J. M. UNDERWOOD.

Whip-Socket.

No. 161,578. Patented March 30, 1875.

Fig. 1.

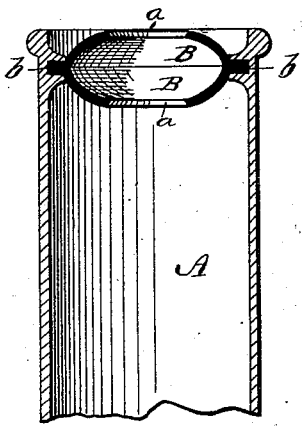
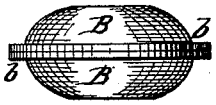


Fig. 2.



WITNESSES

Henry N. Miller

C. L. Emerson.

INVENTOR

J. M. Underwood.

per Alexander Stuart

ATTORNEYS

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

JOHN M. UNDERWOOD, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN WHIP-SOCKETS.

Specification forming part of Letters Patent No. **161,578**, dated March 30, 1875; application filed January 9, 1875.

To all whom it may concern:

Be it known that I, JOHN M. UNDERWOOD, of Newark, in the county of Essex and in the State of New Jersey, have invented certain new and useful Improvements in Whip-Sockets; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a rubber top for whip-sockets, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a vertical section of the upper end of a whip socket with my invention applied thereto. Fig. 2 is a side view of the rubber top.

A represents the upper end of a whip-socket constructed in any of the known and usual ways. B B represent two dish-shaped pieces of rubber, each provided with a central aperture, *a*, and a circumferential flange, *b*. These two pieces B B are placed one on top of the other, inverted, and the flanges *b b* united together in any suitable manner, the two disks forming a bulb, as shown. The bulb thus constructed is then fastened in or on the upper end of the whip-socket *a* in any convenient manner. When the whip-handle is passed through the bulb B B into the whip-socket the bulb has a double gripe on the whip, and the compressed air in the bulb materially aids in keeping the whip firm and steady, and entirely prevents the whip from rattling or oscillating in the socket. There is a downward suction engendered by the bulb, which keeps the whip at the bottom of the socket, thereby preventing it from wearing out.

I do not broadly claim the employment of a perforated rubber diaphragm inserted in the top of the body of a whip-holder, as I am aware that such is not new.

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

The combination, with a whip-socket, of the rubber bulb formed of the two dish-shaped pieces B B, having openings *a* and flanges *b*, substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 31st day of October, 1874.

JOHN M. UNDERWOOD.

Witnesses:
JOHN W. COLLINS,
C. L. EVERT.