J. B. HOLLENBECK.

WHIP SOCKET LOCK.

APPLICATION FILED NOV. 6, 1908.

925,635. **Patented June 22, 1909.**

Fig. 1.

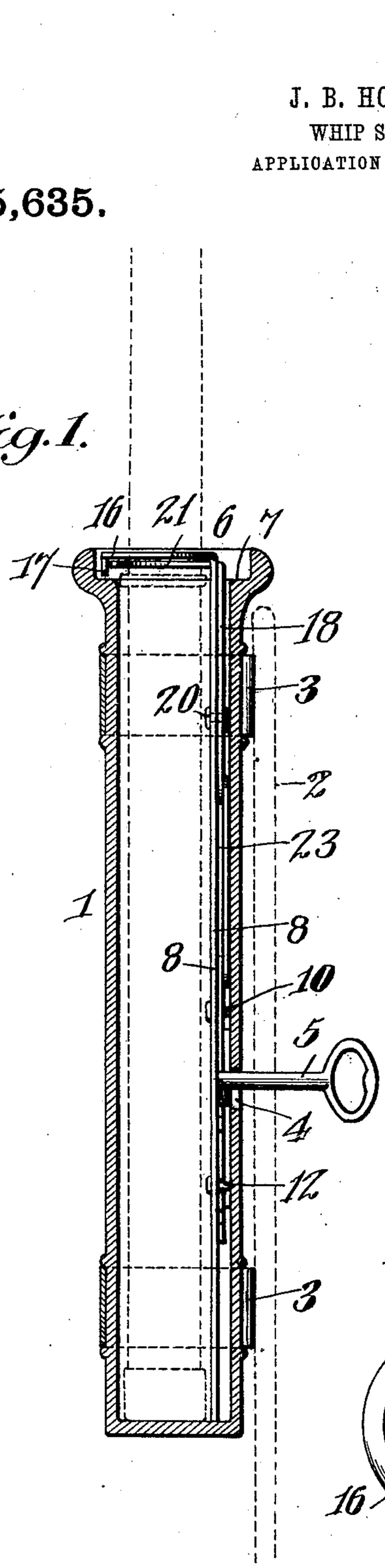


Fig. 2.

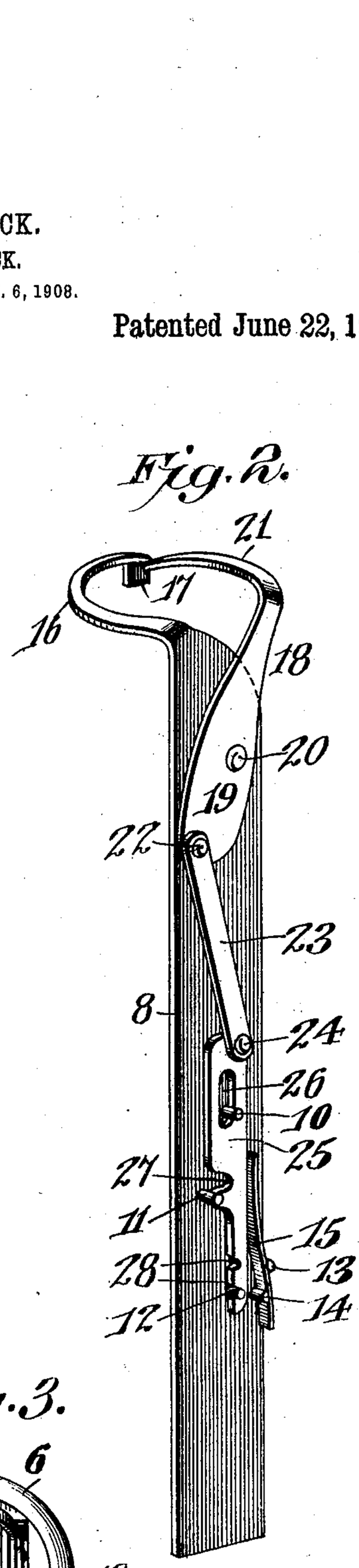
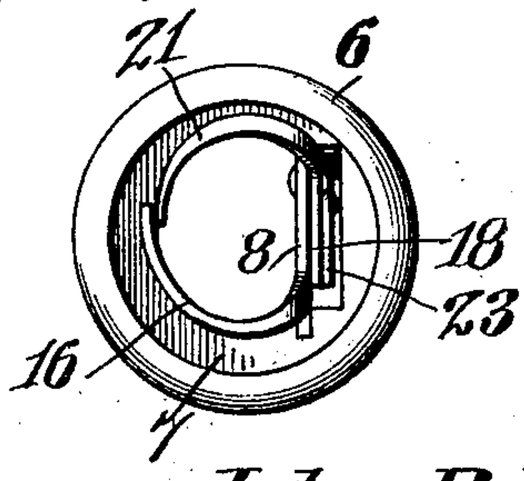


Fig. 3.



John B. Hollenbeck, Inventor

Witnesses

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UNITED STATES PATENT OFFICE.

JOHN B. HOLLENBECK, OF MADISON, INDIANA.

WHIP-SOCKET LOCK.

No. 925,635. Specification of Letters Patent. Patented June 22, 1909.

Application filed November 6, 1908. Serial No. 461,362.

To all whom it may concern:

Be it known that I, JOHN B. HOLLENBECK, a citizen of the United States, residing at Madison, in the county of Jefferson and State of Indiana, have invented certain new and useful Improvements in Whip-Socket Locks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to whip sockets or holders, and has specially in view a novel type of locking mechanism for retaining the whip therein to prevent unauthorized removal of the same.

In carrying out the object of the invention generally stated above it will, of course, be understood that the essential features involved are susceptible of structural changes and modifications of details, a preferred and practical embodiment of which is shown in the accompanying drawings, wherein—

Figure 1 is a longitudinal sectional view of a whip holder or socket, showing the same equipped with the improved whip locking mechanism. Fig. 2 is a perspective view of the whip locking mechanism, showing the same removed from the whip holder or socket. Fig. 3 is a top plan view of a whip socket or holder showing the whip locking mechanism therein.

Like characters of reference designate corresponding parts.

Referring to the accompanying drawings, 1 designates a whip holder or socket which is secured to the dashboard 2 by means of the usual fastening clips 3. Said whip holder or socket 1 has an opening 4 formed through its intermediate body portion for the passage of a key 5 for manipulating the whip locking mechanism therein, as will presently appear. The upper end of said whip holder or socket 1 is enlarged as indicated at 6 and is provided with an interior annular guide flange 7. A plate 8 which is of substantially the same longitudinal length of the whip socket is held within said whip socket by means of rivets or equivalent fastening means, said plate being preferably flat, but it will be understood that, if desired, the same may be curved to conform to the contour of the whip socket. A pin or lug 11 is carried by said plate 8, said pin or lug being arranged to register with the opening 4 formed in the body of the whip socket. A latching pin 12 is arranged upon said plate, preferably below the said pin or lug 11, and to one side of said pin 12, the said plate also carries spring holding lugs 13—14 which hold between them one end of spring 15. The upper end of the plate 8 terminates in a narrow outstanding portion which is bent at right angles to the said plate and curved to form a semi-cylindrical whip gripping arm or jaw 16 the end of which is provided with a broad pendent lip 17 the lower edge of which terminates closely adjacent to the guide flange 7 of the whip socket.

A locking lever 18 has its enlarged body portion 19 eccentrically pivoted on the plate 8, such pivotal connection being designated by the numeral 20, and has its upper end reduced and bent in a horizontal plane to form a semi-cylindrical gripping arm or jaw 21, complemental to the whip gripping arm 16 of the plate 8, said arms coöperating to form the whip retaining means. The lower end of said locking lever has a pivotal connection 22 with a link rod 23, said last-mentioned pivotal connection 22 being at a point to one side of the pivotal connection 20 between the locking lever 18 and the plate 8. The link rod 23 in turn, has its lower end pivotally connected, as at 24 to one side of the upper end of a latching slide 25. Said latching slide 25 is provided with a longitudinally extending intermediate slot 26 through which the pin or lug 10 of the plate 8 protrudes, and at one side said slide is provided with an intermediate key engaging notch 27 with which a key adapted to fit upon the pin 11 engages, and below said notch 27, the slide is reduced and provided with two spaced apart notches 28 with which the pin 12 engages according to the position in which said slide is in.

It will be observed that the slot 26 formed through the latching slide 25 is of such a size that a movement of the said slide relatively to the pin or lug 10 is permitted longitudinally or laterally thereto, and it will also be observed that the spring 15 is so arranged that its free end is constantly exerting a pressure tending to force said slide 25 to a position where one of its side notches 28 will be engaged by the pin 12.

In Fig. 1 of the accompanying drawings a practical illustration of the application of the invention has been shown, a whip being represented by dotted lines as held within the socket, a key 5 being shown in a position to release the mechanism which locks the whip within said socket. Said key is preferably of the hollow stem type which fits over the pin

or lug 11 with its tumbler-operating end within the notch 27, so that by turning said key in one direction the latching slide will rock laterally on the pin 10 to remove one of its side notches from engagement with the pin 12 against the pressure exerted by the spring 15 and the slide 25 will slide either upward or downward according to the position of the plate, that is to say, whether the upper notch 28 engages the pin 12 or the lower notch 28. If, however, the slide 25 is in the position shown in Fig. 2 of the drawing, when the key engages the notch 27, the lower notch 28 will be forced out of engagement with the pin 12, and as the key is turned the slide will move downwardly and the upper end 21 of the arm 18 will be drawn in and lock a whip encircled thereby in the socket, for the reason that the upper notch 28 will then engage the pin 12. When it is desired to withdraw the whip from the socket the key may be inserted in the notch 27 and rotated, in the opposite direction from that previously described and the slide will be forced outwardly and the lower notch 28 will be disengaged from the pin 12 and the slide 25 will be moved upwardly and the pin 12 will be engaged by the lower notch 28 as shown in Fig. 2. It will be obvious that from the foregoing description that the jaw 21 will be locked in an open, or closed, position and the whip socket, or locking means, therefore, cannot be operated without the use of the proper key.

It will be observed that the gripping arm 21 has its end fitted within the arm 16 when said arms are in a whip locking position, said arm 21 being guided to this position by means of the pendent lip 17 of said arm 16. It will also be seen that should the arm 16 be bent downward by the act of inserting a whip into the socket, the lip 17 will contact with the annular flange 7 of the whip socket and thereby prevent said arm being forced into said socket to an inoperative position.

Claims:—

1. A device of the character described comprising a whip socket, a plate fast therein, an arm carried by said plate and forming one member of a whip lock, a locking lever pivotally mounted on said plate and carrying an arm forming the other member of the whip lock, a latching slide on said plate and capable of a limited longitudinal and lateral movement thereto, and a link connection between said slide and said locking lever, whereby a longitudinal movement of the slide will rock said lever to throw its arm to a whip locking or unlocking position.

2. A device of the character described comprising a plate longitudinally arranged within a whip socket and provided with an outstanding curved arm, a locking lever pivotally mounted on said plate and provided with a curved arm complemental to the arm of the plate, a latching slide carried by said plate, and a link connection between said slide and said lever, whereby a longitudinal movement of said slide will rock said lever to throw its arm to a locking or unlocking position.

3. A device of the character described comprising a whip socket provided with a key slot, a plate fast in said socket and provided with a horizontally arranged whip engaging arm, a guide pin carried by said plate, a locking lever pivotally mounted on said plate and provided with a horizontally arranged arm complemental to the arm of the plate, a latching slide mounted on said plate over said pin, and a link connection between said slide and said locking lever.

4. A device of the character described comprising a whip socket provided with a key slot, a plate fast in said socket and provided with a horizontally arranged curved whip engaging arm having a pendent lip at its end, a pin carried by said plate and registering with said key slot, a locking lever pivotally mounted on said plate and having a curved arm complemental to the arm of the plate and having its end nested within said last mentioned arm when said arms are in a whip locking position, a link pivotally connected to said lever, a latching slide provided with a slot, a guide pin carried by said plate and extending through said slot and permitting the longitudinal and lateral movement of said slide relatively to said plate, one end of said slide being pivotally connected to said link, the other end of said slide being provided with notches, pins carried by said plate and adapted to engage with said notches to prevent longitudinal movement of said slide, a spring adapted to force said notches into engagement with said pins, and means for imparting a lateral movement to said slide against the pressure of said spring to release said notches from said pins.

5. A device of the character described, comprising a support, a stationary arm, said stationary arm formed integral with said support and bent at right angles thereto, a locking lever, said lever comprising a body portion eccentrically pivoted to said support, and a gripping arm formed integral therewith and bent at right angles thereto, and means coöperating with said locking lever, whereby when said body portion is locked said locking lever will be locked in an open or closed position.

6. A device of the character described, comprising a support, a stationary arm and a movable arm, locking means comprising a bodily-movable member provided with notches formed therein, a lug carried by said support and adapted to be engaged by said notches, means carried by said support and engaging said bodily-movable member for normally holding one of said notches in engagement with said lug, means adapted to

engage said bodily-movable member and reciprocate the same, whereby when said movement takes place one of said notches will be drawn out of engagement with said lug, and the other notch will be brought into engagement with said lug, and means associated with said bodily-movable member, whereby when said bodily-movable member is actuated said movable arm will also be actuated.

7. A device of the character described, comprising a support, stationary gripping means and pivoted gripping means carried by said support, locking means carried by said support, means pivotally connecting said locking means and pivoted gripping means, a stationary lug fixed to said support, said locking means being capable of pivotal movement and provided with means for engaging said lug and securing said locking means and pivoted gripping means in an adjusted position.

8. A device of the character described, comprising a support, a stationary gripping jaw and a pivoted gripping jaw carried by said support, a locking member carried by said support, means pivotally connecting said locking member to said pivoted jaw, said locking member provided with an elongated opening formed therein, means carried by said support and positioned in said opening for pivotally securing said locking member to said support, a stationary lug fixed to said support, said locking member provided with means for engaging said lug for securing said locking member and pivoted jaw in an adjusted position.

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

JOHN B. HOLLENBECK.

Witnesses:
JOSEPH A. JARVIS,
OLIVER A. COLE.