UNITED STATES PATENT OFFICE.

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WHIP-SOCKET LOCK.


To all whom it may concern:

Be it known that I, EDWARD KUIRTH, a citizen of the United States, residing at Bloomfield, in the county of Knox and State of Nebraska, have invented certain new and useful Improvements in Whip-Socket Locks, of which the following is a specification.

The present invention has reference, generally, to improvements in whip sockets, and the invention relates, more particularly, to a whip socket lock.

The invention has for its principal aim and object to provide a whip socket with novel means for releasably holding the whip within a socket, the locking means being controlled by a suitable key so that when the driver of the vehicle desires to leave the vehicle he will be able to operate the locking means to effectively retain the whip within the socket and thereby prevent unauthorized persons from stealing the whip, incidentally saving the driver or owner of the vehicle from loss and inconvenience.

The invention also consists in the provision of a novel sleeve which is to be carried by the whip and cooperate with the locking means so as to increase the efficiency of the device in general.

More particularly, the present invention embraces improved locking lugs adapted to engage ears on the sleeve and the socket so as to consequently anchor or hold the whip within the socket, improved means being also provided for adjusting the locking means.

A more specific object of the invention consists in the provision of a novel support for the locking lugs as well as novel means for guiding the lugs when actuating.

Among the other aims and objects of the invention may be recited the provision of a device of the character mentioned with a view to compactness, the number of parts of which are few, the construction simple, the cost of production low, and the efficiency high.

Other improvements and novel details in the construction and arrangement of the various parts of the device will be brought out more in detail in the description to follow, which, for a clear understanding of the invention, should be considered in connection with the accompanying drawings forming a part thereof and wherein is disclosed for the purpose of illustration, a convenient and satisfactory embodiment of the invention.

It is to be noted, in this connection, that minor changes in the construction and arrangement of the parts may be made without departing from the spirit of the invention, or principle of the operation of the various parts.

In the drawings:

Figure 1 is a vertical section of my invention partly in elevation, showing the locking means in an open position.

Fig. 2 is a vertical section of my invention showing the locking means in a closed or locked position.

Fig. 3 is a plan view of the whip supporting plate.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now, more particularly, to the drawings, I provide a whip socket 1 which may be and preferably is of a cylindrical formation. A main supporting disk 2 is rigidly connected within the socket in spaced relation to the bottom thereof. A whip supporting plate 3 desirably of a circular conformation has spaced parallel arms 4 depending from opposite sides thereof and rigidly connected in any suitable manner to the disk 2 to support the plate 3 in spaced relation with the disk. The plate is also provided at diametrically opposite points on its periphery with recesses 5 while a sleeve 6 has its upper end serrated to provide teeth 7 for engagement with the handle end of the whip 8, slotted ears 9 depending from diametrically opposite points of the sleeve so as to pass through the recesses 5 and allow the whip and sleeve to be supported on the plate 3.

Now, in order to releasably hold or lock the whip within the socket, I have provided my improved triangular support generally designated by the numeral 10 which has vertically spaced flanges 11 extending in spaced parallel relation from the vertex thereof. Pivots supported between the flanges 11 by means of a suitable pin 12 are...
the locking lugs 13 the inner ends of each of
which terminate in loops 14 to facilitate the
pivotal mounting thereof, while the outer
ends are pointed at 15 for a purpose that
will presently appear. A guide member gen-
erally designated 16 which may be and pref-
erably is of an inverted U-shaped configura-
tion has its intermediate portion rigidly con-
ected to the under surface of the plate 3 by
means of a suitable fastening device 17 while
the sides or flanges are provided with oppo-
sitely disposed diagonally extending open-
ings 18 for supporting the pointed ends 15
and guiding the lugs through the slotted ears
9 when the whip is within the socket.

For the purpose of adjusting the locking
means to consequently removable hold or
anchor the whip within the socket, I have
provided my improved adjusting screw 19,
the said screw being mounted in a corre-
sponding central opening in the disk 2 and
having the outer end reduced as indicated by
the numeral 20 and provided with a shoulder
which rests the intermediate portion
of the support 10, the reduced end 20 being
rotatably mounted in an opening in the said
intermediate portion while a retaining ele-
ment 21 is rigidly connected to the reduced
end subsequent to the arrangement of the
intermediate portion of the support 10
thereabout. The opposite end of the screw
19 is reduced and squared as indicated by
the numeral 22 and is removable engage-
able by the recessed end 23 of a suitable
key 24 insertible in an opening 25 in the
bottom of the socket. Incidentally a spac-
ing ring 26 may be arranged about the
screw and supported on the disk to conse-
quently prevent the lugs from falling out
of the recesses, although by varying the di-
mensions I can obviate the employment of
this ring.

The operation of this invention may be
reviewed as follows:—

Assuming that the handle end of the whip
carrying the sleeve 6 is inserted in the socket
so as to rest on the plate 3 and the ears 9
are arranged in the recesses 5, in order to
lock the whip in position it is only neces-
sary to insert the key 24 through the open-
ing 25 and engage the squared end 22 and
rotate the key so as to raise the screw 19.
Inasmuch as the support 10 is raised with
the screw and by reason of the fact that
the lugs 13 are supported in the guiding
openings 15 when the support is raised the
said lugs will be forced through the open-
ings and through the slotted ears 9 which
are arranged in alignment therewith and be
finally anchored in the inner bore or surface
of the socket 1 to consequently prevent an
unauthorized person from surreptitiously
removing the whip. Of course the key 24
can be removed and kept by the driver.

When releasing the whip it is only neces-
sary to place the key in position to rotate
the screw 19 in an opposite direction which
will draw the lugs back to their former
position.

As many changes could be made in the
above construction and many apparently
widely different embodiments of this inven-
tion could be made without departing from
the scope thereof, it is intended that all
matter contained in the above description
or shown in the accompanying drawings
shall be interpreted as illustrative and not
in a limiting sense.

Having thus described my invention, what
I claim as new and desire to secure by Let-
ters Patent is:

1. A whip socket lock including in com-
bination with a whip, a sleeve carried by the
inner end thereof, and ears extending from
the inner end of the sleeve, a key, a sup-
porting disk mounted in the socket, means
for supporting the whip within the socket,
the said disk being rotatably mounted locking
members in the socket, means for supporting
the outer ends of the locking members and for
engaging the same when actuated, and means
for actuating the locking members to force
them through the ears to lock the whip within
the socket.

2. A whip socket lock including in com-
bination with a whip, a sleeve carried by the
inner end thereof, and ears extending from
the inner end of the sleeve, a key, a sup-
porting disk mounted in the socket, means
for supporting the whip within the socket,
the said disk being rotatably mounted locking
members in the socket, means for supporting
the outer ends of the locking members and for
engaging the same when actuated, and means
for actuating the locking members to force
them through the ears to lock the whip within
the socket.

3. A whip socket lock including in com-
bination with a whip, a sleeve carried by the
inner end thereof, and ears extending from
the inner end of the sleeve, a key, a sup-
porting disk mounted in the socket, means
for supporting the whip within the socket,
a triangular support, locking lugs pivotally
mounted in the triangular support, means
for supporting the outer ends of the lock-
ing lugs and for engaging them during move-
ment, an adjusting screw mounted in the
disk and rotatably connected to the triangu-
lar support for raising the support when
actuated to consequently force the locking
lugs through the slotted ears and to prevent
the withdrawal of the whip, and a key remov-
ably associated with the screw for actuating
the screw.

4. A whip socket lock including, in com-
bination, a member to be secured to a whip
and having slotted ears thereon, a socket, a support within the socket upon which the end of the whip rests, an adjusting screw rotatably mounted within the socket, locking lugs connected to the adjusting screw, means for guiding the locking lugs during movement, and a key removably associated with the adjusting screw for moving the locking lugs in the slots of said ears, whereby the whip is anchored in the socket.

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

EDWARD KURTH.

Witnesses:

H. C. DIERKS,
A. O. NELSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D.C."