

A. SEARL.  
Whip-Sockets.

No. 150,195.

Patented April 28, 1874.

Fig. 1

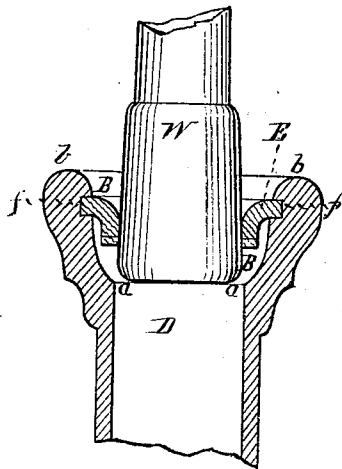
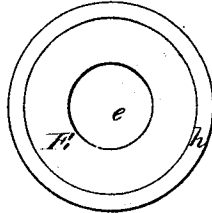


Fig. 2



Witnesses  
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ANSON SEARLS, OF NEWARK, NEW JERSEY, ASSIGNOR TO HIMSELF, EDWIN CHAMBERLIN, AND JOHN O. MERRIAM, OF TROY, NEW YORK.

## IMPROVEMENT IN WHIP-SOCKETS.

Specification forming part of Letters Patent No. **150,195**, dated April 23, 1874; application filed February 13, 1874.

*To all whom it may concern:*

Be it known that I, ANSON SEARLS, of Newark, county of Essex, State of New Jersey, have invented a Whip-Socket, of which the following is a specification:

The objects of my invention are to hold, for practical use, without appliances, a plain rubber disk in the top of a whip-socket, and pass a whip, corresponding in size to the barrel, freely through the rubber disk into the barrel, which is done by certain internal forms of the socket, presently described.

The form internal of the socket is shown in Figure 1.

A socket made of one piece of wood or suitable material is provided with the usual barrel D. At or near the point *a* it is enlarged about twice the thickness of a rubber, E, into a bell-top, B, that extends to the top of the socket *b*. In and near the top of the bell-top a groove, *f*, is formed for receiving the perimeter of a rubber disk, E.

The above-described bell-top, provided with a groove, *f*, is designed to hold a thick rubber, E, and provide room for its necessary movements, and is of the internal form upon which the practical operation of the disk E depends when taken in connection with the relative size of the barrel D, and the manner in which the rubber disk is held, hereafter more fully described.

Fig. 2 is a top view of a plain rubber disk, E, provided with a suitable hole, *e*, to receive the whip W, and in diameter large enough to fill the groove *f*, wherein it is loosely inserted, and from which it may be removed at pleasure. The butt of a whip, W, from the smallest in use up to the size of the barrel D, inserted

through the disk E, expands the disk laterally, and forces the center downward and outward toward or against the side of the bell-top B until the whip passes freely through into the barrel D. The operation of extracting the whip expands the disk E, and pulls it upward and outward in the same way until the whip passes freely out, and without removing the rubber.

It will be observed that, although the disk E is loose in the groove *f* and not held by rims, spurs, thick rims on its edge, compression, or any appliance whatsoever heretofore in use, it cannot be removed by the whip in its passage in or out, which is due to the internal form of the socket heretofore described, that permits using the rubber disk thick and strong enough to give it lateral expansive force or energy in the groove *f*, greater than the friction caused by the passing whip.

By making the perimeter *h* of the disk E of harder rubber than the center its efficiency is increased.

What I claim as new, and desire to secure by Letters Patent, is—

1. A whip-socket having the body D and top B made in one piece, the top bell-shaped and having groove *f* formed therein, in which is inserted the rubber disk E, combined as described.

2. In combination with a whip-socket, a plain rubber disk, E, held in a groove in the whip-socket by its expansive force, substantially as described.

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Witnesses:

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