No. 808,333. PATENTED DEC. 26, 1905.

F. H. AUDLEY.

STIRRUP.

APPLICATION FILED MAR. 14, 1905.

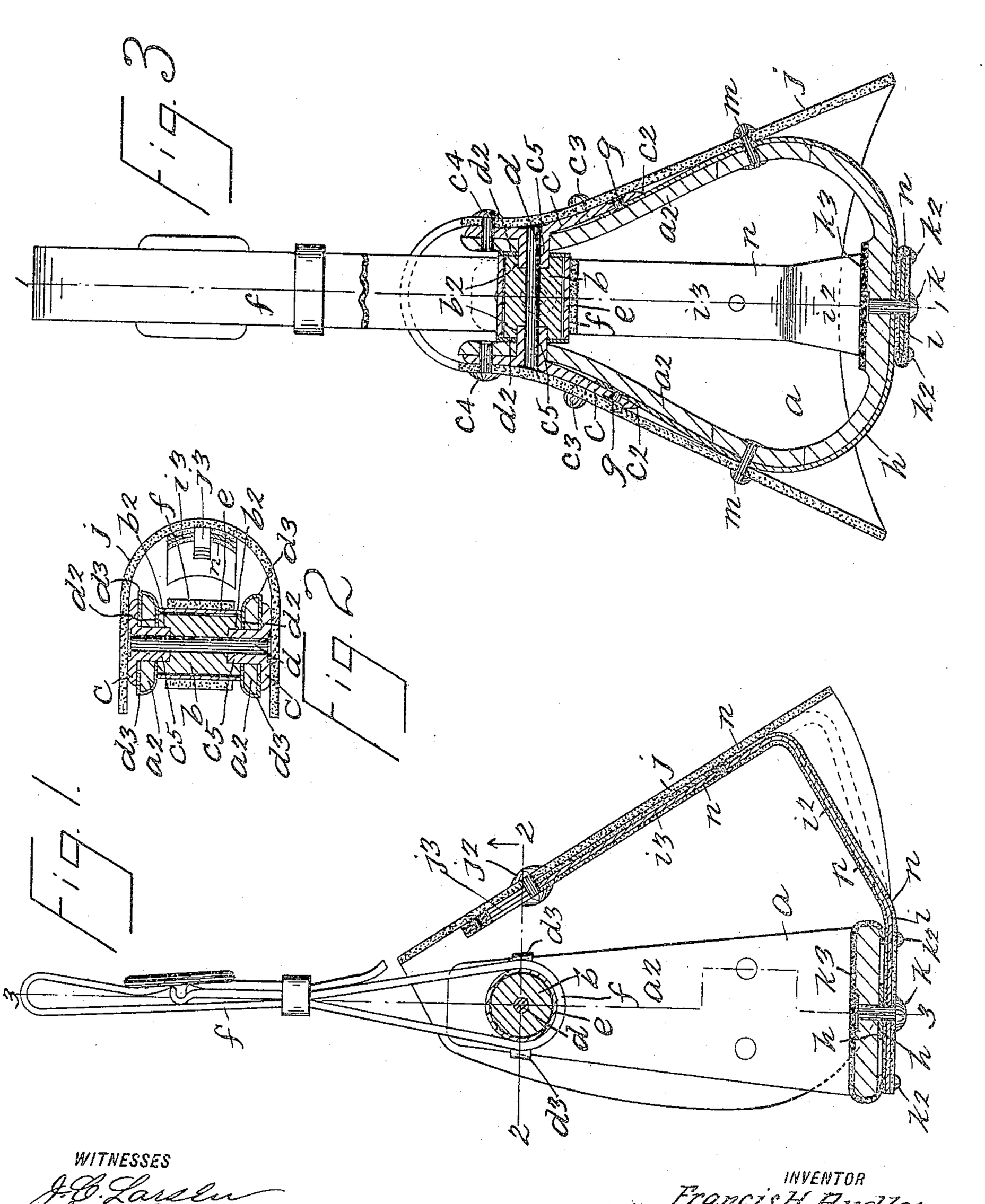

Fig. 3.

Fig. 2.

Fig. 1.

WITNESSES

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STIRRUP.

No. 808,333. Specification of Letters Patent. Patented Dec. 26, 1905.

Application filed March 14, 1905. Serial No. 249,983.

To all whom it may concern:

Be it known that I, FRANCIS H. AUDLEY, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Stirrups, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to saddle-stirrups; and the object thereof is to provide an improved device of this class which is particularly designed for use by mounted police and cavalry, but which may be used wherever stirrups of this class are employed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a central vertical section of my improved stirrup, taken on the line 1 1 of Fig. 3; Fig. 2, a transverse section on the line 2 2 of Fig. 1, and Fig. 3 a section at right angles to that shown in Fig. 1 and taken on the line 3 3 of said figure.

In the practice of my invention I provide a stirrup the body or foot receiving portion a of which is composed of wood, leather, hard-pressed fiber-pulp, or similar material, and mounted between the upper ends of the upwardly-directed side members a^2 of the body or foot-receiving portion is a roller b.

Secured to the outer sides of the top portions of the side members a^2 of the body or foot-receiving portion of the stirrup are curved metal plates c, which extend downwardly a predetermined distance on the side members a^2, as shown at c^2, and which are secured to the side members a^2 by rivets c^4 at the top of said plates, and said plates are provided with inwardly-directed tubular journals c^5, the inner ends of which fit in corresponding sockets b^2 in the roller b, and passed through said roller and through said tubular journals is a spindle d, the outer ends of which are riveted or headed by riveting, and the spindle d serves as a support for the roller b and binds said roller between the side members a^2 of the body portion of the stirrup.

Between the ends of the roller b and the side members a^2 of the body portion of the stirrup are placed washers d^2, having side arms d^3, which are folded outwardly and around the side members a^2 of the body portion of the stirrup and are held in place by the plates c, and I also preferably mount on the roller b a sleeve or casing e, which is free to turn on said roller, and the stirrup-strap f in the form of construction shown is passed around said sleeve or casing e.

Secured to the lower ends of the plates c, in the form of construction shown, by means of rivets g, is a metal band h, which passes entirely around the body or foot-receiving portion of the stirrup and beneath the same, and this band h may be connected with the plates c in any desired manner or may be formed integrally therewith.

Secured to the bottom of the body portion of the stirrup and ranging forwardly and backwardly across the same is a strong spring-arm i, a part i^2 of which projects a predetermined distance in front of the stirrup and is provided with an upwardly and backwardly directed supplemental portion i^3, which bears on the inner side of the hood j and the upper end portion of which is connected with the front top portion of said hood by a rivet j^2, passed through said hood and through a slot j^3 in the upper end portion of the supplemental arm i^3. The connection of the arm i with the bottom portion of the stirrup in the form of construction shown is made by a rivet k and by screws, nails, or similar devices k^2, and on the tread portion of the stirrup is placed a cushion of rubber or similar material k^3.

The hood j is secured to the side members of the stirrup by rivets, transversely-arranged staples, or similar devices m at the bottom of the side members a^2 of the body portion of the stirrup, and the rivets c^4 are also passed through the hood, and in place of these rivets transversely-arranged staples may be employed, if desired, and rivets c^3 also connect the sides of the hood with the plates c.

In the use of this stirrup the toe presses on the part i^2 of the spring-arm i, which is curved upwardly slightly, and when pressure is applied to said part i^2 of said arm it is depressed, as shown in dotted lines in Fig. 1, the supplemental arm member i^3 being movable on the inner surface of the hood j, and the supplemental arm member i^2 serves to hold the hood j in proper form at all times and prevents the drawing, wrinkling, or contraction of said hood which results from a rigid connection of the arm member i^2 therewith, as is ordinary

in this class of stirrups. The spring-arm *i*, together with the supplemental parts thereof, is also preferably covered with leather, as shown at *n*.

A stirrup made in this manner will stand any amount of strain or weight, and the roller *b* cannot be pulled out, and the tops of the side members a^2 of the stirrup-body are also prevented from splitting.

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

1. A stirrup, the body portion of which is composed of wood, wood fiber or similar material and provided with upwardly-directed side members, plates secured to the outer sides of said side members at the top thereof and provided with inwardly-directed tubular journals which pass through said side members, a spindle passing through said side plates and through said journals, and a roller mounted on said spindle and provided with end sockets adapted to receive the ends of said journals, substantially as shown and described.

2. A stirrup, the body portion of which is composed of wood, wood fiber or similar material and provided with upwardly-directed side members, plates secured to the outer sides of said side members at the top thereof and provided with inwardly-directed tubular journals which pass through said side members, a spindle passing through said side plates and through said journals, and a roller mounted on said spindle and provided with end sockets adapted to receive the ends of said journals, said shanks being also provided with washers at the opposite ends of said roller and said washers being provided with side arms which are folded around the side members of the stirrup, substantially as shown and described.

3. A stirrup, the body portion of which is composed of wood, wood fiber or similar material and provided with upwardly-directed side members, plates secured to the outer sides of said side members at the top thereof and provided with inwardly-directed tubular journals which pass through said side members, a spindle passing through said side plates and through said journals, and a roller mounted on said spindle and provided with end sockets adapted to receive the ends of said journals, said shanks being also provided with washers at the opposite ends of said rollers and said washers being provided with side arms which are folded around the side members of the stirrup, and said plates being provided with a metal band which passes beneath the bottom portion of the stirrup, substantially as shown and described.

4. A stirrup composed of wood, wood fiber or the like, the top side portions thereof being provided with metal plates which are secured to the outer sides thereof, said metal plates being provided with inwardly-directed tubular journals which pass through said sides, a spindle passed through said plates and journals, a roller mounted on said spindle, and washers placed at the ends of said roller and provided with side arms which are folded around the top side portions of the stirrup and held in place by said plates, substantially as shown and described.

5. A stirrup composed of wood, wood fiber or the like, the top side portions thereof being provided with metal plates which are secured to the outer sides thereof, said metal plates being provided with inwardly-directed tubular journals which pass through said sides, a spindle passed through said plates and journals, a roller mounted on said spindle, and washers placed at the ends of said roller and provided with side arms which are folded around the top side portions of the stirrup and held in place by said plates, said plates being also provided with a metal band which passes around the bottom portion of the stirrup, substantially as shown and described.

6. A stirrup of the class described, provided with a hood, the bottom portion of the stirrup being provided with a spring-arm which is secured to the bottom thereof and which extends forwardly and is provided with an upwardly and backwardly directed member, the upper end of which is provided with a longitudinal slot and a rivet or bolt passed through said hood and through said slot, substantially as shown and described.

7. A stirrup of the class described, provided with a hood, the bottom portion of the stirrup being provided with a spring-arm which extends forwardly and upwardly and is provided with an upwardly and backwardly directed member vertically movable on the inner side of said hood, substantially as shown and described.

8. A stirrup, the body or foot portion of which is provided with upwardly-directed side members, a spindle passed through the top portions of said members, a roller mounted on said spindle and washers mounted at the opposite ends of said roller and provided with side arms which are folded around the side members of the stirrup, substantially as shown and described.

9. A stirrup, the body portion of which is composed of wood, wood fiber or similar material and provided with upwardly-directed side members, plates secured to the outer side of said side members at the top thereof and provided with a metal band which passes around and beneath the bottom portion of the top of the stirrup, said plates being also provided with inwardly-directed tubular journals which pass through said side members, a spindle passing through said side plates and through said journals, and a roller mounted on said spindle and provided with end sockets adapted to receive the ends of said journals, substantially as shown and described.

10. A stirrup of the class described, provided with a front hood, the bottom portion of the stirrup being provided with a forwardly-directed spring-arm having an upwardly and backwardly inclined portion vertically movable on the inner side of said hood, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 11th day of March, 1905.

FRANCIS H. AUDLEY.

Witnesses:
C. E. MULREANY,
F. A. STEWART.