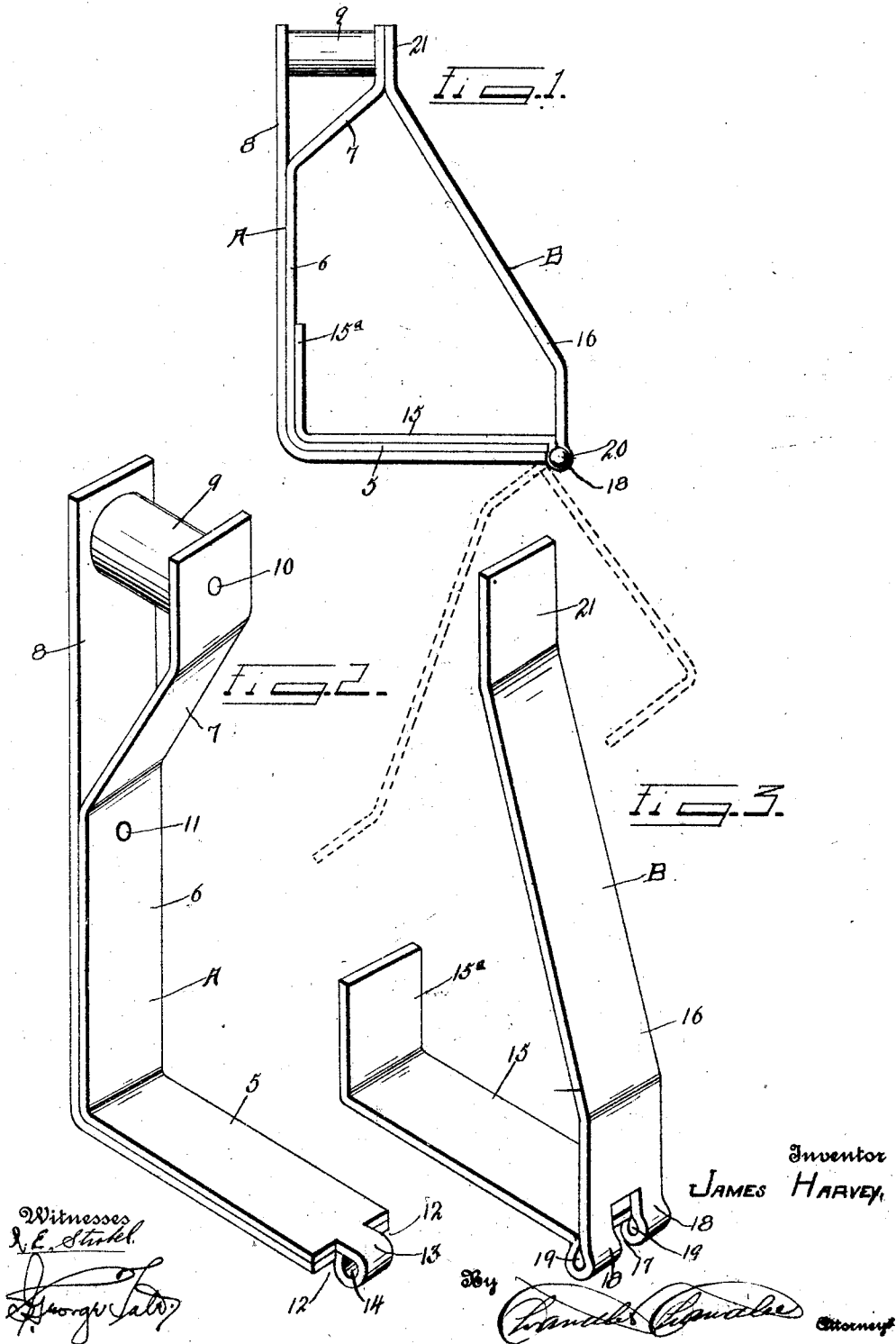


J. HARVEY.
SAFETY STIRRUP.
APPLICATION FILED MAR. 23, 1911.

1,005,029.

Patented Oct. 3, 1911.



UNITED STATES PATENT OFFICE.

JAMES HARVEY, OF CALLAWAY, NEBRASKA.

SAFETY-STIRRUP.

1,005,029.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES HARVEY, a citizen of the United States, residing at Callaway, in the county of Custer, State of Nebraska, have invented certain new and useful Improvements in Safety-Stirrups; and I 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 to make and use the same.

This invention relates to stirrups, more particularly to safety stirrups, and has for its principal object to provide a device of this character which is adapted to release the rider's foot should he accidentally fall from a horse.

Another object of the invention is to provide a stirrup for the purpose described, which is extremely simple in construction and is cheap to manufacture.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a front elevation of a stirrup constructed in accordance with my invention. Fig. 2 is a perspective view of one portion of the stirrup. Fig. 3 is a perspective view of another portion of the stirrup.

Like reference numerals designate corresponding parts in all the figures of the drawing.

Referring to the drawing, the invention comprises a stirrup which is formed of a normally stationary element A and a movable element B, the latter being pivotally connected to the former.

The stationary element A is preferably formed from a strip of sheet metal and is centrally bent upon itself to form an L-shaped element of double thickness, consisting of a horizontal arm 5 and a vertical arm 6. The end portion 7 of the inner strip is bent outwardly from the end portion 8 of the outer strip to form a brace for supporting a roller 9, said roller being suitably journaled upon a pin 10 as will be readily under-

stood. The inner and outer strips may be secured rigidly together by rivets 11 or any other suitable fastening means. The free end of the horizontal arm 5 is cut away at opposite sides, as shown by reference numerals 12—12, to form a consequent centrally projecting tongue 13. This tongue, which of course includes the bend of the strip, is enlarged to form a transversely disposed bearing 14. The movable element B is also formed from a single strip of sheet metal, and is centrally bent to form a tread portion 15 and an inwardly inclined side arm 16. The tread portion 15 is adapted to lie upon the horizontal arm 5 of the stationary element, and has its free end bent upwardly to form a stop 15^a which normally engages the vertical arm 6 of the said stationary element. The movable element is furthermore provided at its bend with a centrally disposed slot 17, forming consequent ears 18—18. The slot 17 is of a size to freely receive the tongue 13 of the movable member, and the ears 18 are adapted to be positioned in the recesses formed on either side of the said tongue 13. The ears 18, however, are bent downwardly from the tread portion 15, and are respectively enlarged to form aligned bearings 19—19 which are adapted to register with the bearing of the tongue 13. A hinge pin 20 is disposed within these bearings for permitting the movable element to swing upon the stationary element. It will be observed in this connection, that by reason of the ears 18 extending downwardly below the tread plate 15, the said tread plate is permitted to lie flush upon the horizontal arm 5 of the stationary element. The side arm 16 is inclined inwardly, and has its free end 21 disposed at an angle for engagement with the free end of the bracket 7 of the stationary element.

From the foregoing, it will be observed that the movable member is permitted to swing about 270 degrees around its pivot, thereby assuring a positive release of the foot of the rider from the stirrup. It will also be observed that the stop 15^a of the movable element will engage the inner side of the rider's shoe, and will thereby prevent his foot from contacting with the brace 7 when the movable element is thrown into operation. This stop will also assist in the return of the movable member to its normal position, and when in said position will assist in retaining the member.

What is claimed is:—

1. In a safety stirrup, a normally stationary element including horizontal and vertical arms formed from a single strip of metal bent upon itself to form a double thickness strip, the free end of the inner strip being bent outwardly to form a brace, a roller supported between the free ends of the strip, a movable element including a tread portion and a side arm pivoted at their juncture to the free end of the horizontal arm, and a stop projecting upwardly from the free end of said tread portion.

2. In a safety stirrup, a normally stationary element including horizontal and vertical arms formed from a single strip of metal bent upon itself to form a double thickness strip, the free end of the horizontal arm being cut away to form a consequent cen-

trally projecting tongue, said tongue being enlarged to form a transversely disposed bearing, a movable element formed from a single strip of metal centrally bent to form a tread portion and an inwardly inclined side arm, the tread portion having its free end bent upwardly to form a stop, said movable element being provided at its bend with a centrally disposed slot forming consequent ears, said ears being bent downwardly and enlarged to form aligned bearings, and a hinge pin disposed within said bearings for connecting the said elements.

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

JAMES HARVEY.

Witnesses:

J. E. FELKER,

S. M. SEYERSON.