

W. H. BEACH.

WHIP LOCK.

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943,729.

Patented Dec. 21, 1909.

Fig. 2

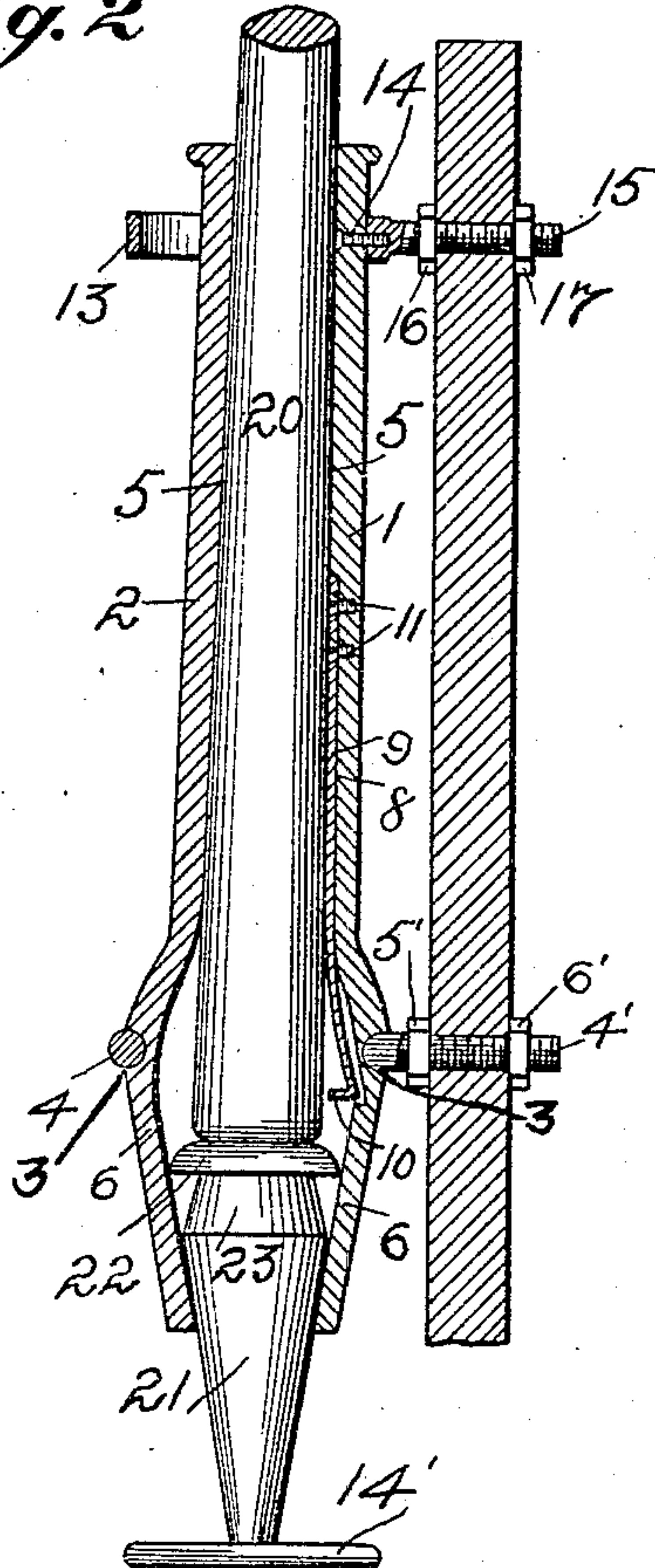


Fig. 1

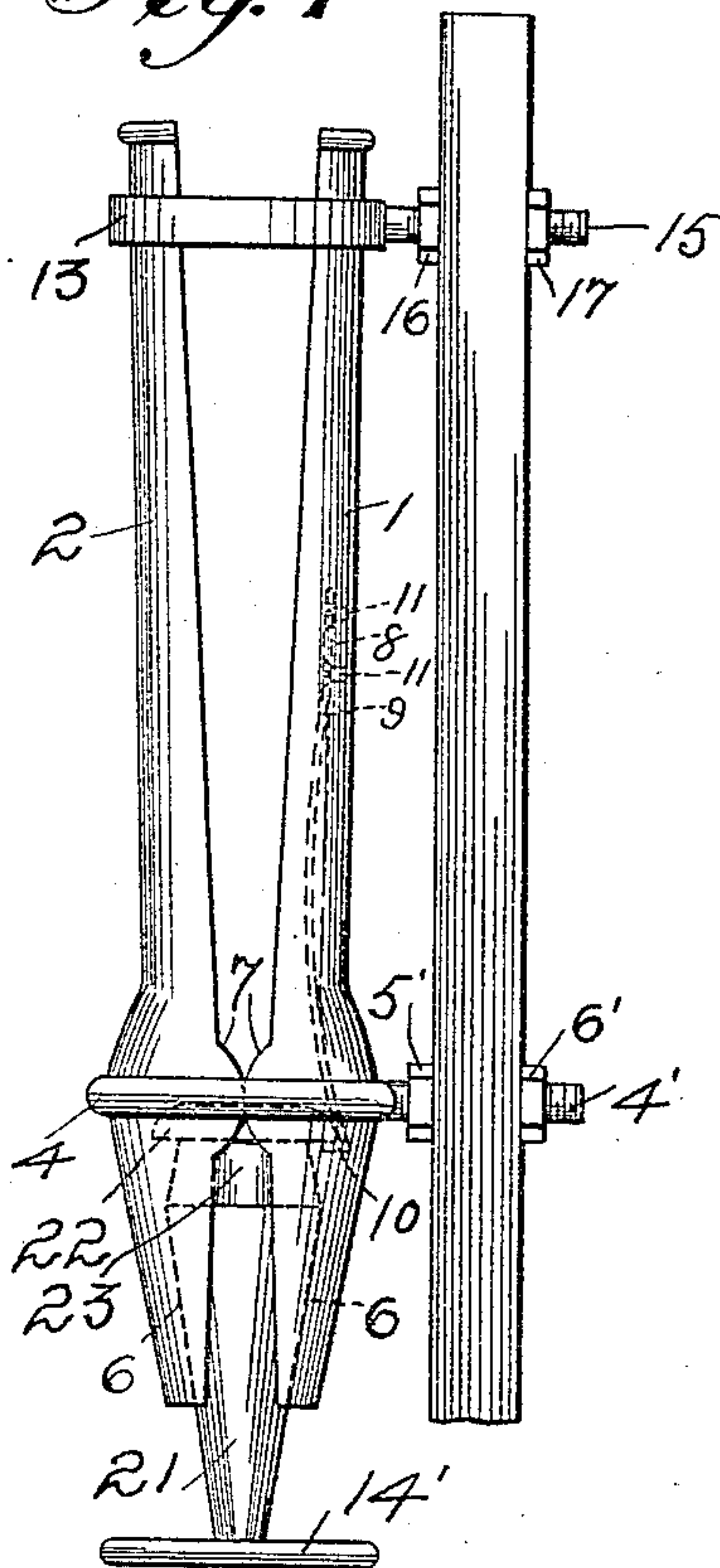


Fig. 3

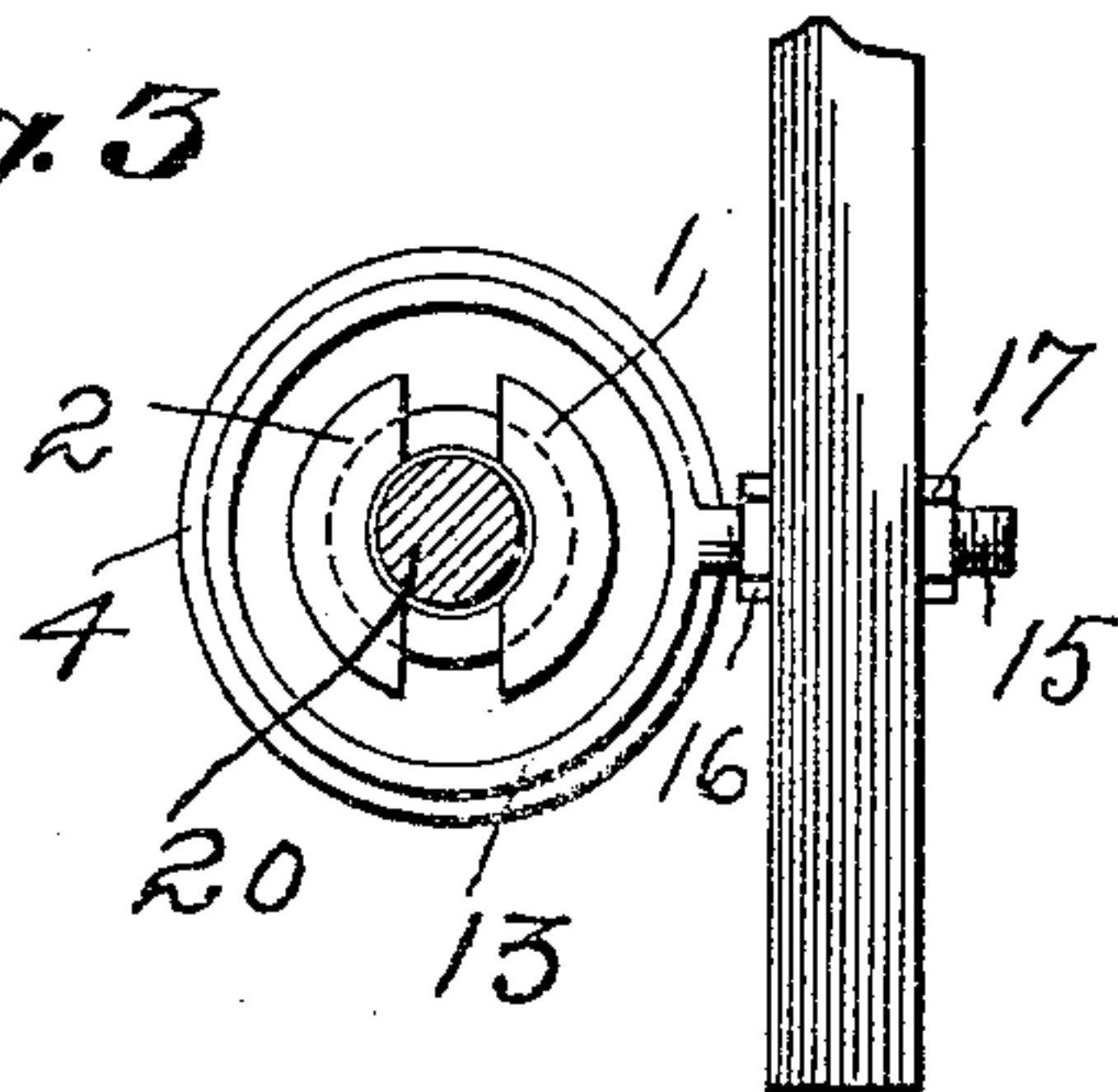
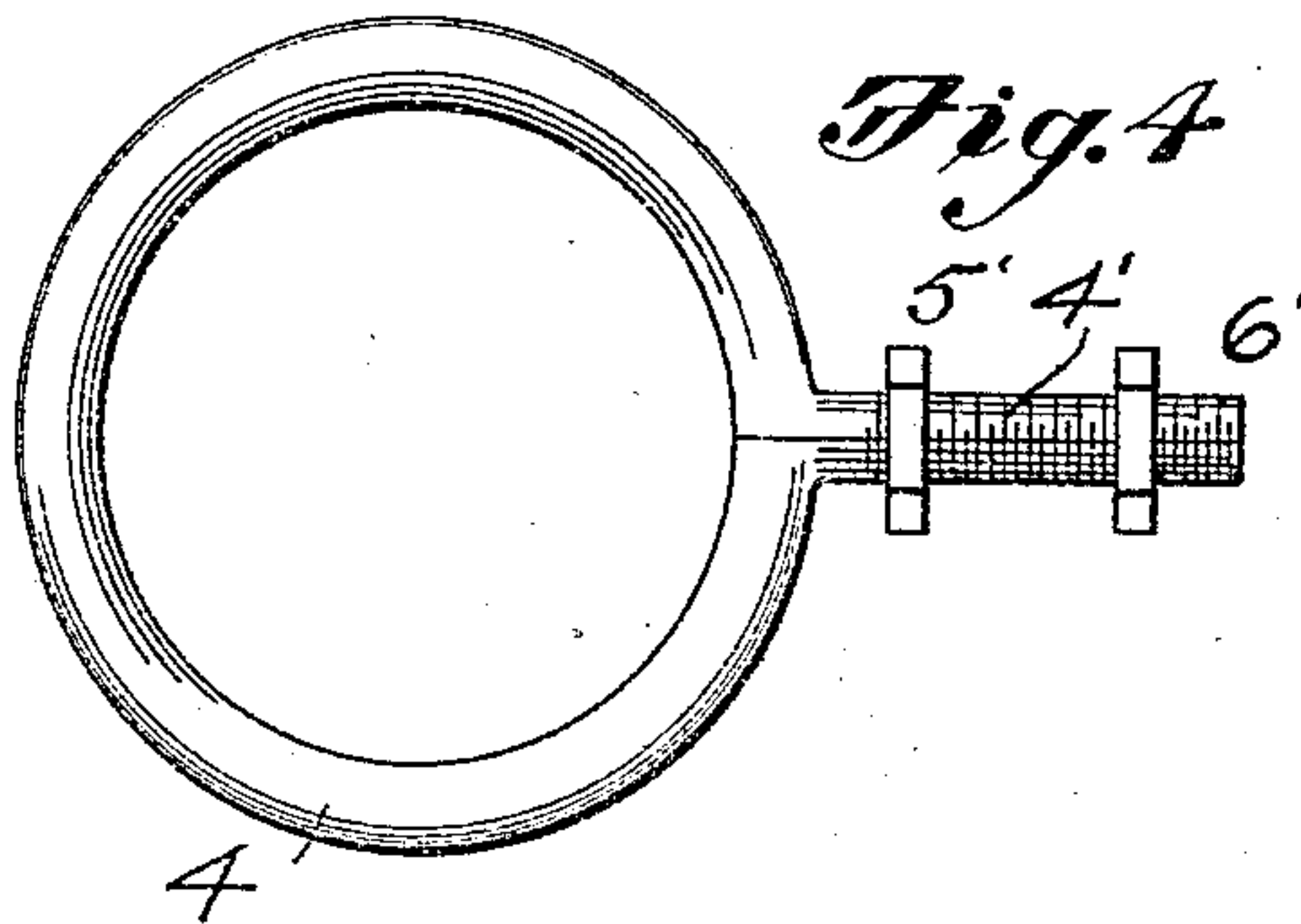


Fig. 4



WITNESSES

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WHIP-LOCK.

943,729.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WALTER H. BEACH, a citizen of the United States, residing at Wyncote, in the county of Laramie and State of Wyoming, 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 light, neat readily operated whip lock so constructed that upon the insertion of the whip stock into the socket the same will be securely held and locked within the socket.

With this 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 portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of a whip socket embodying my invention disclosing the socket in position to receive the whip, Fig. 2 is a longitudinal sectional view through the socket disclosing the whip as locked, Fig. 3 is a top view of the socket, Fig. 4 shows an enlarged detached detail of the carrying annulus as used in my invention.

My invention has for its object to improve the construction and operation of that class of whip sockets arranged to lock the whip.

In carrying out the aim of my invention I employ two similar socket forming members marked 1 and 2 in the drawings each member upon the outside and near the lower end being provided with a groove 3 arranged to receive a supporting annulus 4. Upon the inside the major portion of each socket forms a tapering whip clamping surface 5 as disclosed in Fig. 2, while near the lower inner ends each socket member is provided with a tapering half-socket 6 extending in a direction opposite to the upper tapering socket surface 5. These lower tapering half socket sections extend upward beyond the point of the groove 3 as is disclosed. Each socket member is provided

with a cam edge 7 these sockets being arranged for coengagement, each member having two such mutually adjacent cam edges as shown. One of the socket members, as the one marked 1, is provided with a recess 8 within which is held a spring 9 having the offset lip 10, this spring being secured by means of the pins 11. This lip 10 extends inward practically in alinement with the groove 3. In securing the similar socket members in working position I employ the annulus 4 which is in the form of a ring having the split ends 4' each end being semicylindrical with two ends forming a threaded stem arranged to receive the nuts 5' and 6' by means of which this carrying annulus is secured to the dashboard. This socket member 1 near the upper end carries the stop collar 13 secured by means of the screw 14 this stop collar having the bolt 15 carrying the nuts 16 and 17 by means of which this socket member is secured to the dashboard at its upper end. This stop collar 13 controls the outward movement of the pivotally held moving member 2. Owing to the cam faces 7, the outer member 2 may be rocked backward and forward, in the operation of locking and releasing the whip stock. In Fig. 2 a fragmentary portion of a whip stock is shown at 20.

Reciprocating within the lower tapering half-sockets 6, is the cone-shaped plunger 21 provided with the rounded head 22 below which is positioned a chamfered circum-scribing collar or groove 23 into which the outstanding spring lip 10 works in the operation of the device. At its lower end, this cone-shaped plunger is provided with the operating disk 14'.

In arranging the socket to receive a whip, the operator places the toe of his foot below the plate 14' to carry the plunger head 22 upward which results in the member 2 being carried outward as the head contacts with the upper portion of the socket sections. In this position, the lip 10 springs below the head so that the whip socket is held in an open position to receive the whip. In this position, the spring 9 extends within the path of the whip so that as the whip is inserted into the socket the lip 10 is disengaged permitting the plunger 21 to gravitate downward. The whip stock 20 is further firmly driven downward so that the plunger 21 comes into firm contact with the lower socket ends insuring the upper ends of the

socket members being brought firmly together to securely lock the whip within the socket. The whip 20 can then only be disengaged by carrying the plunger 21 upward.

5 This whip socket is simple and inexpensive in construction, is durable and efficient in operation, and the whip may be locked within the socket with ease, accuracy and despatch.

10 Having thus described my said invention, what I claim as new and desire to secure by United States Letters Patent is:

15 1. A whip lock comprising two similar members, each having a groove near the lower end and two mutually adjacent cam edges for coengagement, each member having a tapering half-socket upon the inside and near the lower end extending above said groove, a spring secured to one of said members having an outstanding lip arranged to be held within the socket formed by said two members, a securing annulus held within said grooves to movably connect said two members, and a cone-shaped plunger held within said tapering socket having a circumscribing chamfer engaged by said lip.

20 2. A whip lock comprising two similar members each having a groove near the lower end and two mutually adjacent cam edges for coengagement, each member having a tapering half-socket upon the inside and near the lower end extending above said

groove, a spring secured to one of said members having an outstanding lip arranged to be held within the socket formed by said two members, a stop collar carried by one of said members, a securing bolt extending from said stop collar, a securing annulus held within the grooves of said members to movably connect said members, and a cone-shaped plunger held within said tapering socket having a circumscribing chamfer engaged by said lip. 35 40

3. A whip lock comprising two similar members, each having a groove near the lower end and two mutually adjacent cam faces for coengagement, each member having a tapering half-socket near the lower end, a securing annulus held within said grooves provided with two extending threaded ends, a spring secured to one of said members having an outstanding lip arranged to be held within the socket formed by said two members, and a cone-shaped plunger held within said tapering socket having a circumscribing chamfer all arranged substantially as and for the purpose set forth. 45 50 55

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

WALTER H. BEACH.

Witnesses:

E. C. BEACH,
H. W. YODER.