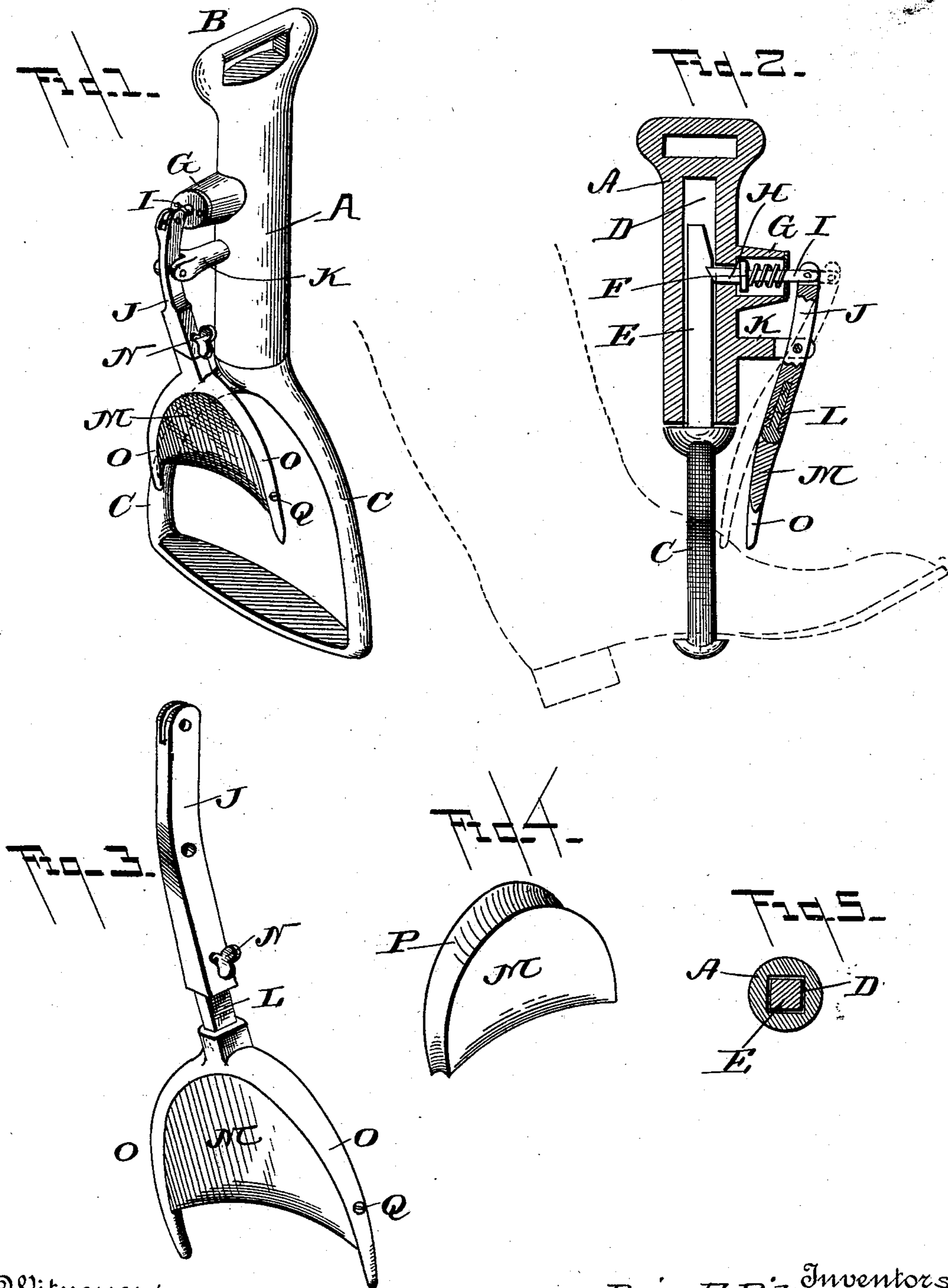


(No Model.)

B. E. RIKER & A. GREEN.
STIRRUP.

No. 509,139.

Patented Nov. 21, 1893.



Witnesses:
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UNITED STATES PATENT OFFICE.

BRICE EDWIN RIKER, OF BRANCHVILLE, NEW JERSEY, AND ALEXANDER GREEN, OF BROOKLYN, NEW YORK.

STIRRUP.

SPECIFICATION forming part of Letters Patent No. 509,139, dated November 21, 1893.

Application filed March 6, 1893. Serial No. 464,706. (No model.)

To all whom it may concern:

Be it known that we, BRICE EDWIN RIKER, a resident of Branchville, in the county of Sussex and State of New Jersey, and ALEXANDER GREEN, a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Stirrups; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of our improved safety stirrup. Fig. 2 is a side view of the same, showing some of the parts in section. Fig. 3 is a detail view of the safety-fork, with its removable and adjustable toe-plate. Fig. 4 is a detail view of said toe-plate, removed from the fork; and Fig. 5 is a cross section on line *x—x* in Fig. 2.

Like letters of reference denote corresponding parts in all the figures.

This invention has relation to safety stirrups, and our improvement consists in the novel construction and combination of parts of a stirrup of that type as will be hereinafter more fully described and claimed.

Referring to the drawings, the letter A denotes the tubular stem or socket piece of the stirrup, shown at C, said stem being cast with a loop or eye, B, at its upper end, for its attachment to the stirrup straps (not shown). The stem B has a central recess or socket, D, extending its entire length and preferably square in cross-section, as shown in Fig. 5, into which fits loosely the square shank E of stirrup C, said shank having on one side a notch or recess F. On that side of the stem or socket A facing the notched side of the square shank E is a hollow boss or offset G, forming a chamber or recess for the spring-latch H, the stem or arm I of which projects out through an aperture in the end of the

boss and is articulated to the upper end of a lever J of the first class, which has its fulcrum in an arm or bearing, K, secured to and projecting laterally from the stem or socket A, in alignment with the boss G. The lower end of the lever J, is formed with a central upwardly extending recess to receive the stem L of a foot plate M, and is provided with a thumb screw N, by which said stem may be vertically adjusted. The foot plate which is of the same general contour as the stirrup, may be made integral with the stem L, or it may be made separate, and the stem formed with two downwardly extending curved arms O, which engage with a groove P formed in the convex edge of the plate. The plate in this instance is secured in place by means of countersunk screws Q. The lower edge of the plate is concaved, and we prefer to make it removable so that it can be replaced by others to accommodate different sizes of feet.

The operation will be readily understood. To engage the shank E with the socket piece, the former is pushed up into the recess D, the upper end thereof striking the beveled end of the latch H, pushing it out and holding it in this position until the notch F registers with said beveled end when the latch will be forced into engagement therewith, securely connecting the stirrup and socket piece together.

In case the rider is thrown from the saddle the forward part of the foot will strike the lower edge of the foot plate, pressing it in toward the stirrup and forcing the upper end of the lever outwardly, disengaging the latch from the notch, and disconnecting the stirrup from the socket piece.

Having thus described our invention, what we claim is—

1. The combination with the stirrup having a shank, formed with a notch or recess, of the socket piece having a recess to receive said shank, the actuated latch, the lever connected therewith, having a recess in its lower end, and a set screw, and the foot plate hav-

ing a vertically adjustable stem located in said recess, substantially as and for the purpose set forth.

2. The combination with the stirrup having a shank formed with a notch or recess, of the socket piece having a recess to receive said shank, the spring actuated latch, the lever connected therewith having a recess in its lower end, the stem fitting in said recess formed with curved arms, the removable foot piece embraced by said arm and the retaining screws, substantially as described.

In testimony that we claim the foregoing

as our own we have hereunto affixed our signatures in presence of two witnesses.

BRICE EDWIN RIKER.
ALEXANDER GREEN.

Witnesses to the signature of Brice Edwin Riker:

C. H. CRISMAN,
Mrs. IRA COSS.

Witnesses to the signature of Alexander Green:

MARY A. MADDEN,
DAVID B. HUTTEN.