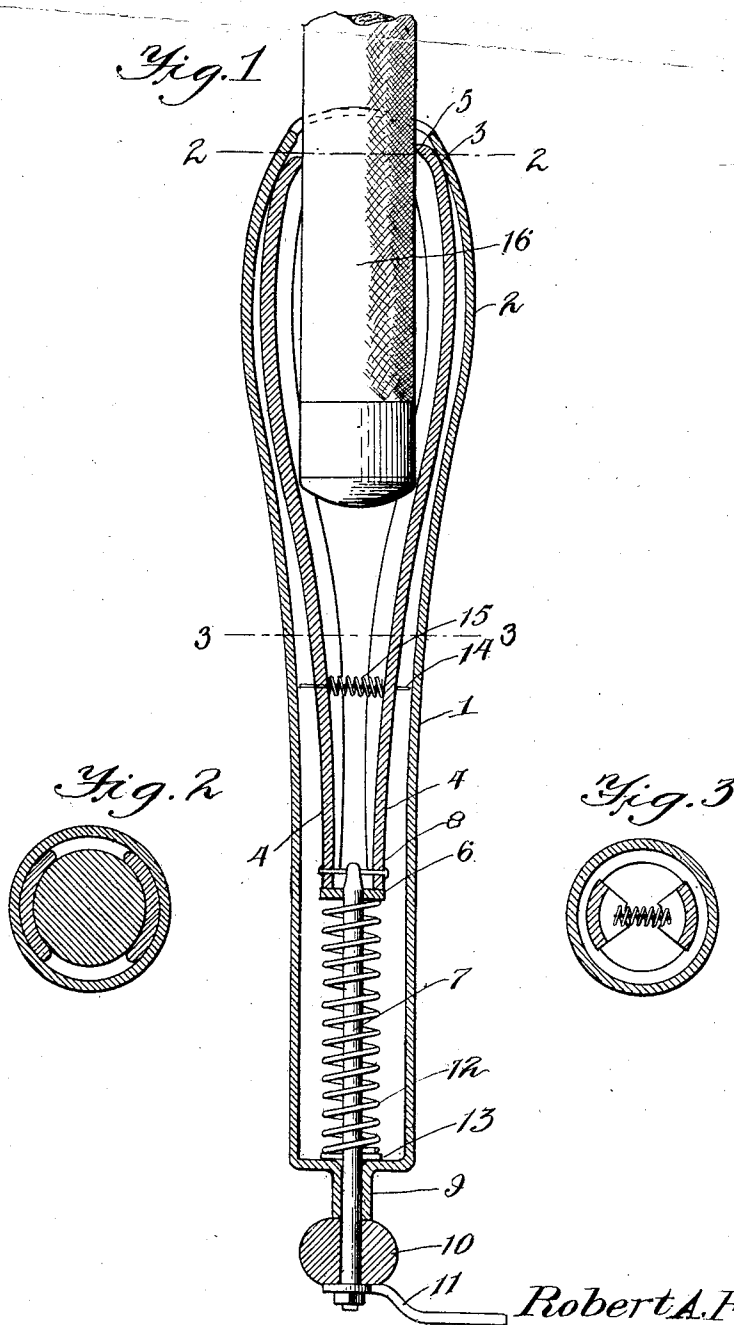


R. A. FOSTER.
WHIP SOCKET.

APPLICATION FILED NOV. 27, 1909.

985,022.

Patented Feb. 21, 1911.



Witnesses

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ROBERT A. FOSTER, OF SAN FRANCISCO, CALIFORNIA.

WHIP-SOCKET.

985,022.

Specification of Letters Patent.

Patented Feb. 21, 1911.

Application filed November 27, 1909. Serial No. 530,167.

To all whom it may concern:

Be it known that I, ROBERT A. FOSTER, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Whip-Sockets, of which the following is a specification.

The invention relates to an improvement in whip sockets and is particularly directed to a whip socket in which the whip is automatically clamped against displacement.

The main object of the present invention is the production of a whip socket including a casing and clamping members mounted for movement and adapted to engage the whip, the members being arranged for clamping operation automatically or manually and normally held at one limit of movement, the casing being arranged to force the clamping members into clamping position when said members have reached their limit of upward movement.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a vertical sectional view, illustrating the construction of my improvement, the whip butt being shown in elevation. Fig. 2 is a section on line 2—2 of Fig. 1. Fig. 3 is a section on line 3—3 of Fig. 1.

Referring particularly to the accompanying drawings, my improved whip socket comprises a casing 1 of an appropriate length and cylindrical in cross section. Near the upper end the casing is materially increased in diametrical extent forming what will be hereinafter termed a relieving portion 2. Above the portion 2 the casing is gradually reduced in diameter until at the upper end it but slightly exceeds the diameter of the whip butt, forming what will be hereinafter termed the clamping portion 3. Arranged within the casing are clamping sections 4 of duplicate construction having a curvature in longitudinal section corresponding approximately to the curvature of the casing in longitudinal section and being gradually increased in transverse dimension from the lower to the upper end. In transverse section each member is of curved form corresponding to the curvature of the whip butt, or in other words each clamping member constitutes a section designed at the gripping points to contact with the whip

throughout the transverse length of the section. At the relatively upper end each section is shaped to form a more or less sharp biting edge 5, which is designed to form an effective whip engaging portion. The lower ends of the sections are connected by a transverse plate 6, through which is passed a stem 7, which, upwardly beyond the plate, is secured in place by a pin 8 passed through the clamping sections and the stem. The lower end of the stem is passed through a socket member 9 and below said socket member is provided with a buffer 10 and with a laterally projecting arm 11 serving as a means for operating the clamping sections. Within the casing a coil spring 12 is arranged to encircle the stem 7 and bear against the plate 6 at one end and a plate 13 bridging the opening from the socket 9 into the casing, said spring being tensioned to normally maintain the clamping members at their upward limit of movement. Above the pin 8 the clamping members are connected by a transversely arranged pin 14 loosely mounted in each member, about which pin between the members there is arranged a coil spring 15, said spring being tensioned to normally spread the members.

As described it will be understood that upon a downward pressure exerted upon the arm 11 the clamping sections will be withdrawn until the biting edges are disposed in approximately transverse alinement with the relieving section of the casing. As this section is of the maximum width, the clamping members will on reaching this section and under the influence of the spring 15 be spread apart for a maximum distance. Upon relieving the pressure upon the arm 11 the spring 12 operates to force the clamping members upward with the effect to cause the upper ends of said members to ride into contact with the clamping section 3 of the casing, forcing the biting edges 5 of said members into clamping position, or the position of minimum width. Upon this description of the operation of the device it will be understood that when it is desired to insert the whip, pressure is exerted upon the arm 11 spreading the clamping members to their maximum position, after which the butt 16 of the whip is inserted between the clamping members and the pressure upon the arm 11 released. The spring 12 then operates to force the clamping members up-

ward and into clamping coöperation with the whip butt, effectively retaining the latter against withdrawal except on operation of the arm.

5 The casing is to be provided with any means desired for securing the same in position to the dashboard or to any other appropriate part of the vehicle.

10 The materials of which the various parts are to be constructed are not important as the construction is of a character to permit the use of any preferred materials for the purpose.

15 Having thus described the invention what is claimed as new, is:—

1. A whip socket including a casing having a portion of maximum width to provide a relieving section, the diameter of the casing above the relieving section being reduced to provide a clamping section, clamping members mounted for longitudinal movement within the casing, means to permit manual movement of said members downward within the casing to arrange the engaging portions of said members adjacent the relieving section of the casing to permit the maximum spacing of said engaging portions, and a spring to project said members up within the casing upon release of the manually operable means to cause said members to engage the clamping section of the casing to force the engaging portions of

the members toward each other to clamping position.

2. A whip socket including a casing having a portion of maximum width to provide a relieving section, the diameter of the casing above the relieving section being reduced to provide a clamping section, clamping members mounted for longitudinal movement within the casing, means to permit manual movement of said members downward within the casing to arrange the engaging portions of said members adjacent the relieving section of the casing to permit the maximum spacing of said engaging portions, a spring to project said members up within the casing upon release of the manually operable means to cause said members to engage the clamping section of the casing to force the engaging portions of the members toward each other to clamping position, and means arranged between the members to exert a relatively outward pressure upon said members, whereby to force the members apart when drawn downward by the manually operable means.

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

BERT FOSTER.

Witnesses:

MARIO SIMI,
NAT T. COULSON.