

No. 608,431.

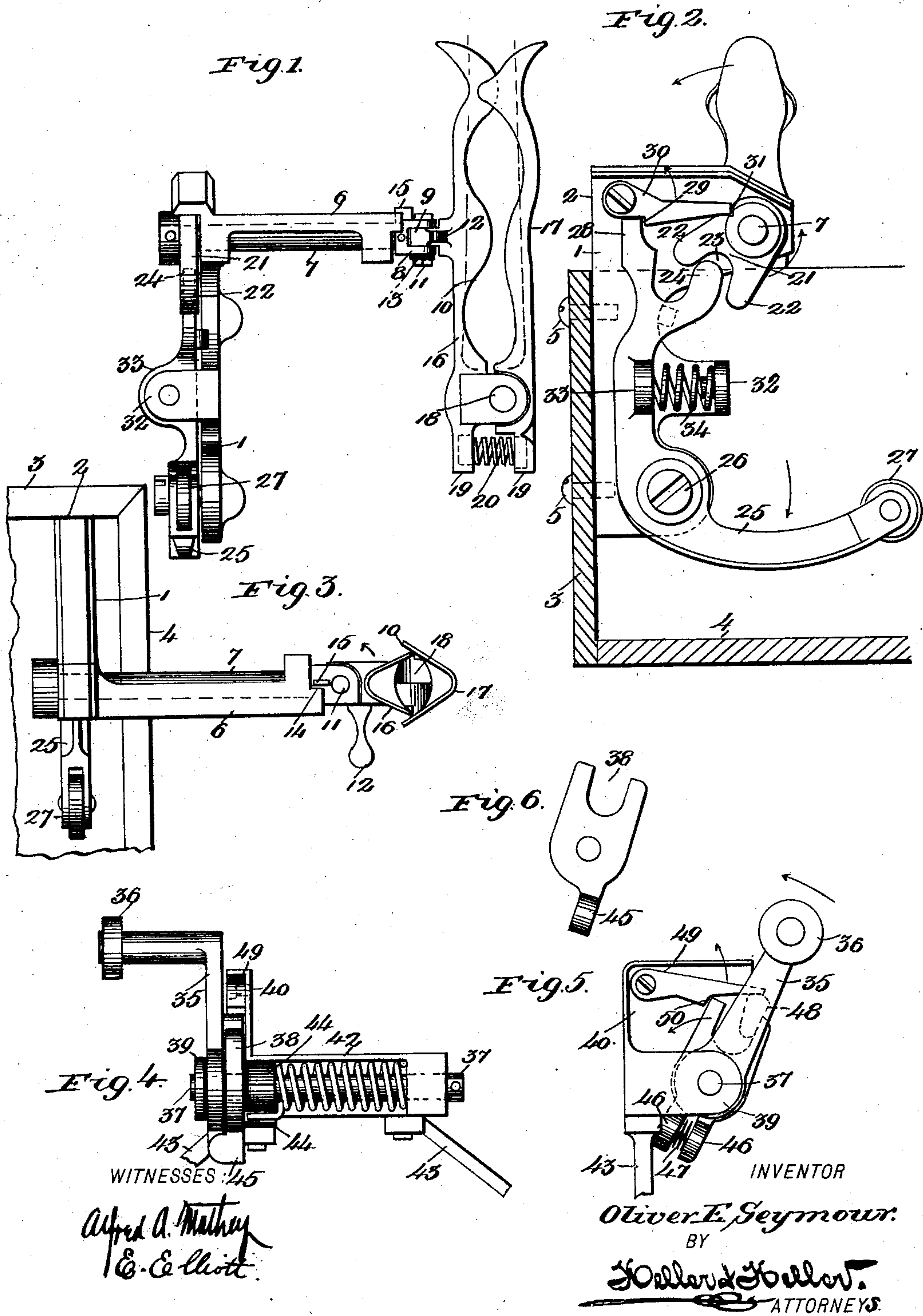
Patented Aug. 2, 1898

O. E. SEYMOUR.

WHIP SOCKET.

(Application filed Nov. 26, 1897.)

(No Model.)



UNITED STATES PATENT OFFICE.

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WHIP-SOCKET.

SPECIFICATION forming part of Letters Patent No. 608,431, dated August 2, 1898.

Application filed November 26, 1897. Serial No. 659,852. (No model.)

To all whom it may concern:

Be it known that I, OLIVER E. SEYMOUR, a citizen of the United States, residing at Jefferson City, in the county of Cole and State of Missouri, have invented certain new and useful Improvements in Whip-Sockets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part thereof.

My invention has relation to improvements in whip-sockets; and it consists in the novel arrangement and combination of parts more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a front elevation of my complete invention. Fig. 2 is a side view of the same as applied to the body of a vehicle. Fig. 3 is a top plan view. Fig. 4 is a front view of a modification of my invention. Fig. 5 is an end view of the same, and Fig. 6 is a detail view.

The object of my invention is to construct a whip-socket which when operated by a proper movement of the foot the same will be oscillated any number of times, whereby the whip carried by the socket will also be oscillated and caused to strike the horse in a like manner, with the same result as if said whip was handled in the well-known manner; and it consists of a socket adapted to clamp the whip, suitable mechanism coöperating therewith and adapted to be operated by the foot of the operator in one direction, a spring for operating the socket in the opposite direction, and an automatic lock for holding the socket in a rigid vertical position when the same is not operated.

In detail the invention may be described as follows:

Referring to the drawings, 1 represents the body portion or supporting-frame of my invention, the vertical straight edge 2 of which is adapted to be secured to the vertical front portion 3 of the vehicle-body 4 at a point to bring the whip-socket in a proper line with the horse, as shown in Fig. 2, screws 5 being employed for securing the frame to the body. Formed integral with the frame 1 is an extension 6, which forms a bearing and support for the horizontal oscillating shaft 7. To the outer projecting end of the shaft 7 is secured

a fork 8, which receives the ear 9, forming a part of the whip-socket 10, a rivet 11 being passed through said fork and ear, whereby a hinged connection is made between the socket and shaft for properly adjusting said socket in order that the whip may be adjusted in respect to the horse or horses. A handle 12 forms a part of the ear 9 and projects a suitable distance, whereby the socket is handled when it is desired to adjust the same, the friction of the hinge holding the socket in its adjusted position by the employment of a spring-washer 13. A shoulder 14 is formed on the extension 6 at its free end, against which the projecting lug 15 comes in contact when the socket is in a vertical position, thus limiting the movement of the latter in one direction. The whip-socket is comprised of a stationary member 16 and a hinged or movable member 17, the members being hinged at 18 and each provided with extensions 19, extending below the hinge, between which extensions is located a coiled spring 20 for causing the members to firmly clamp the whip. To the opposite end of the shaft 7 is secured a fork 21, composed of two arms 22, whereby a space 23 is formed between said arms for the reception of an arm 24 of the angular foot-lever 25. The lever 25 is movably secured to the lower end of the frame 1 by a screw 26 and one end of said lever forked to receive a roller 27, against which the foot is brought in contact for depressing the lever in the direction as shown by the arrow, Fig. 2. The other or vertical arm of the lever 25 is provided with an extension 28, which coöperates with a shoulder 29 of the pivoted locking-arm 30, whereby when the lever 25 is operated in the manner described the extension will first raise or elevate the free locking end of said arm out of contact with the shoulder 31, formed on the fork 21, and by a further movement of said lever the arm 24 of the same will come in contact with one of the arms 22 of the fork, causing the shaft 7, and consequently the socket, to be oscillated. 32 represents a lug which is formed integral with the frame 1 and projects at a right angle to the same, and formed with the lever 25 and also projecting at a right angle to the same is a similar lug 33, between which lugs is interposed a coiled

spring 34, the object of which is to cause the various parts to assume their normal position after the lever has been depressed by the foot and the latter removed from the lever.

5 In Figs. 4, 5, and 6 I have shown a modification of my invention, and this form is desirable where the device is to be attached to light vehicles and especially where the same must be necessarily attached to the bottom 10 of the body portion of the vehicle. 35 represents a right-angular-shaped foot-lever, the end of which is provided with a roller 36, against which the foot is brought in contact, said lever being loosely mounted on the oscillating shaft 37 between the fork 38 and a 15 lug 39, formed with the frame 40. One end of the shaft 37 is received by the lug 39, and the opposite end received loosely by the bearing 41 of the extension 42 of the frame, and to the projecting end of the shaft next to the 20 bearing 41 is secured the socket in the manner previously described, but not shown in these figures. To the base and the extension of same are secured supports 43 for attaching the same to the floor of the vehicle. The 25 fork 38 is keyed or otherwise fixed to the shaft 37 and has formed therewith a collar 44, against which bears one end of a spiral spring, the opposite end of the latter bearing against the extension 42, whereby the parts are caused 30 to assume their normal positions. The fork 38 is provided with an extension 45 and the lever 35 is also provided with a like extension 46, between which is interposed a coiled spring 47 for causing the lug 48 of the lever 35 to be 35 normally in contact with one arm of the fork 38, as best shown in Fig. 5. Hinged to the frame 40 is one end of a gravity-latch 49, the same being provided with a shoulder 50, 40 which coöperates with one of the arms of the fork 38 for holding the shaft rigidly when it is not desired to operate the same. When the foot-lever 35 is operated by the foot in the direction as shown by the arrow, Fig. 5, the 45 lug 48 will first elevate the arm 49, releasing the fork from its locked position, and as the lever is further advanced the said lug will come in contact with the opposite arm of the fork or that arm with which it was previously 50 in contact and oscillate the shaft 37. When the foot is removed from the lever, the coiled spring encircling the shaft 37 will cause the parts to assume their normal positions and the gravity-arm 49 to drop and lock the 55 fork 38.

The lock employed in both constructions

shown is of considerable importance, as it locks the socket rigidly when it is in its normal position, thus preventing the same from being moved or oscillated should the tail of 60 the horse come in contact with the socket or whip.

Having fully described my invention, what I claim is—

1. A whip-socket comprising a suitable 65 frame, a socket movably carried by the same, means for oscillating the said socket, and a lock, for locking the socket in its normal or vertical position substantially as described.

2. A whip-socket comprising a suitable 70 frame adapted to be secured to a vehicle-body, an oscillating shaft loosely mounted in the same, a socket fixed to said shaft and oscillated thereby, a spring for operating the shaft in one direction, intermediate mechanism be- 75 tween said lever and shaft, and an automatic lock for holding the socket in a vertical position substantially as described.

3. A whip-socket comprising a suitable 80 frame, an oscillating shaft mounted in the same, a whip-socket hinged to one end of the shaft and capable of adjustment, and means for oscillating said shaft substantially as de- 85 scribed.

4. A whip-socket, comprising a suitable 85 frame, an oscillating shaft mounted in the same, a socket fixed to one end of the shaft, a fork fixed to the opposite end of the shaft, a lever pivoted to the frame and adapted to be depressed by the foot, an arm forming a 90 part of the lever and coöperating with said fork, a lock hinged to the frame and provided with a shoulder, an extension also forming a part of the lever and coöperating with said 95 shoulder for elevating the lock, a shoulder formed on the fork against which the free end of the lock comes in contact and a spring interposed between the frame and the lever for operating the latter in one direction substan- 100 tially as described.

5. A whip-socket, comprising a suitable 105 frame, a socket movably carried by the same, means for oscillating said socket, and an automatic gravity-lock for locking the socket against movement when in its normal posi- 110 tion, substantially as described.

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

OLIVER E. SEYMOUR.

Witnesses:

C. W. WALLENDORF,
G. A. SMITH.