

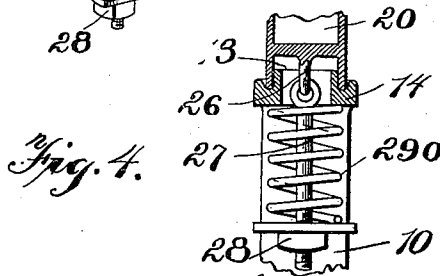
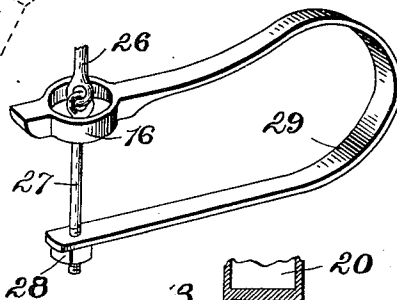
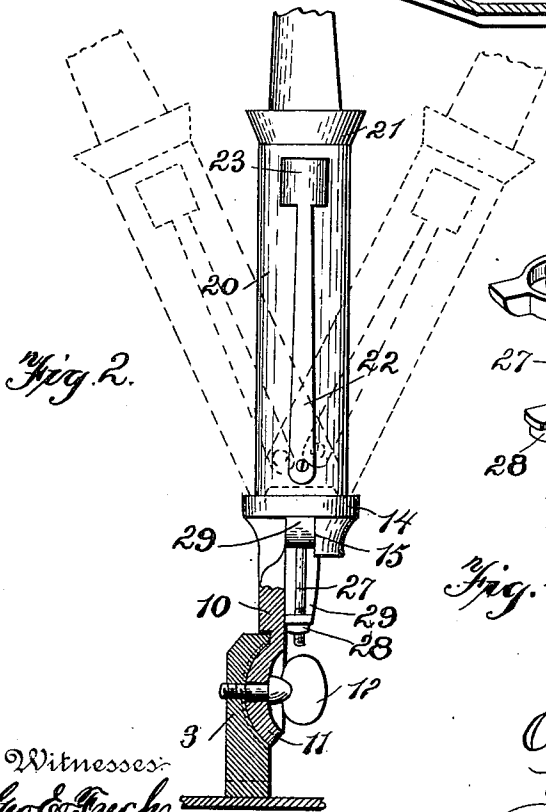
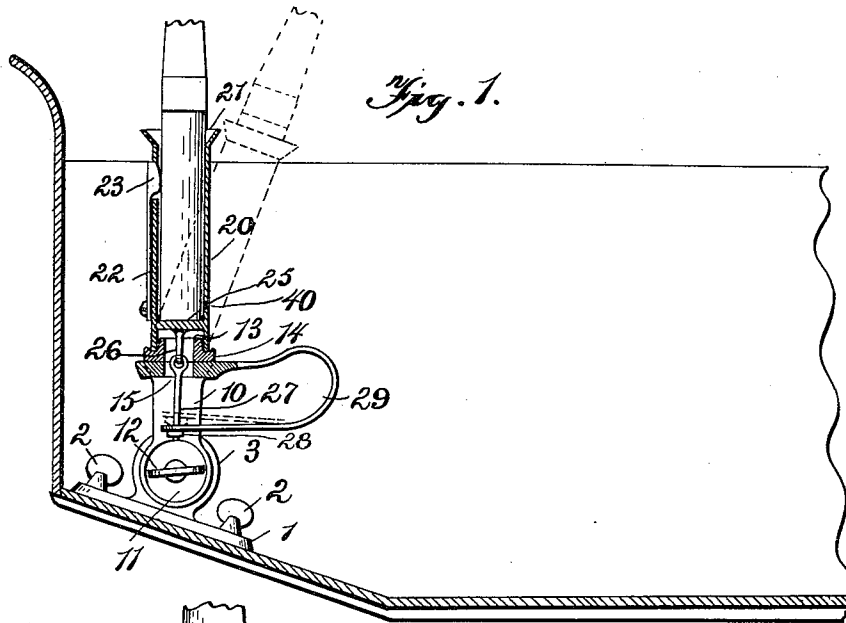
No. 662,219.

Patented Nov. 20, 1900.

O. CARTER.
WHIP SOCKET.

(Application filed Mar. 8, 1899.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

OSCAR CARTER, OF BUENA VISTA, INDIANA, ASSIGNOR OF ONE-HALF TO
GEORGE W. CATHCART, OF MYRTLE, MISSISSIPPI.

WHIP-SOCKET.

SPECIFICATION forming part of Letters Patent No. 662,219, dated November 20, 1900.

Application filed March 8, 1899. Serial No. 708,200. (No model.)

To all whom it may concern:

Be it known that I, OSCAR CARTER, a citizen of the United States, and a resident of Buena Vista, Monroe county, State of Indiana, have invented certain new and useful Improvements in Whip-Sockets; and my preferred manner of carrying out the invention is set forth in the following full, clear, and exact description, terminating with claims particularly specifying the novelty.

This invention relates to harness attachments, and more especially to that class thereof known as "whip-sockets;" and the object of the same is to produce certain improvements in devices of this character.

To this end the invention consists in a support attached to a vehicle-body, a body swivelly attached to the support, a socket flexibly attached to the body, and the specific details of all these parts which carry out the end in view, all as more fully hereinafter described and claimed and as illustrated in the drawings, wherein—

Figure 1 is a section through a buggy, showing this improved whip-socket in place. Fig. 2 is a front elevation of the socket, partly in section. Fig. 3 is an enlarged perspective detail of the spring connections illustrating the bow-spring, and Fig. 4 is a similar detail showing the use of a spiral spring.

Referring to the said drawings, the numeral 1 designates a plate attached either to the bottom or the dashboard of a buggy, wagon, or the like by means of ordinary thumb-screws or bolts 2, and from the center of this plate rises an integral disk 3, cup-shaped on one face and preferably provided therein with radial grooves, as indicated in dotted lines in Fig. 2.

10 designates the body above referred to and at whose lower end is a convex disk 11 of a size and shape to fit the cup-shaped face of the disk, and 12 is a set-screw passing through alined holes in the centers of both disks, by means of which they can be locked together in any desired radial position after proper adjustment. At the upper end of this body it is formed tubular, as shown at 13, surrounded by a collar 14, and below the latter it is longitudinally slotted, as seen at 15, all for a purpose to appear below.

The socket proper is indicated by the numeral 20 and preferably has a flared upper end 21 and a spring 22 attached to one side, with its free end 23 pressing inwardly against the butt of the whip when in position. The lower extremity of this socket stands normally between the tubular portion 13 and the surrounding collar 14. Within the socket 20 is a fixed plate 25, from which depends an eye 26, and from the latter leads a chain or link 27 downward and connects, as by a screw and bolt 28, with the lower end of a bowed spring 29, whose body curves, as shown, and whose upper end stands within the slot 15, where it preferably has an eye 16, as shown in Fig. 3, through which the link or connection passes.

In operation the support is suitably secured in position, the body attached thereto and set at the desired angle by means of the thumb-screw, and the socket mounted on the body and held normally in upright position by means of the spring. It will be obvious that if a whip supported in said socket should be passed beneath an obstruction and inclined thereby to the rear the entire socket would yield or bend at an angle to the body before the whip would be broken. Furthermore, if the driver should attempt to insert the whip into the socket without having it in true alinement therewith the socket would yield under the influence of the spring, so as to aline with the whip and permit the insertion thereof. When in place, the butt of the whip rests on the fixed plate within the socket, and the spring 22 holds it therein. In case the whip should fit very closely within the socket I provide the body of the latter with a hole 40 above the partition therein to prevent an air-cushion.

All parts are of the desired sizes, shapes, proportions, and materials consistent with the above specific details, and various changes in the latter may be made without departing from the essential principles of my invention; but one of these changes I have considered it necessary to illustrate herein, and that consists in substituting for the bow-spring 29 a spiral spring 290, as best seen in Fig. 4 of the drawings. Obviously the uses thereof will be substantially the same, and

other parts need not be altered save possibly by the insertion of a washer above the nut 28, as shown in that view.

Having thus described the invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a whip-socket, the combination with the base attached to a suitable support and having a cup-shaped disk with radial grooves therein; of a body having a disk with a convex face fitting said other disk, a thumb-screw through the centers of both disks, a socket proper supported by the body, and means for retaining in place and permitting the yielding of the socket in all directions out of longitudinal alinement with the body, as and for the purpose set forth.

2. In a whip-socket, the combination with a support and a body adjustably mounted thereon and having its upper end tubular and surrounded by a collar; of the tubular socket proper whose lower end rests between the tubular portion of the body and said collar, a fixed plate within the socket, an eye projecting downward from the plate through the body, and a spring connected with said eye for holding the socket normally in alinement with the body, as and for the purpose set forth.

3. In a whip-socket, the combination with the body, having an annular ring at its upper end; of the socket proper whose lower end fits within said ring, a rigid plate within the socket, an eye depending therefrom through the ring, a link connected with the eye, and a spring one arm of which is adjustably connected with the lower end of the link, and the other arm of which is held by the body, as and for the purpose set forth.

4. In a whip-socket, the combination with a base attached to a suitable support and having a disk with grooves therein; of a body

having a disk with a face fitting said other disk, a thumb-screw through the centers of both disks, a socket proper supported by the body, a spring attached to said socket and having its free end pressing normally inward through the same to hold the whip therein, and means for retaining in place and permitting the yielding of the socket in all directions out of longitudinal alinement with the body, as and for the purpose set forth.

5. In a whip-socket, the combination with a support, and a body adjustably mounted thereon and having its upper end tubular and surrounded by a collar; of the tubular socket proper whose lower end rests between the body and collar, a plate within the socket, an eye projecting downward from the plate through the body, a link connected with the eye, a nut on the link, a washer above it, and a spiral spring having one end pressing upward against the body and the other end downward against the washer, such spring surrounding said link and eye for holding the socket normally in alinement with the body, as and for the purpose set forth.

6. In a whip-socket, the combination with the body having a ring at its upper end; of the socket proper whose lower end fits within said ring, a rigid plate within the socket, an eye depending therefrom through the ring, a link connected with the eye, and a bow-spring one arm of which is adjustably connected with the lower end of the link, and the other arm of which rests beneath the body, as and for the purpose set forth.

In testimony whereof I have hereunto subscribed my signature this the 4th day of March, A. D. 1899.

OSCAR CARTER.

Witnesses:

C. P. GATTY,
JOSEPH F. BURCH.