(No Model.)

M. W. RYLAND.

LOCKING WHIP SOCKET.

No. 323,369. Patented July 28, 1885.

Fig. 1.

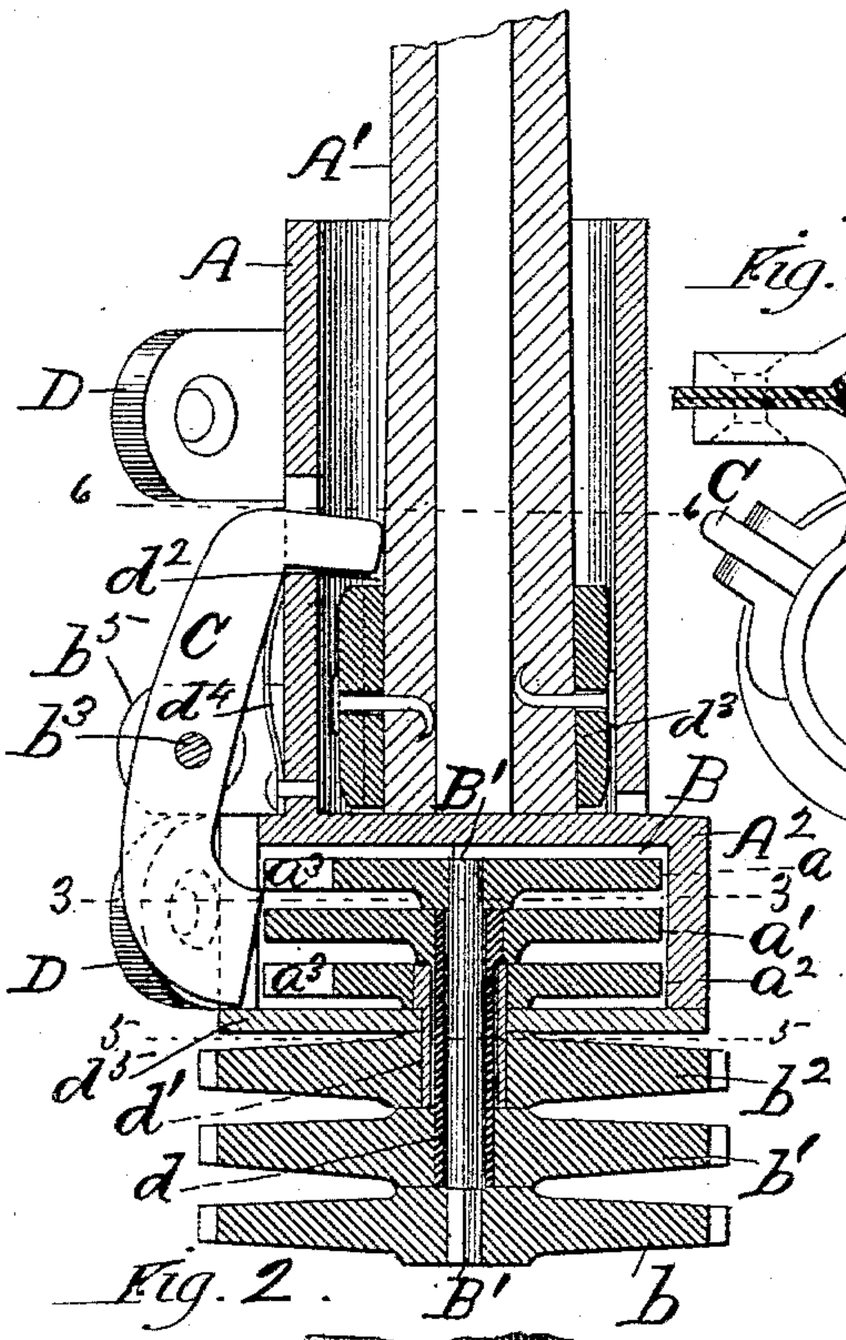


Fig. 2.

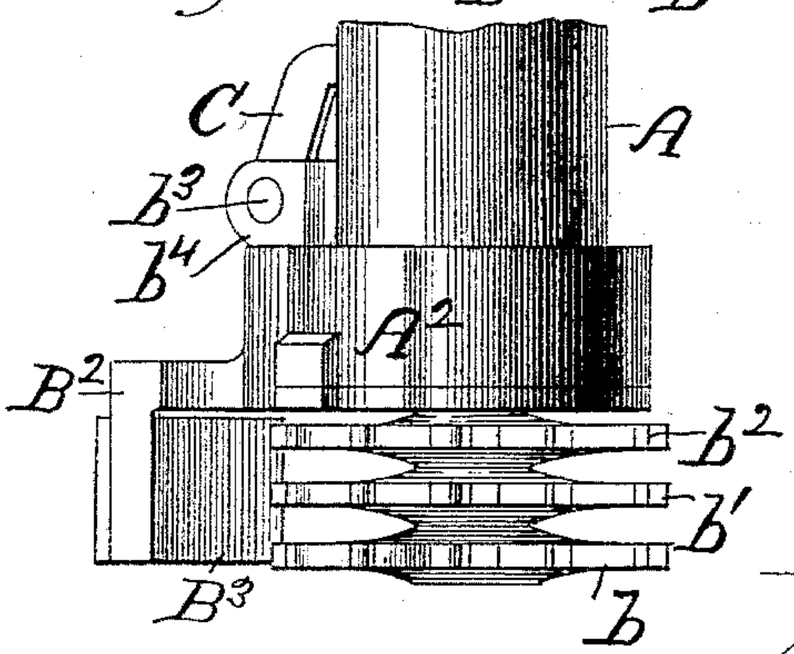


Fig. 3.

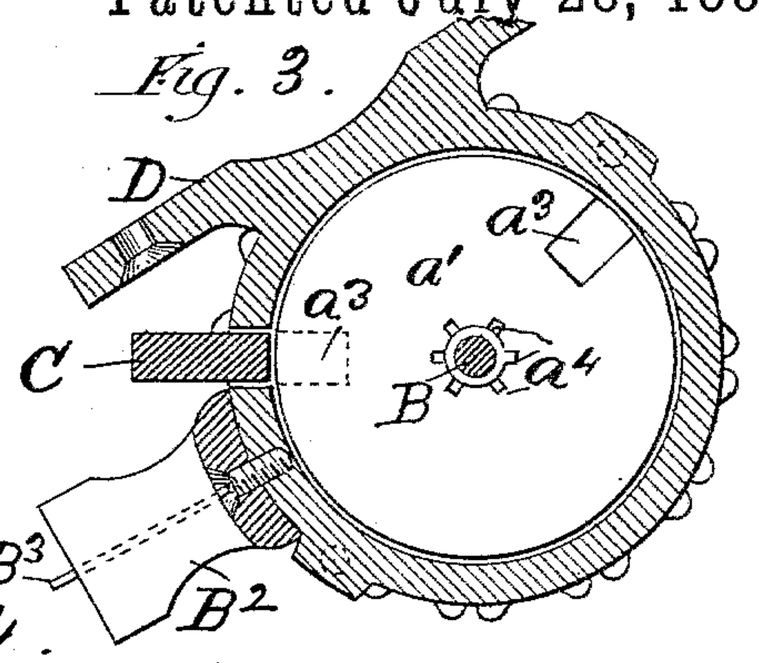


Fig. 4.

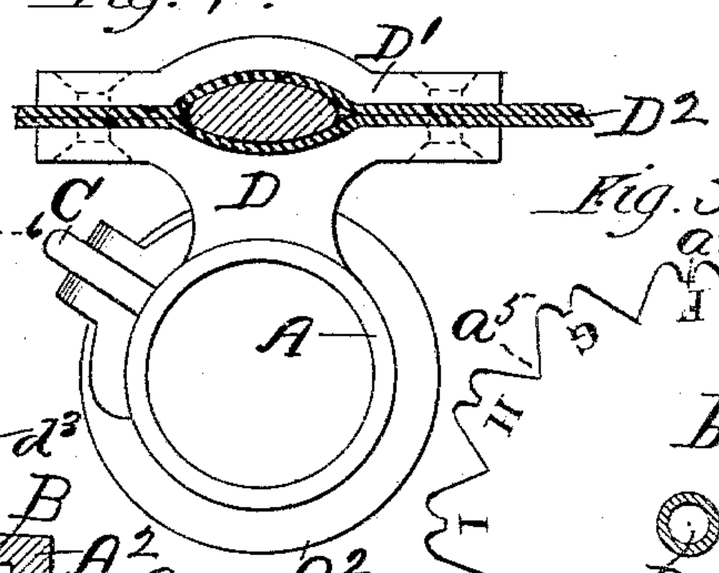


Fig. 5.

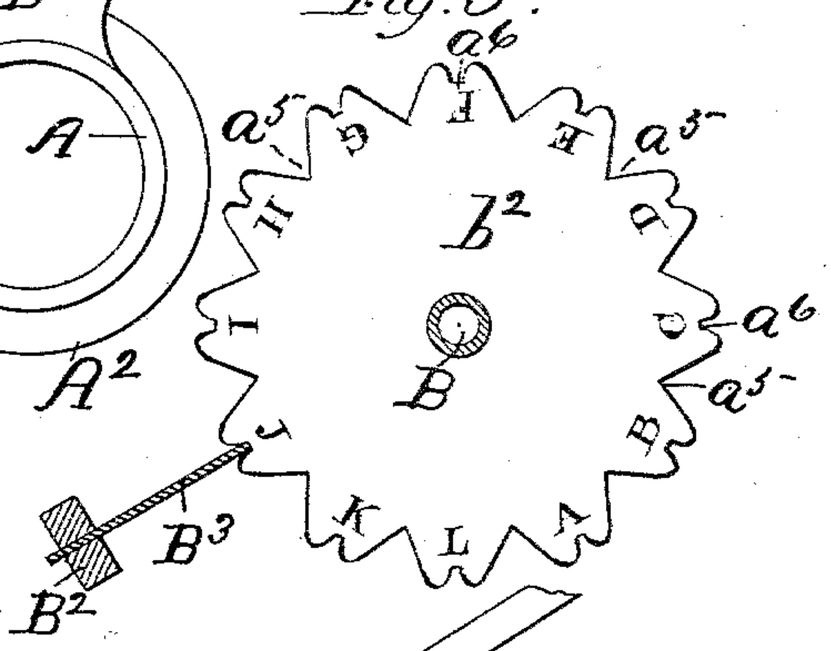


Fig. 6.

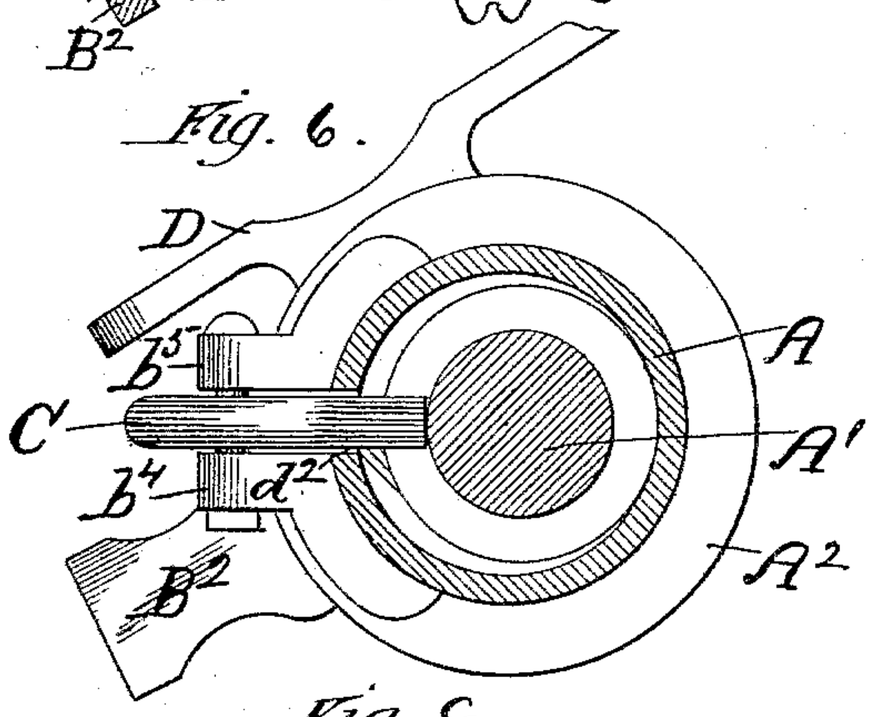
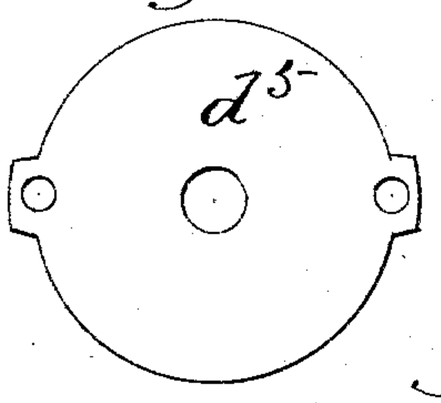
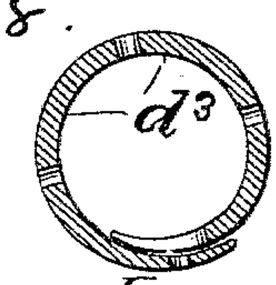


Fig. 8.

Fig. 7





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UNITED STATES PATENT OFFICE.

MARION W. RYLAND, OF WARSAW, INDIANA.

LOCKING WHIP-SOCKET.

SPECIFICATION forming part of Letters Patent No. 323,369, dated July 28, 1885.

Application filed June 1, 1885. (No model.)

To all whom it may concern:

Be it known that I, MARION W. RYLAND, of Warsaw, county of Kosciusko and State of Indiana, have invented certain new and useful Improvements in a Combined Whip Socket and Lock, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

The object of this invention is to provide a combined whip socket and lock whereby a whip may be locked in place and prevented from being stolen; and it consists in certain novel features in the construction, arrangement, and combination of the parts, as will be hereinafter set forth.

Figure 1 is a vertical section of a whip socket and lock embodying my improved features; Fig. 2, a side elevation; Fig. 3, a transverse section in the plane 3 3, Fig. 1; Fig. 4, a plan view showing the edge of the dash-board in section; Fig. 5, a transverse section in the plane 5 5, Fig. 1; Fig. 6, a transverse section in the plane 6 6, Fig. 1. Fig. 7 shows the under side of a detachable plate which closes the lock-chamber in the base of the whip-socket; and Fig. 8 shows a transverse section of a ring adapted to be placed on the butt of a whip-handle.

Referring to the drawings, A represents a whip-socket; A′, the butt of a whip inserted in the same; A^2, an enlarged base formed on the lower end of the socket, and B a lock-chamber in said base. The whip-socket proper may be of any particular design or finish, and in this case is provided with an enlarged hollow base, A^2, in which are placed the series of tumbler-wheels a a' a^2, adapted to rotate in a horizontal plane. The tumbler-wheels are provided with one or more notches, a^3, in the edges, as shown in Figs. 1 and 3, and one or more of the tumbler-wheels have also a number of key-seats, a^4, in the hub, as shown in Fig. 3, which permit of the combination being changed. The upper tumbler-wheel, a, is mounted on the extreme upper end of the spindle B′, which projects below the chamber A^2, and has the letter-disk b mounted on the lower outer end, so that by rotating the disk b a corresponding movement is imparted to the spindle and the tumbler-wheel a. The middle tumbler-wheel, a', is mounted on the upper end of the sleeve d, while the corresponding letter-disk, b', is mounted on the lower projecting end, this sleeve being adapted to turn loosely on and independent of the spindle B′. The third and last of the series of tumbler-wheels a^2 is mounted on the inner or upper end of the second sleeve, d', the corresponding letter-disk, b^2, being mounted on the lower outer end of the sleeve d', which turns loosely on the companion sleeve d. The letter-disks may be provided on their upper edges with letters, as shown in Fig. 5, or other suitable indicating characters. These disks are cut out between each of the letters, forming the V-shaped notches a^5, for the purpose of allowing the characters on the lower companion wheels to be readily observed. These disks are also provided with a second series of smaller notches, a^6, arranged between each of said V-notches. The upper end of the angle-bracket B^2 is secured to the enlarged base of the whip-socket, while the lower end is slotted for the insertion of the outer end of the leaf-spring B^3. The inner end of this spring engages with the series of notches a^6 in the disk-wheels b b' b^2 and forms a click for said wheels, so that the device may be locked by sound when it is not desirable or necessary to lock on the combination. The angular locking-bolt C is provided with a pivotal bearing near its longitudinal center, the pivot-pin b^3 having a bearing in the lugs b^4 b^5, formed on the whip-socket. The upper end of this bolt is adapted to enter the whip-socket through the apertures d^2 and have contact with the whip-stock at a point above the ring d^3, secured to the butt-end of the stock, as shown in Fig. 1, by which means the whip is retained in the socket until unlocked. The lower end of the locking-bolt is adapted to enter and engage with the tumbler-wheels in the lock-chamber when the notches in the edges of the same are brought into line, the spring d^4 automatically throwing the upper end of the bolt out of a locking position.

The locking mechanism may be removed from its chamber by simply taking off the plate d^5.

The whip-socket is provided with one or more clamping-brackets D, having correspond-

ing clamping-plates, D′, to be placed on the opposite side of the dash-board D^2, the two parts being secured together by bolts passing through said dash-board, as shown in Fig. 4.

The lapping-ring d^3, shown in Figs. 1 and 8, is adapted to be attached to the butt-end of whip-stocks, and forms a catch for the locking-bolt. In many cases whip-stocks are made with a knob or ring on the end, in which case the ring d^3 is not required.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a whip-socket having a lock-chamber located in the base thereof, of a number of tumbler-wheels in said chamber, a corresponding series of letter-disks placed below said chamber, and the means described for mounting and connecting said wheels and disks, substantially as set forth.

2. The combination, with a whip-socket provided with a locking mechanism secured to the base, as described, of an angular locking-bolt having a pivotal movement, the upper end of said bolt being adapted to enter said socket and lock the whip in place, and the means for throwing said bolt into an unlocked position, substantially as set forth.

3. The combination, with a whip-socket, of the angle-bracket B^2, the leaf-spring B^3, and the series of letter-disks provided with the notches a^6, substantially as set forth.

MARION W. RYLAND.

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