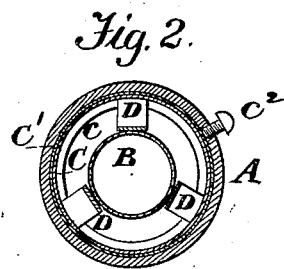
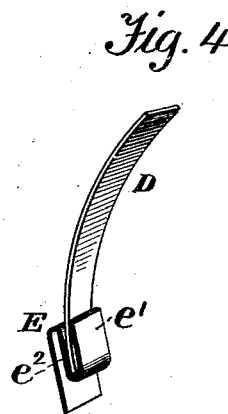
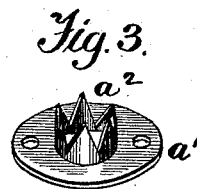
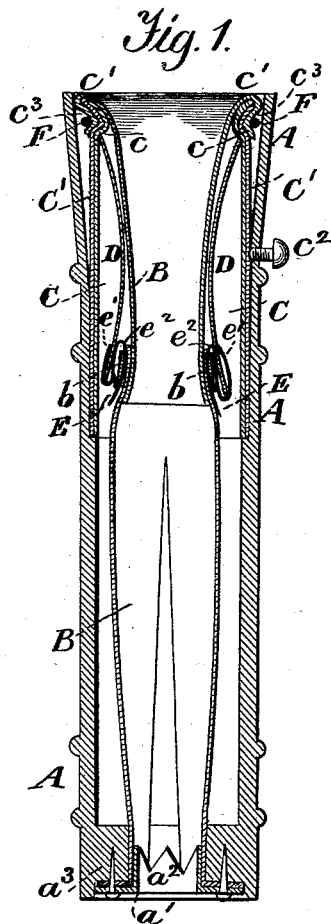


(No Model.)

F. E. BENTON.
WHIP SOCKET.

No. 419,815.

Patented Jan. 21, 1890.



Witnesses.
A. Ruppert,
H. A. Daniels

Inventor.
Francis E. Benton.
Per
Thomas P. Simpson,
att'y.

UNITED STATES PATENT OFFICE.

FRANCIS E. BENTON, OF STOUGHTON, MASSACHUSETTS.

WHIP-SOCKET.

SPECIFICATION forming part of Letters Patent No. 419,815, dated January 21, 1890.

Application filed May 28, 1889. Serial No. 312,358. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS E. BENTON, a citizen of the United States, residing at Stoughton, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Whip-Sockets; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The special object of my invention is to make fast the lining and springs of a whip-socket, so that neither can get out of place; also, to dispense with the usual leather bottom and substitute one which cannot be loosened by moisture and caused to drop out.

Figure 1 of the drawings is a vertical section of the socket with its attachments; Fig. 2, a horizontal section thereof; Fig. 3, a detail view of the metallic bottom, and Fig. 4 a detail view of the S-hooks.

In the drawings, A represents the hollow wooden socket, which is flared at the upper open end and at the lower end closed by the middle-apertured metallic plate a' , having the tubular flange a^2 , both fitting against the plug a^3 .

B represents the lining, of which one end is under and to the plug a^3 secured, while it is further held by the bottom a' with its tubular flange a^2 .

C is a metallic tube, having near the top the inside bead c , from which upwardly extends the top flare c' . This tube is held in the socket by a set-screw c^2 .

D are curved plate-springs, which are secured to the loops b of the lining by means of the S-hooks E. One end e of a hook passes through a loop b , while the other end e' forms with the middle e^2 a pocket for the reception of the lower end of the spring. As the upper end of the spring bears against the tube-bead c , the springs cannot possibly get out of place by an up or down pressure of the whip.

The lining B is turned at the upper end over the flare c' and held thereto by a wire F, which presses the fabric into a groove c^3 on the outside of the tube C, thus making it impossible for the whip to push the lining down into the tube or socket.

I use on the outside of the tube C a rubber tube C', which may be quickly taken out and replaced at any time by simply loosening the set-screw c^2 .

Having thus described all that is necessary to a full understanding of my invention, what I claim as new, and desire to protect by Letters Patent, is—

1. The combination, with a whip-socket and its springs, of a lining B, having the loops b , a metallic tube C, having the inside bead c , and the S-hooks E, whereby the springs may be held, as described.

2. The combination, with a whip-socket and its plug, of the metallic-plate bottom a' , having the central tubular flange a^2 , as and for the purpose specified.

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

FRANCIS E. BENTON.

Witnesses:

FRED FARROW,
EUGENE H. MOORE.