(No Model.)

E. W. SCOTT.

CAP FOR WHIP SOCKETS.

No. 426,606. Patented Apr. 29, 1890.

Fig. 1.

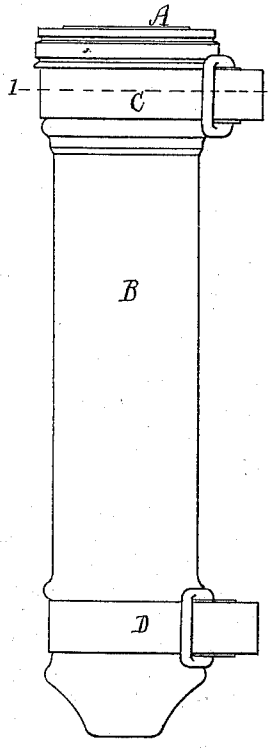


Fig. 5.

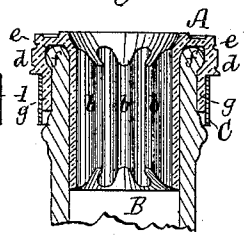


Fig. 2.

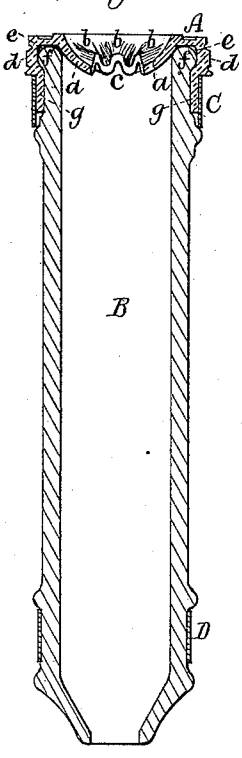


Fig. 3.

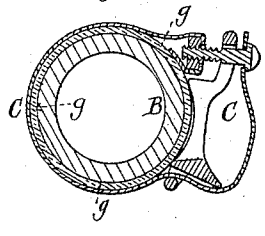
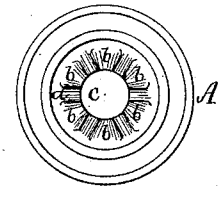


Fig. 4.



Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ERASTUS W. SCOTT, OF DANIELSONVILLE, CONNECTICUT.

CAP FOR WHIP-SOCKETS.

SPECIFICATION forming part of Letters Patent No. 426,606, dated April 29, 1890.

Application filed October 28, 1889. Serial No. 328,449. (No model.)

To all whom it may concern:

Be it known that I, ERASTUS W. SCOTT, a citizen of the United States, residing at Danielsonville, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements in Caps or Heads for 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.

Figure 1 is a side elevation, Fig. 2 a vertical section, and Fig. 3 a horizontal section on line 1 1 of Fig. 1, of a whip-socket provided with my invention. Fig. 4 is a top view of the cap as made to be applied to the socket. Fig. 5 is a vertical section showing a modification.

The nature of my invention is defined in the claim hereinafter presented.

The improvement hereinafter described relates to the molded vulcanized india-rubber cap or head applied to the top end of the socket to securely hold the whip in the said socket and prevent it from rattling against the interior of the socket while the carriage to which it is fixed is in motion.

Heretofore in the molded rubber caps or heads formed with a perforated diaphragm at top and applied to the top and outside upper portion of the whip-socket, the inherent contractile strength of the body of said cap below the annular projection or bead surrounding the top end of the socket has alone been depended upon to hold said cap to the socket during the withdrawal of a whip from the socket. In many cases this is found to be insufficient, particularly when a whip with a large butt is used in the socket; also, under such circumstances the opening in the diaphragm of the cap is often ruptured in its edge, which renders the cap worthless.

In carrying out my invention I form the diaphragm *a* of the cap A with corrugations *b b b*, &c., (see Figs. 2 and 4,) so as to pucker the edge of its opening or mouth C, in order that it may yield to admit of the insertion of a whip into or withdrawal of it from the socket without unduly straining the said edge of the opening *c*. This construction of said cap increases the bearing-surface of said edge when contracted against the whip-stock, and thus supports it in the socket to better advantage than as ordinarily constructed, and effectually overcomes the liability of said edge to tear during the passage of the whip-stock through said opening. Below the collar *d* and the annular groove *e* of the cap, the said groove *e* receiving the bead *f* surrounding the top of the socket B, as shown, is extended downward an annular sleeve *g*, which embraces the socket immediately below the bead *f*, and is compressed against said socket by the fastening clamp or band C, which, with the clamp D, secures the socket to the carriage.

By forming the opening in the cap with the puckered edge the liability to pull the said cap off the socket when removing the whip is very much reduced; but when the cap is also provided with the annular sleeve *g*, as shown, and is secured to the socket by the fastening-clamp compressing said sleeve against the socket, all liability of drawing the cap off the socket is overcome, and the tearing of the edge of the said mouth is also prevented during the passage through it of a whip-stock. Sometimes I extend the corrugations into the socket, as shown in Fig. 5, to increase the bearing-surface and holding-power of the mouth of the cap against the whip.

I am aware that a whip-socket lining has been made of gore webbing elastic, and corrugated, as shown in Patent No. 390,745, granted to Francis E. Benton, and do not claim such.

What I therefore claim is—

As an improved article of manufacture, a whip-socket provided at top with an annular bead or flange, and a head or cap composed of the grooved elastic collar *d*, the concavo-convex perforated and corrugated elastic diaphragm *a* and the annular sleeve *g*, formed in one piece of vulcanized india-rubber, and the fastening clamp or band for confining the head to the socket and the latter to the carriage, as explained.

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

ERASTUS W. SCOTT.

Witnesses:
ARTHUR G. BILL,
ANNIE E. BUTTS.