITNESSES
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NORMAN C. JONES, OF GARDEN CITY, KANSAS.

STIRRUP.

SPECIFICATION forming part of Letters Patent No. 355,695, dated January 11, 1887.

Application filed May 13, 1886. Serial No. 202,059. (No model.)

To all whom it may concern:

Be it known that I, NORMAN C. JONES, a citizen of the United States, residing at Garden City, in the county of Sequoyah, State of Kansas, have invented certain new and useful Improvements in Stirrups, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has relation to stirrups, the object being to provide a simple, strong, serviceable, and durable stirrup which can be manufactured at a minimum cost, and which shall give an easy cushion-like yielding support to the foot of the rider when in use; and the invention consists in certain features of construction, hereinafter specified, and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a side elevation of a stirrup constructed in accordance with my invention. Fig. 2 is a vertical section on the line *x* of Fig. 1, the foot-plate being shown in dotted lines. Fig. 3 is a perspective of a portion of the stirrup-frame proper. Fig. 4 is a like view of one end of the foot-plate.

Like letters indicate like parts in all the figures of the drawings.

A represents the frame of the stirrup, which is preferably made of one piece of wood; or, if desired, it may be of metal bent or otherwise brought to the form shown—that is to say, having a cross-bar, A', at its bottom and two side arms, A², extending from the bar A' upwardly, and brought toward each other at the top, and connected by a rod, bar, or bolt, A³, having a rounded bottom, which bolt is intended to be passed through a loop in the stirrup-strap.

In the cross-bar A' are formed recesses A⁴, the purpose of which will be hereinafter described, and in each of the side arms, A², and extending over the lower half thereof, is a central vertical rib, A⁵, the side rail being in this instance cut away, as at A⁶, to form said rib, whereby also are formed shoulders A⁷.

B represents the foot-plate, which is of any suitable width and of such a length as to fit within the recesses A⁶ in the opposite arms, A², of the frame. Each end of the foot-plate is slotted, as at B', to fit the rib A⁵, so that in

the movement of the foot-plate in the frame it shall be guided by said ribs and slots.

The slot B may have parallel side walls; but in order to permit the foot-plate to assume an inclined position with relation to the bottom A' of the stirrup, as indicated by dotted lines in Fig. 2, the opposite walls, B², or of the slot B' are inclined downwardly and outwardly toward the edges of the foot-plate. Recesses B³ similar to the recesses A⁴ (see dotted lines, Fig. 1) are formed in the bottom of the foot-plate.

C C represent coiled springs, the terminal coils of which, at their lower ends, are arranged in the recesses A⁴, formed in the bottom of the frame, while those at the upper ends of the springs are arranged in the recesses B³, formed in the foot-plate, whereby without any extraneous devices the springs are maintained in operative position and against accidental removal.

The shoulders A⁷, formed in the arms of the stirrup-frame, serve as a positive stop to limit the upward movement of the foot-plate, whereby it is prevented from releasing the springs arranged between it and the bottom of the frame.

This being the construction, the operation is as follows: When the foot of the rider is placed in the stirrup, the foot-plate automatically assumes the natural angle of the sole of the foot, by reason of the compression of one side of the springs being a trifle greater than that of the other side. At the same time, whenever pressure is applied by the foot upon the plate, the springs are bodily compressed, and when said pressure is removed the springs naturally expand, so that there is a cushioning of the foot of the rider, which contributes to his ease and comfort, and also to that of the horse.

Having thus described my invention, its advantages and operation, what I claim, and desire to secure by Letters Patent, is—

1. A stirrup having upon the inner surface of its opposite side arms guide-ribs A⁵; a foot-plate, B, slotted to ride said ribs, and springs arranged between said foot-plate and the bottom or cross bar of the stirrup-frame, the whole being constructed, combined, and arranged substantially as specified.

2. In a stirrup, the combination of side arms provided with recesses A^6 and shoulders A^7 , a foot-plate, B, slotted, as at B' , and springs arranged between the foot-plate and cross-bar A' of the frame, substantially as specified.

3. The combination of the side arms, A^2 , provided with ribs A^5 , cross-bar A' , foot-plate B, slotted, as at B' , the slot having inclined walls B^2 , and the spring C, substantially as specified.

4. The combination of the frame $A'A^2$, having the recesses $A^4 A^6$, the spring C, and the foot-plate B, having the recesses B^3 and the slot B' , substantially as shown and described.

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

NORMAN C. JONES.

Witnesses:

E. B. STOCKING,
WM. S. DUVALL.