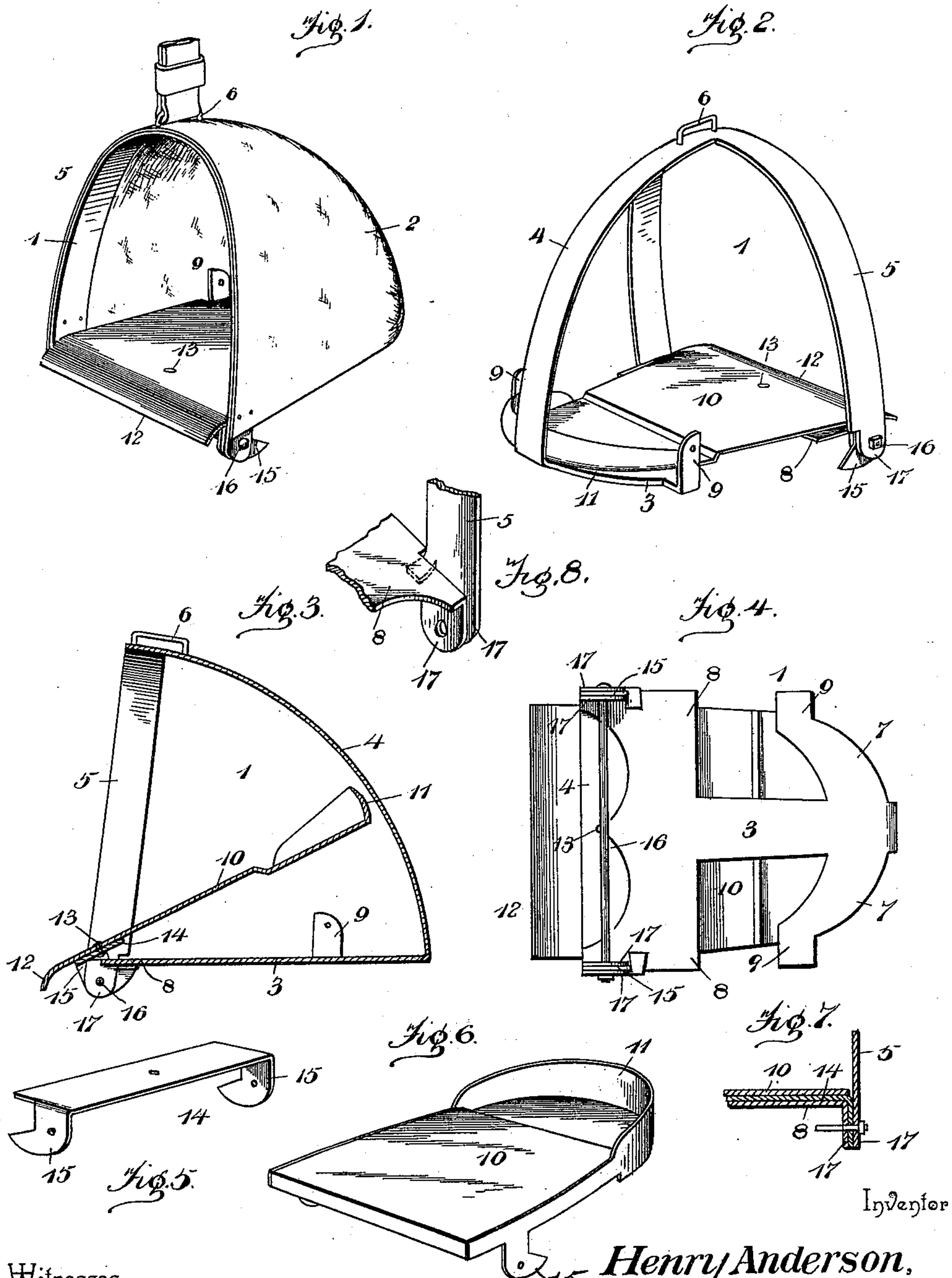


(No Model.)

H. ANDERSON.
STIRRUP.

No. 594,926.

Patented Dec. 7, 1897.



Inventor

Witnesses

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UNITED STATES PATENT OFFICE.

HENRY ANDERSON, OF SUMNER, WASHINGTON.

STIRRUP.

SPECIFICATION forming part of Letters Patent No. 594,926, dated December 7, 1897.

Application filed April 24, 1897. Serial No. 633,730. (No model.)

To all whom it may concern:

Be it known that I, HENRY ANDERSON, a citizen of the United States, residing at Sumner, in the county of Pierce and State of Washington, have invented a new and useful Stirrup, of which the following is a specification.

The invention relates to improvements in stirrups.

The object of the present invention is to improve the construction of stirrups and to provide a simple and comparatively inexpensive one which will be strong and durable and which will prevent the foot of a rider from being caught in it should he fall or be thrown from a horse.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is perspective view of a stirrup constructed in accordance with this invention. Fig. 2 is a similar view, the leather covering being removed from the stirrup-frame. Fig. 3 is a longitudinal sectional view, the foot-plate being tilted. Fig. 4 is a reverse plan view. Fig. 5 is a detail perspective view of the hinged connecting-plate. Fig. 6 is a detail perspective view illustrating a modification of the foot-plate. Fig. 7 is a detail sectional view illustrating the manner of hinging the connecting-plate to the stirrup-frame. Fig. 8 is a detail view of a portion of the stirrup-frame.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

1 designates a stirrup-frame designed to be provided with a covering 2, of leather or other suitable material, and comprising a bottom portion 3, a curved front portion 4, which is disposed at an inclination, and an arched back portion 5, extending upward from opposite sides of the bottom 3 to the rear end of the front portion 4. The stirrup-frame is preferably cast in a single piece, and it is provided at its top with a longitudinally-disposed eye 6 for the reception of the stirrup-strap.

The bottom portion 3 of the stirrup-frame is composed of a central longitudinal bar and laterally-extending arms 7 and 8, located at the front and rear of the central longitudinal

bar, and the front arms 7, which are curved, are provided at their terminals with upwardly-extending lugs 9, adapted to have the covering 2 secured to them, and the said covering is also attached to the lower portions of the sides of the back 5 of the stirrup-frame.

Within the stirrup-frame is mounted a tilting foot-plate 10, which is also capable of a limited lateral movement between the upwardly-extending lugs 9 independent of the stirrup-frame to permit the latter to vibrate in such direction without affecting the position of the foot of the rider. The front portion of the foot-plate is depressed and rounded to conform to the configuration of the toe of the rider, and it is provided with an upwardly-extending curved flange 11, slightly tapering at its ends and forming a stop or bearing which fits the toe of a rider. The rear edge 12 of the foot-plate is curved downward to avoid catching in the foot of the rider.

The tilting foot-plate, which may be constructed wholly of metal or partly of wood and metal, is secured by a pivot 13 to a connecting-piece 14, which is hinged directly to the stirrup-frame, being arranged on the upper face of the bottom 3 at the back thereof. The connecting-piece 14 is provided at its end with depending substantially L-shaped arms 15, which are perforated for the reception of a transverse pintle 16, which also passes through perforations of a pair of depending ears 17, located at each side of the frame. The depending perforated ears 17, which are arranged in pairs at each side of the stirrup-frame, have the arms 15 located between the members of each pair and extending forward therefrom and arranged to abut against the lower face of the bottom 3 to limit the tilting action of the foot-plate, and the sides of the frame are provided with openings for the passage of the arms 15.

The connection between the foot-plate and the stirrup-frame permits the former to be tilted and swung rearward by a downward movement of the heel, and it serves to throw the foot of the rider out of the stirrup and prevent it from being caught should he be thrown off or fall from a horse.

The foot-plate illustrated in Fig. 6 of the drawings is constructed of wood and is provided at its front and side edges with a metal

binding-strip, which is extended to form the flange to be engaged by the toe of the rider. The pintle is removable, being provided at one end with a nut, and, if desired, a foot-plate may be hinged directly to the stirrup-frame by providing arms 15, as shown in Fig. 6.

The invention has the following advantages:

10 The stirrup, which is strong and durable, is simple and comparatively inexpensive in construction and adapted to prevent the foot of a rider from being caught in it. If a rider should happen to become jammed close to other horses or against a fence, tree, or other obstruction, so that the stirrup-frame cannot be moved, the lateral movement of the foot-plate will enable the rider to spur his horse.

20 Another advantage of the pivotal movement of the foot-plate is that it permits the rider to turn and look backward without twisting the stirrup-strap.

A further advantage of such construction is that if a rider should fall sidewise or forward from his horse his position would be such that the backward tilting of the foot-plate would not operate to release his foot quickly, and it might become jammed and caught in the stirrup-frame were it not for the lateral movement of the foot-plate, which would permit the foot to turn in the stirrup-frame and be quickly withdrawn therefrom.

What I claim is—

1. A stirrup comprising a stirrup-frame, and a tilting foot-plate arranged to swing rearward to throw the foot of a rider out of the stirrup and capable of a limited lateral movement independent of the stirrup-frame to permit the latter to vibrate without affecting the position of the foot of the rider, substantially as and for the purpose described.

2. A stirrup comprising a stirrup-frame, a connecting-piece hinged to the bottom of the stirrup-frame at the back thereof and capable of swinging rearwardly, and a tilting foot-plate pivoted to the connecting-piece and capable of a limited lateral swing independent of the stirrup-frame to permit the latter to vibrate without affecting the position of the foot of the rider, substantially as described.

3. A stirrup comprising a stirrup-frame provided at the front portion of its bottom with curved arms having upwardly-extending lugs, a connecting-piece hinged to the bottom of the stirrup-frame at the back thereof, and a tilting foot-plate pivoted to the connecting-piece and capable of a limited lateral swing between the said lugs to permit the stirrup-frame to vibrate without affecting the position of the foot of the rider, said foot-plate being provided at its front with an upwardly-extending flange arranged to be engaged by the toe of the rider, substantially as described.

4. A stirrup comprising a stirrup-frame provided at opposite sides with openings and having depending perforated ears arranged in pairs at opposite sides of the openings, a tilting foot-plate, and substantially L-shaped arms connected with the foot-plate and pivoted between the perforated ears in the said openings and extending forward in position to engage the bottom of the stirrup to limit the tilting of the foot-plate, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HENRY ^{his} X ANDERSON.
mark

Witnesses:

ALBERT R. HEILIG,
C. F. JOHNSON.