

No. 865,000.

PATENTED SEPT. 3, 1907.

B. H. SHORT.

WHIP SOCKET LOCK.

APPLICATION FILED APR. 11, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

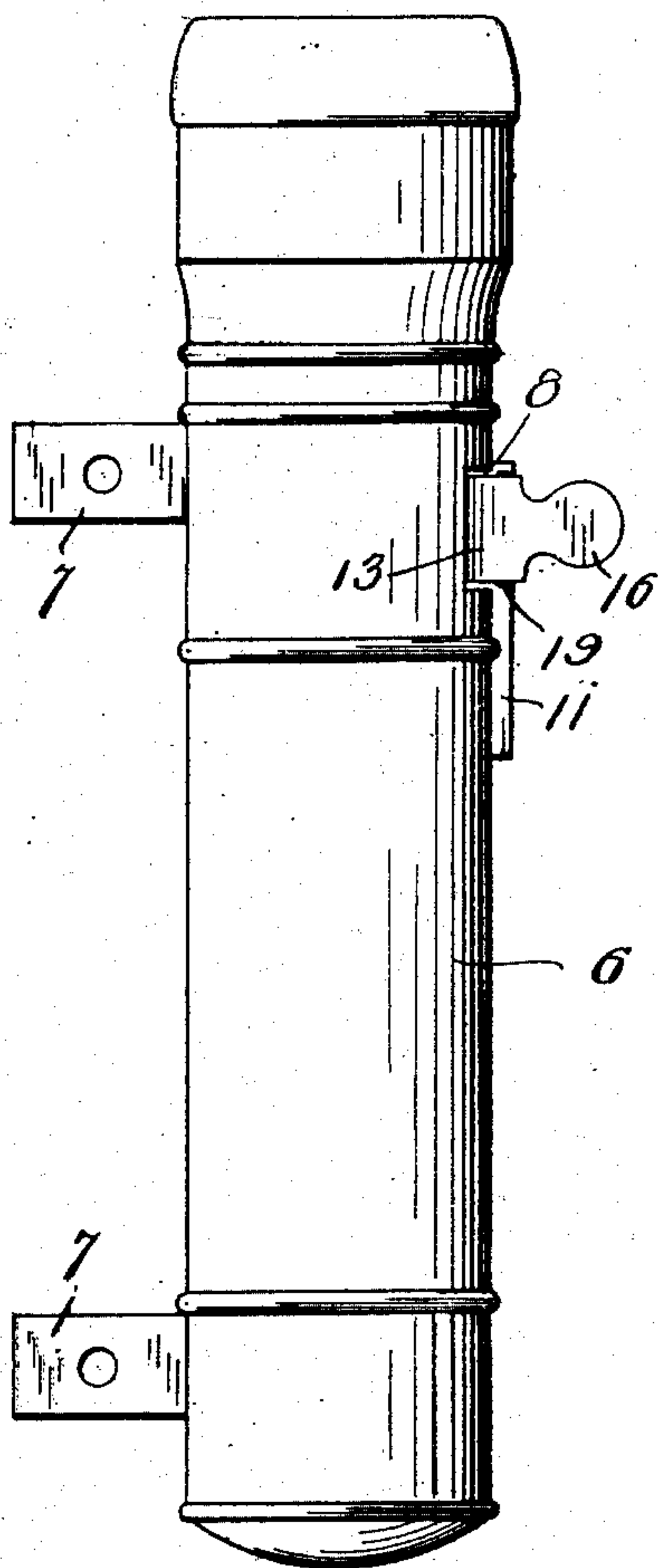
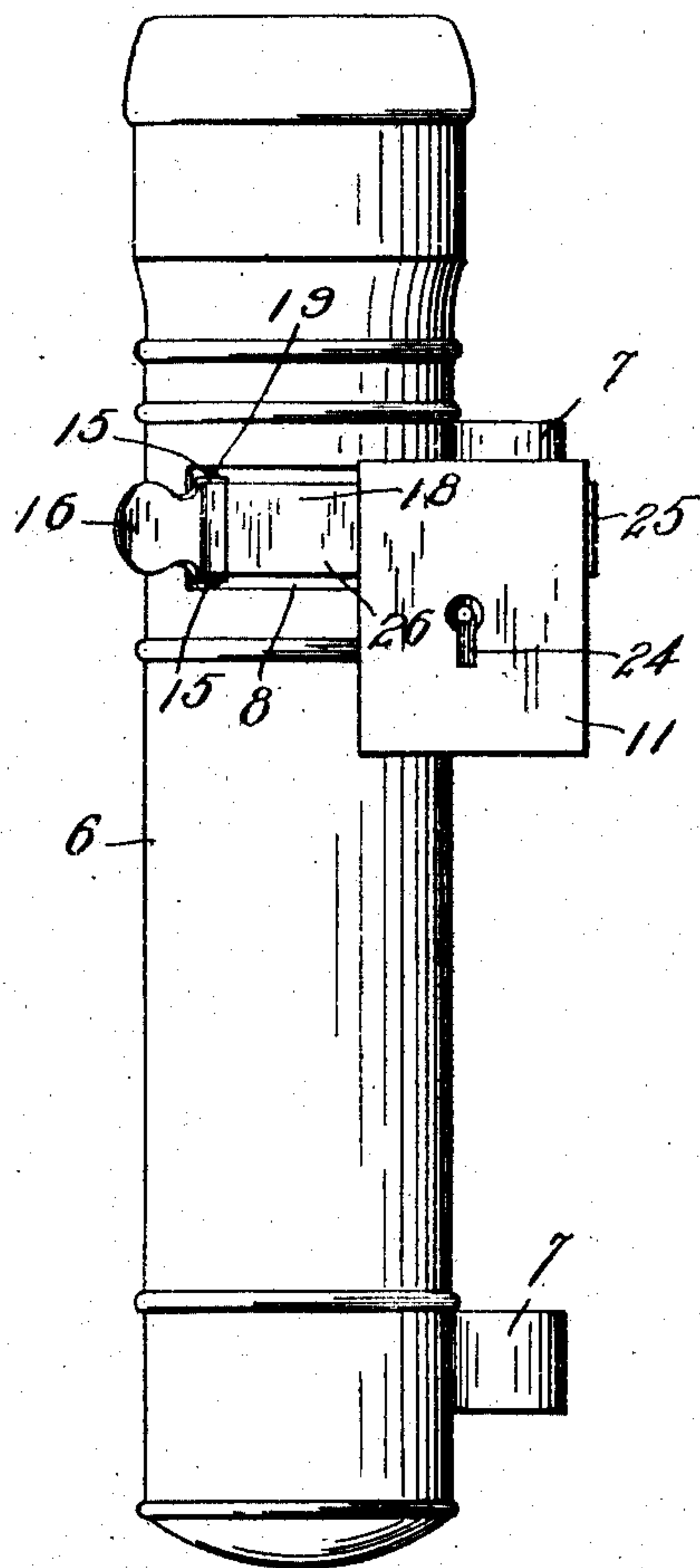


Fig. 2.



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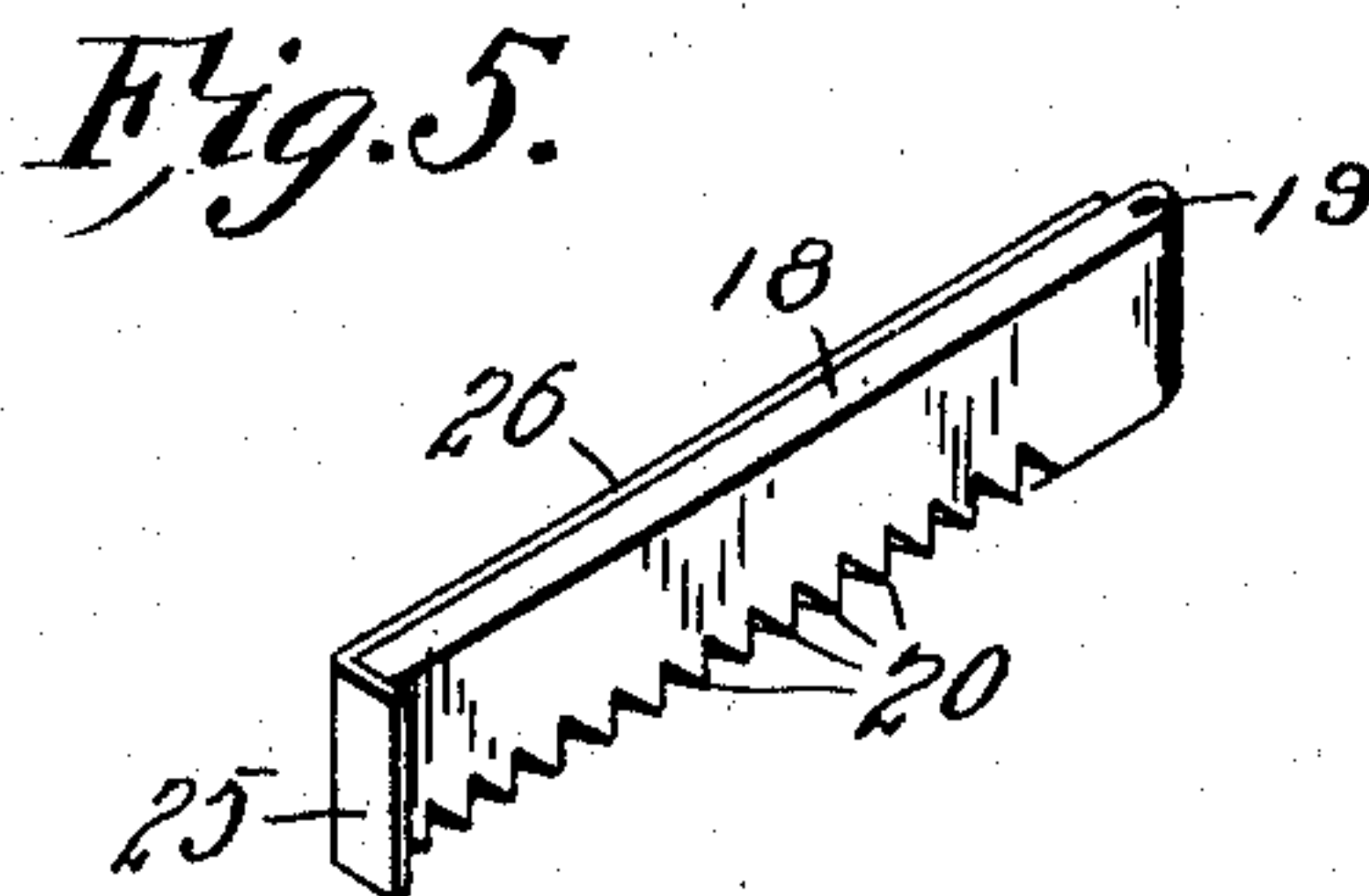
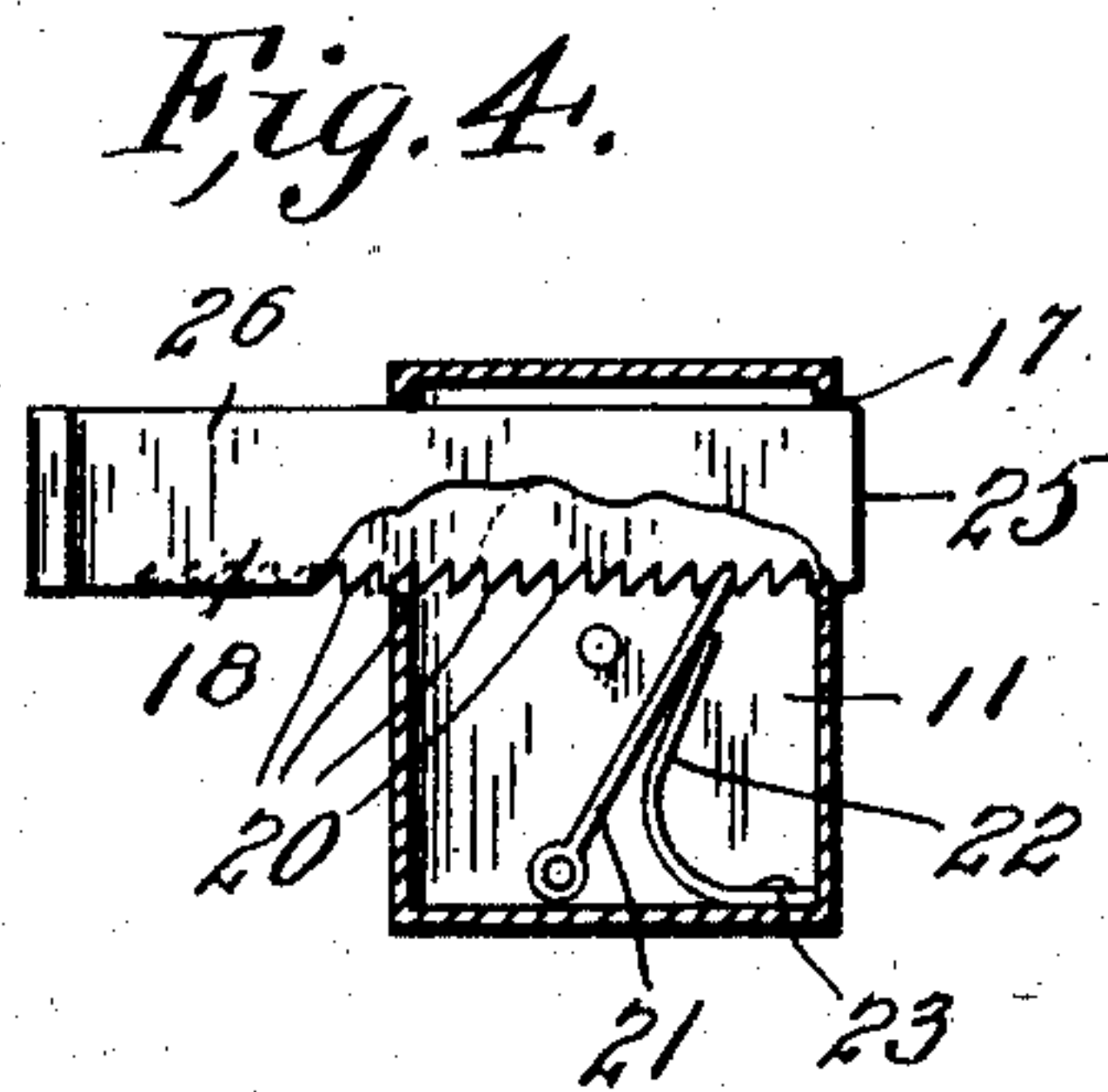
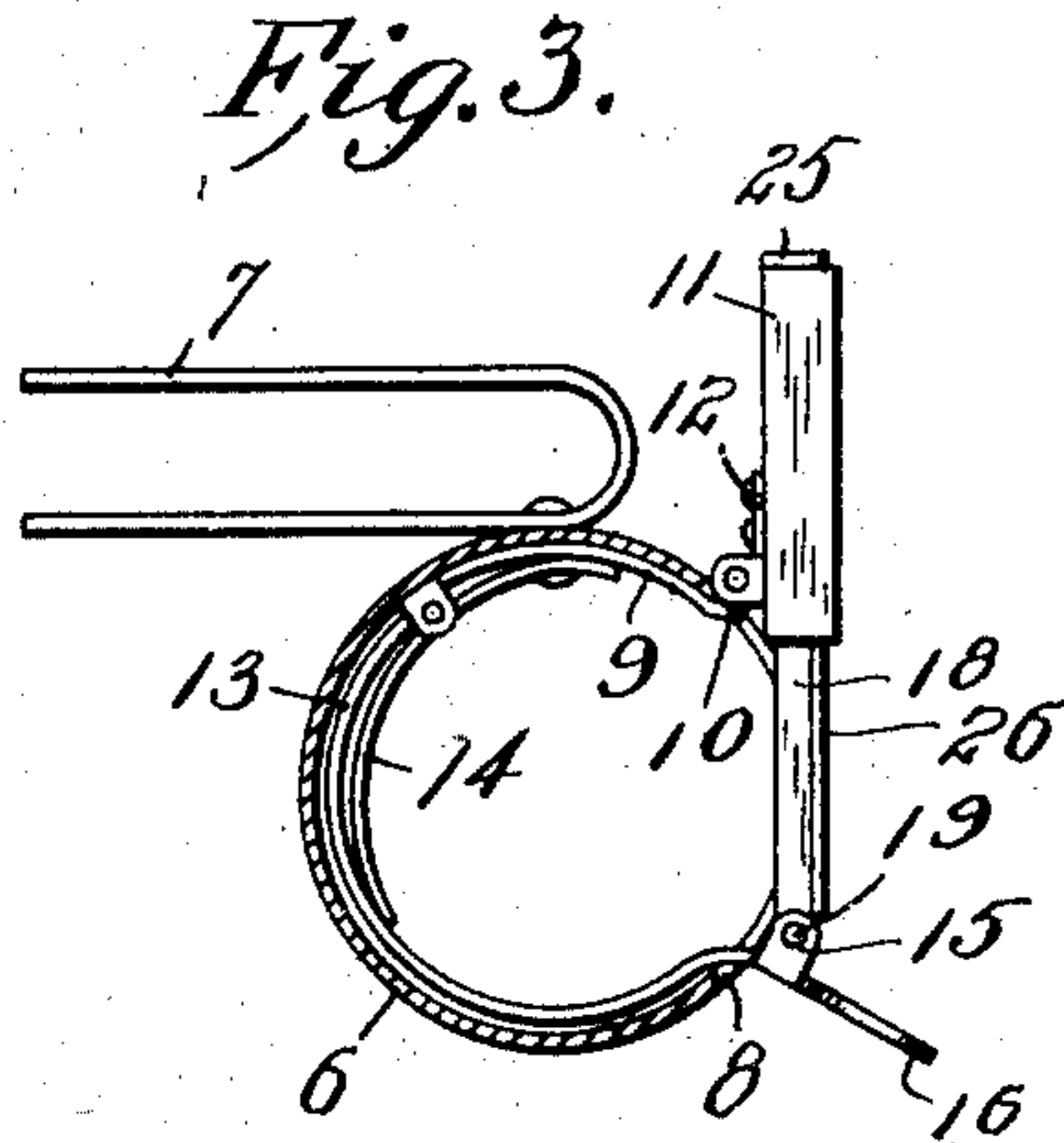
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UNITED STATES PATENT OFFICE.

BENJAMIN H. SHORT, OF HIGH POINT, MISSOURI.

WHIP-SOCKET LOCK.

No. 865,000.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed April 11, 1907. Serial No. 367,563.

To all whom it may concern:

Be it known that I, BENJAMIN H. SHORT, a citizen of the United States, residing at High Point, in the county of Moniteau, State of Missouri, have invented certain new and useful Improvements in Whip-Socket Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 This invention relates to whip-socket locks and has for its object to greatly simplify the construction of such devices and particularly the lock mechanism therefor. Heretofore the locks proper for devices of this class have included tumblers and other complicated parts which only served to render the same less efficient by reason of their delicacy of construction.

15 The lock proper for the whip-socket embodied in my invention includes no tumblers in its construction and in fact is so arranged that by turning the key to unlock the device, the whip gripping member will be automatically expanded to release the whip and in fact the operation of the lock proper depends to a great extent upon this normal tendency toward expansion, of the whip gripping member.

20 In the accompanying drawings, Figure 1 is a front elevation of the socket, Fig. 2 is a side elevation thereof, Fig. 3 is a top plan view, the socket proper however being shown partly in section, Fig. 4 is a detail view in elevation of the lock proper of the device, the casing of the same being broken away, and, Fig. 5 is a detail perspective view of the locking bolt of the device.

25 In the drawings the numeral 6 denotes the socket proper of the device and is in itself of the ordinary construction, including clips 7 for attachment to the dash of a vehicle. An opening 8 is formed through the side of the socket and riveted or otherwise secured upon the inner wall of the socket at the front thereof is an arcuate strip 9 which has one of its ends extended through the opening 8 and formed into a pintle lug 10 which forms one member of a hinge, the other member being secured upon the back of a lock casing 11 and being indicated by the numeral 12. Hinged to the opposite end of the arcuate strip 9 and within the socket proper is a whip gripping strip 13 which is also arcuate in form and is normally held at the limit of its movement from the strip 9 by means of a leaf spring 14 which is secured to the inner face of the arcuate

strip 9 and bears against the corresponding face of the strip 13.

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The strip 13 extends through the opening in the socket and has formed upon it directly outwardly of the socket, a pair of ears 15 and beyond these ears a finger piece 16 which may be pressed to move the strip 13 into gripping engagement with a whip inserted in the socket against the tension of the spring 14 for a purpose to be presently described.

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The lock casing 11 is provided through its end walls, and at its upper end with slots 17 for the slidable reception of a locking bolt 18 which is hinged as at 19 between the ears 15 upon the strip 13. This bolt is provided upon its under side with a plurality of rack teeth 20 and with these rack teeth is interchangeably engaged the free end of a pivoted detent 21, against which bears a leaf spring 22 which is bowed as clearly shown in Fig. 4 of the drawings and is secured as at 23 to the bottom wall of the lock casing. The casing is provided with a key hole 24 in which may be inserted a suitable key which when turned engages the pivoted detent 21 and moves it out of engagement with the rack teeth 20 upon the bolt 18.

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From the foregoing description of my invention it will be observed that after the whip has been placed in the socket, the finger piece may be pressed in the direction of the lock casing to cause the strip 13 to clamp the whip in the socket, the sliding bolt 18 being moved inwardly of the casing and being held so that the whip will be retained until the bolt is released by the key for the lock.

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In order to prevent complete withdrawal of the bolt 18 from the lock casing, the bolt is provided at its extreme outer end with a flange 25 which extends at right angles to the bolt and abuts the edge of the casing when the bolt has been withdrawn to a certain degree.

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To prevent the rack teeth upon the locking bolt engaging the edges of the opening in the casing through which it passes, a plate 26 is secured upon one face of the bolt and is of such dimensions that its lower edge extends in a common plane with the points of the teeth and itself engages the adjacent edges of the openings in the casing to perform the function above described to it.

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What is claimed is—

A device of the class described comprising a socket member, a lock casing hinged to the socket, a spring

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pressed detent in the lock casing, a whip handle gripping member pivoted to the casing and located within the socket member, a bolt pivoted to the gripping member and slidably engaged through the lock casing, said bolt
5 being toothed for the engagement therewith of the detent, a finger piece connected with the whip handle gripping member whereby it may be contracted, the normal tendency being for it to spread, and a strip secured to one
10 face of the bolt and having its lower edge coincident with the points of the teeth of the bolt, the strip having

its outer end bent laterally to extend across and beyond the outer end of the bolt whereby complete withdrawal of the bolt from the lock casing will be prevented.

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

BENJAMIN H. SHORT.

Witnesses:

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G. F. TISING.