

(No Model.)

E. ALLEN.  
SAFETY STIRRUP.

No. 341,987.

Patented May 18, 1886.

FIG. 3.

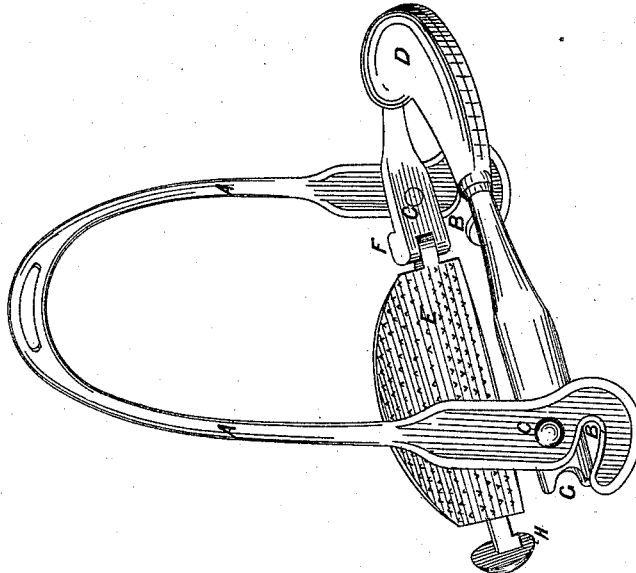


FIG. 2.

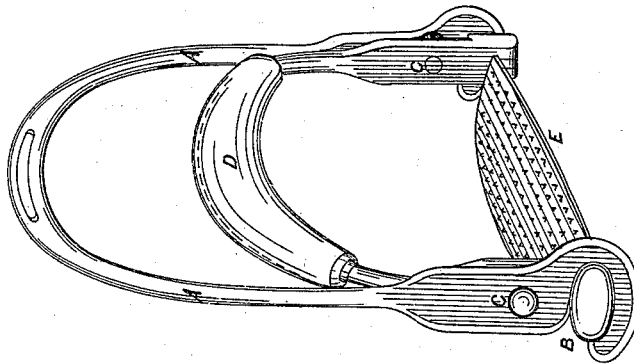
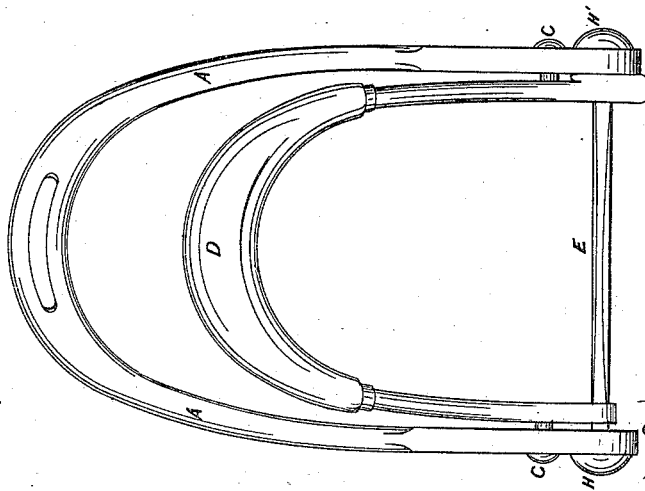


FIG. 1.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## SAFETY-STIRRUP.

SPECIFICATION forming part of Letters Patent No. 341,987, dated May 18, 1886.

Application filed February 3, 1886. Serial No. 190,679. (No model.) Patented in England July 24, 1885, No. 8,940; in France December 19, 1885, No. 173,030, and in Belgium December 23, 1885, No. 71,342.

*To all whom it may concern:*

Be it known that I, ENOCH ALLEN, a subject of the Queen of England, residing at Harden, near Walsall, in the county of Stafford and Kingdom of England, have invented an Improved Safety-Stirrup, (for which I am applying for Letters Patent in Great Britain, No. 8,940, bearing date July 24, 1885,) of which the following is a specification.

My invention relates to an improved safety-stirrup; and it consists, essentially, in attaching the bottom plate to an inner bow, and also supporting it on one of the legs or sides of the stirrup in such a manner that should the rider be thrown the inner bow will be moved by the foot to an angle which will liberate the bottom plate from the leg or side of the stirrup, leaving it free to open on the inner bow and release the foot of the rider.

On the accompanying sheet of drawings, Figure 1 is a front view or elevation of my improved stirrup, Fig. 2 being a perspective view of the same. Fig. 3 is a similar view to the above, but with the inner bow shown depressed and the bottom plate released.

A A are the legs or side pieces; B B', open or curved slots formed in bottom of same; C C, the trunnions or hinge-pins for inner bow or frame; D, the inner bow or frame; E, bottom plate; F, hinge for securing plate to leg of inner bow; G, recess formed in bottom of leg of inner bow; H, pin in extension of bottom plate; H', pin or extension on leg of inner bow.

It will be seen that in my improved safety stirrup the ordinary legs or side pieces, A, are made with open slots or curved bearings B B', and that above these slots I provide bearings at C to carry the inner bow. D, by suitable studs or projections thereon. To this inner bow, D, I attach the bottom plate, E, of the stirrup, hinging it to one of the legs or sides of the bow D at F, and at the bottom of the opposite side or leg of the bow D, I form a recess, G, to receive a pin or extension, H, of the bottom plate, E, which pin or extension I make of sufficient length to pass to and, if desired, beyond the curved bearing B

in the leg or side of the stirrup A, a corresponding pin or projection, H', Fig. 1, being formed on the opposite side or leg of the inner bow to take into the other curved bearing or slot B'. In its normal condition—that is to say, when closed—the bottom plate, E, of this stirrup will be held at one end by the inner bow, D, and be supported at the other in the curved bearing or slot B on one of the legs or sides of the stirrup A, as shown, Figs. 1 and 2. Now, should the rider be thrown, the pressure of the foot on the bow D will move it to an angle which will bring the extension, stud, or pin H of the bottom plate out of the curved slot or bearing B, leaving it free to turn upon its hinge F, and thus release the foot, as illustrated, Fig. 3.

Although I make a curved slot or bearing upon each leg or side of the stirrup as giving the maximum of support to the inner bow and strengthening the stirrup, I may dispense with the extension H' and slot B', and simply provide a bearing for the bottom plate in one of the legs, the bow being in connection with the other only by the pin or stud upon which it turns.

I propose to make my hinge, slots, bearings, extensions, pins, or studs of whatever shape I may find most suitable for my purpose, and with stops to regulate the extent of opening and pivoting.

My improved stirrup is equally adapted for use by either sex, and the inner bow, D, may, if desired, be padded, as shown.

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

An improved safety-stirrup, having a bottom plate hinged by one end to an inner bow or frame, the other end of the said plate being supported in an open slot in the leg of the outer bow or frame of the stirrup, substantially as described, and for the purpose specified.

ENOCH ALLEN.

Witnesses:

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