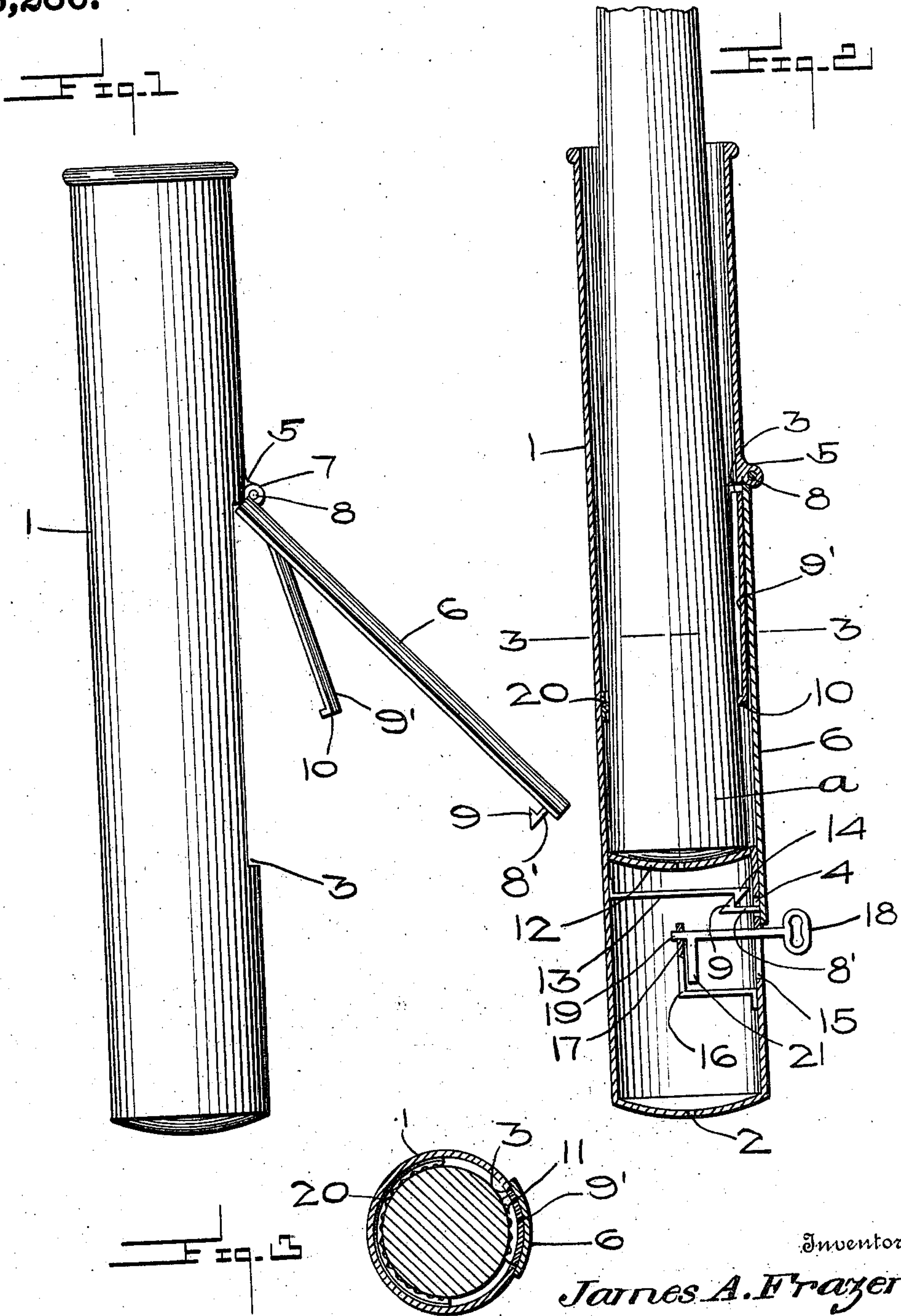


J. A. FRAZER.
WHIP LOCK.
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Patented July 5, 1910.

963,286.



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UNITED STATES PATENT OFFICE.

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WHIP-LOCK.

963,286.

Specification of Letters Patent.

Patented July 5, 1910.

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To all whom it may concern:

Be it known that I, JAMES A. FRAZER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Whip-Locks, of which the following is a specification.

This invention has relation to certain new and useful improvements in whip locks.

The object of my invention is to provide a neat, positively operated whip socket, provided with a readily operated mechanism whereby the whip may be locked within the socket.

With the above and other objects in view, the present invention consists in the combination and arrangement of parts as will be hereinafter more fully described and particularly pointed out in the appended claims, it being understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a part of this specification, and in which like characters of reference indicate similar parts in the several views, Figure 1 shows an elevational view of a whip socket embodying my invention showing the latch plate as released. Fig. 2 is a central sectional view showing the whip locked within the socket. Fig. 3 is a section on line 3—3 of Fig. 2.

In my present invention, I aim to provide a whip socket of conventional conformation with a key operated locking mechanism, by means of which the whip may be securely locked within the socket.

In the drawings the numeral 1 indicates a whip socket provided with the drain opening 2 within its bottom, while located approximately midlength of the ends of the socket, is an opening as shown at 3, while below the opening 3 is an aperture 4, the ear 5 being situated immediately above the larger opening 3.

Hingedly secured to the ear 5 is the latch plate 6 having the ears 7 receiving the pin 8 by means of which this latch plate is secured to the ear 5. This latch plate 6 is of such a length and width as to completely cover the opening 3. Secured to the lower end of the latch plate 6, is a spring catch comprising the plate 8', having the upwardly extending latch head 9 this head being arranged to work through the aperture

4 within the whip socket. Held against the inner face of this latch plate 6, is the keeper as used in my invention comprising a spring plate 9', having the lower inwardly curved end 10 forming a gripping head the edge of which is provided with the serrations 11, the end of the gripping head being curved so as to properly engage with the whip stock when inserted within the socket. In the drawings the whip stock locked within the socket is held upon the transversely positioned bottom forming plate 12 secured immediately above the aperture 4.

Held below the bottom 12, is a detent the form of a spring member 13 having the locking head 14 arranged to be engaged by the spring latching head 9 when the latch plate 6 is secured.

Positioned below the aperture 4, is the key slot 15, to the rear of which is held the key housing 16 having an opening 17, a suitable key 18 being arranged to work through the key slot 15 and having its end 19 held within the opening 17. The head 21 of the key is arranged to engage the detent 13, to release the head 14, resulting in the latch plate 6 springing into an open position, owing to the fact that the keeper 9' is locked against the whip stock under spring tension.

Secured within the whip socket at a point opposite the edge of the gripping head 10, is a corrugated annular member 20 against which the keeper 9' forces the stock of the whip in the locking position of the instrumentalities.

The operation of my device is very simple. When it is desired to lock a whip within the socket, the whip stock is first inserted into the socket, the latch plate 6 is then secured by forcing the catch 8' through the aperture 4 so as to bring the detent into action. In closing the latch plate 6, the resilient or spring latch plate 9' will have been brought into firm engagement with the whip stock, to lock this stock against the oppositely positioned collar 20 in which condition the whip stock will be securely held within the socket. In order to release the whip, a key must be used to actuate the detent that has been described.

The whip locking mechanism above described, is simple and inexpensive in construction and both durable and efficient in operation, and the whip socket may be used without bringing into effect the locking

mechanism in simply allowing the latching plate to swing free of the locking mechanism.

Having thus described my said invention, what I claim as new and desire to secure by

5 United States Letters Patent is:

1. The combination with a whip socket having an opening, of a latch plate hinged to said socket and covering said opening, a spring catch carried by said plate, a detent
10 within said socket engaged by said catch, and a resilient keeper having a gripping head extending into said whip socket said keeper being carried by said latching plate.

2. The combination with a whip socket
15 having an opening, of a latch plate hinged to said socket and covering said opening, a spring catch carried by said plate, a detent within said socket engaged by said catch, a key to release said detent, and a resilient
20 keeper having a gripping head extending

into said whip socket and carried by said latching plate.

3. The combination with a whip socket having an opening, of a latching plate hinged to said socket and covering said opening, a spring catch carried by said plate, a detent within said socket engaged by said catch, a key to release said detent, a resilient keeper having a gripping head extending into said whip socket and carried by said
30 latching plate, and a corrugated annular member within said socket opposite said gripping head all arranged substantially as and for the purpose set forth.

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

JAMES ANDREW FRAZER.

Witnesses:

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