

No. 799,541.

PATENTED SEPT. 12, 1905.

E. B. CURRY.
BOLT HOLDER.

APPLICATION FILED JAN. 4, 1905.

Fig. 1.

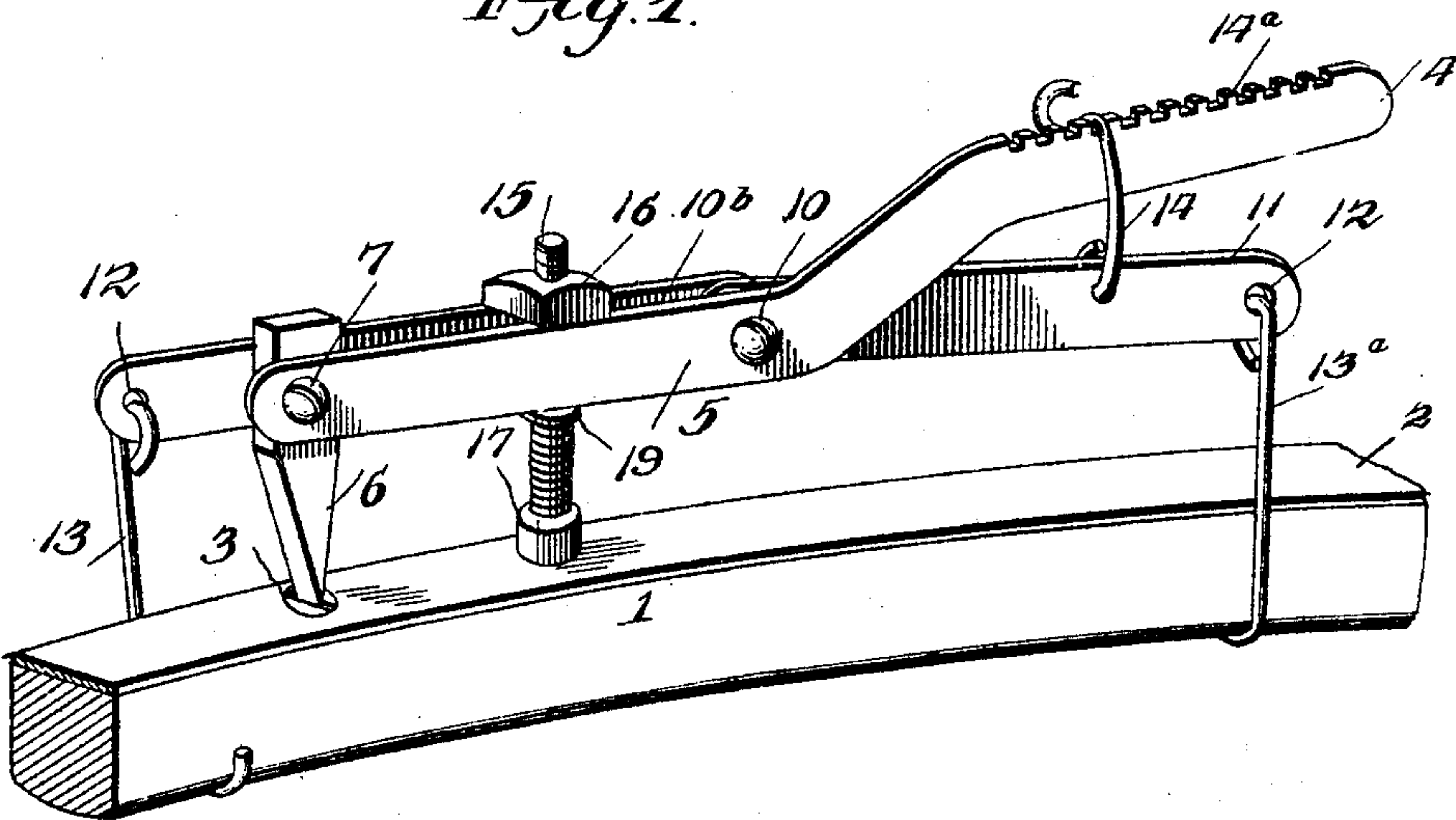


Fig. 2.

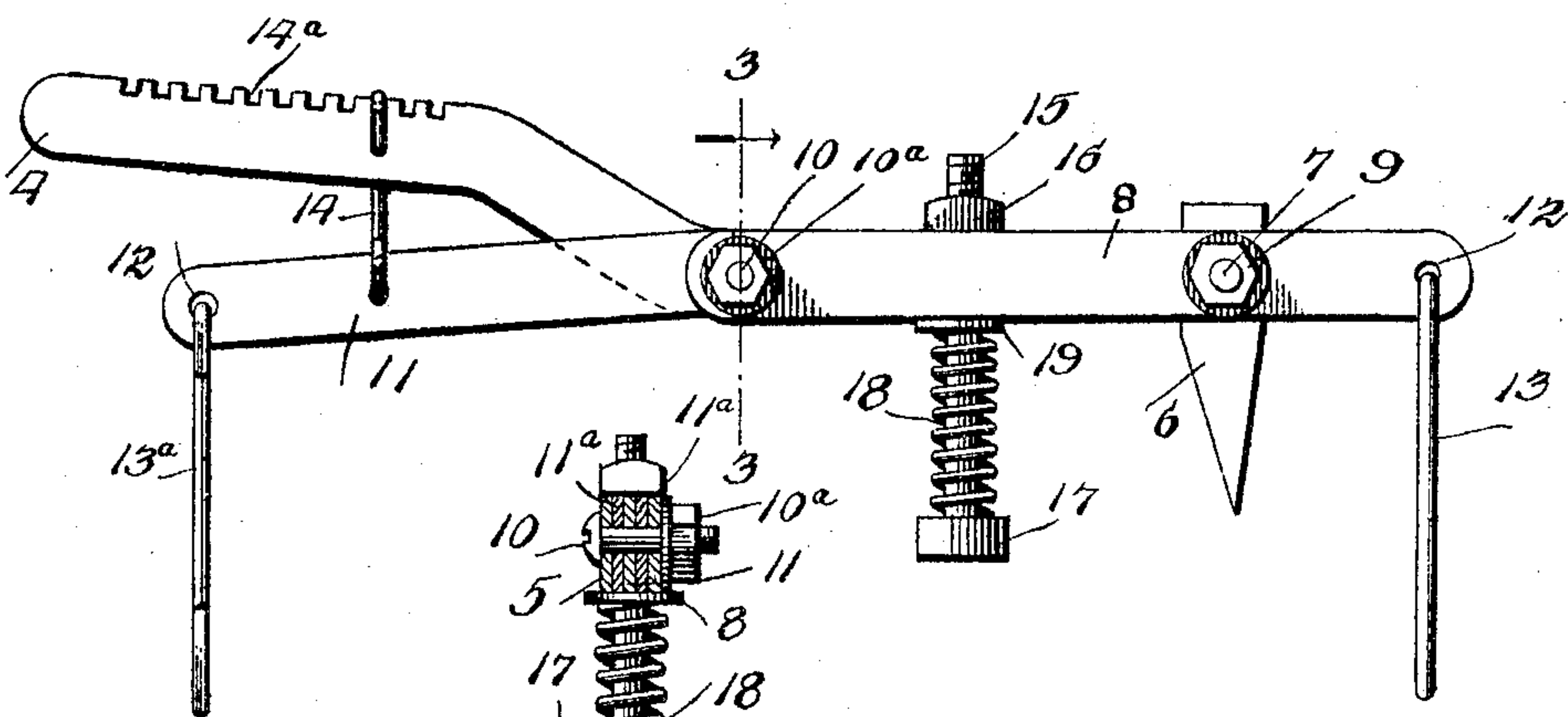
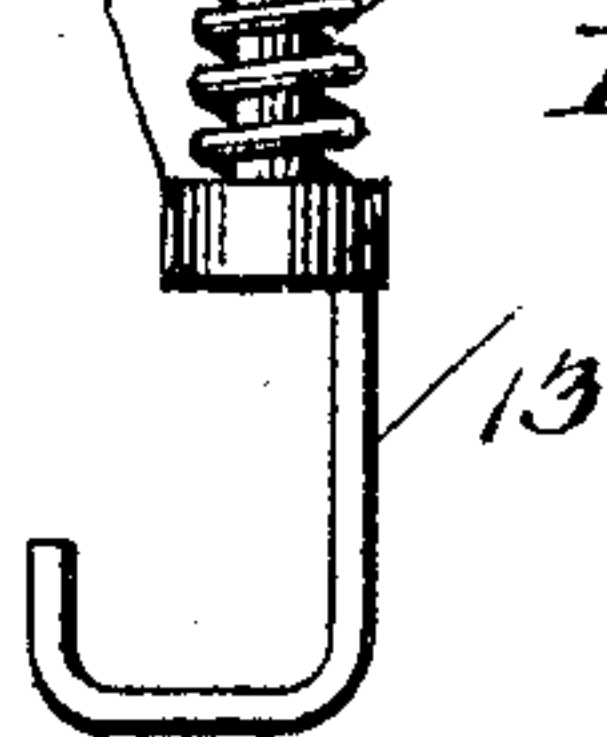


Fig. 3.



Witnesses
Frank C. Hough
John F. Byrum.

Inventor
Eugene B. Curry.

By Victor J. Crane
Attorney

UNITED STATES PATENT OFFICE.

EUGENE B. CURRY, OF PAYSON, ILLINOIS.

BOLT-HOLDER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EUGENE B. CURRY, a citizen of the United States, residing at Payson, in the county of Adams and State of Illinois, have invented new and useful Improvements in Bolt-Holders, of which the following is a specification.

My invention relates to devices for holding a bolt against movement while applying or removing a nut; and its primary object is to provide a novel and highly useful device of this character which is adapted to be automatically retained in applied position without the assistance of the operator.

A further object of the invention is to provide a device of the character stated which is simple of construction, cheap to manufacture, durable and efficient, and which has its parts so arranged and constructed that all liability of the device becoming broken or inoperative is obviated.

The invention consists in the construction, combination, and arrangement of parts hereinafter fully described, claimed, and illustrated in the accompanying drawings, which disclose the preferred form of my invention, and in which—

Figure 1 is a detail perspective view of my improved device shown in applied position. Fig. 2 is a detail side elevation of the same, and Fig. 3 is a sectional view on the line 3-3 looking in the direction of the arrow.

Referring to the drawings by reference-numerals, 1 designates a felly, and 2 a tire, of an ordinarily-constructed wheel, the tire being secured in applied position upon the felly by means of a bolt 3, as is usual.

4 designates a handle provided with a downwardly and forwardly projecting portion 5, said extremity having rigidly but removably secured thereto a spur 6, which is adapted to engage the bolt 3 to prevent its turning while applying or removing a nut. The spur is held in applied position by means of a bolt 7, which is provided with a squared shank to prevent the turning of the spur thereon and has its threaded end projected to receive a plate 8. This plate 8 is arranged in parallelism with the portion 5 and secured upon the bolt 7 against lateral movement by means of a nut 9. The plate 8 is held from turning upon the bolt 7 by means of a bolt 10, which passes through the portion 5 and one end of the plate 8, and mounted upon said bolt 10 is a nut 10^a. This manner of securing the plate in applied position prevents it from

having any movement and also spaces it from the portion 5, whereby to provide a space 10^b, the purpose of which will be presently set forth. Pivottally mounted upon the bolt 10 between the plate 8 and portion 5 is a lever 11, the same being held against lateral movement upon the bolt by means of washers 11^a. The opposite extremities of the plate 8 and lever 11 are provided with openings 12 to permit of the application of gripping bar or hook members 13 and 13^a, the same being adapted to engage under the felly 1, as is fully illustrated in Fig. 1 of the drawings. The lever 11 is provided with a pivottally-mounted catch 14, which is adapted to engage one of a series of notches 14^a in the upper edge of the handle 4, whereby to prevent said lever from having a downward movement upon the bolt 10.

In order to retain the device in applied position without the assistance of the operator, it is necessary in this instance to exert an upward pressure upon the portion 5 and plate 8. Such an upward pressure situated between the tire and said members of the device will cause the gripping-bars 13 and 13^a to firmly engage the felly 1, and thereby obviate all liability of the device having any unauthorized movement when in applied position. This pressure device consists of a bolt 15, which is mounted within the space 10^b for vertical movement, the same being held from downward movement by means of a nut 16, secured to the bolt and engaging the upper edges of the plate 8 and portion 5. The lower end of the bolt 15 is provided with an enlarged head 17, which is adapted to rest upon the tire 2. Mounted upon and surrounding the bolt 15 is a spring 18, which is interposed between the head 17 and a washer 19, the latter being mounted upon the bolt and adapted to engage the under edges of the portion 5 and plate 8.

It is apparent that as the bolt 15 is mounted for movement within the slot 10^b the application of the device to a wheel will cause the depression of the spring 18, as is fully illustrated in Fig. 1 of the drawings, thus causing an upward pressure between the tire and the device. This upward pressure will cause the gripping-bars 13 and 13^a to frictionally engage the under surface of the felly 1, and thereby hold the device in applied position against unauthorized movement.

The application of the device may be stated in the following manner: The gripping-bar 13 is first brought into position to engage the un-

der side of the felly 1, then the spur 6 is positioned to engage the head of the bolt 3, and thence the gripping-bar 13^a is caused to engage the felly. In view of the pivotal connection between the handle 4 and lever 11 spring 18 will not be compressed. Consequently the spring will not exert an upward pressure, and in order to compress the spring, and consequently to provide the upward pressure which retains the device in applied position, the latch 14 is swung to engage one of the notches 14^a, thereby making rigid the lever 11. The amount of pressure which the spring 18 is to exert may be determined by moving the lever 13 along the notched edge 14^a of the handle 4 in a manner that is apparent to those skilled in the art.

Having thus described my invention, what I claim as new is—

1. A device of the character described, comprising a handle, a spur secured to said handle, gripping-bars carried by said handle, and means for exerting an upward pressure to retain the device in applied position.
2. A device of the character described, comprising a handle, a spur carried by said handle, gripping-bars, and spring means adapted to exert an upward pressure to retain the device in applied position.
3. A device of the character described, comprising a handle, a spur secured to said handle, gripping-bars carried by said handle, and means interposed between the article engaged

by the gripping-bars and handle to retain the device in applied position.

4. A device of the character described, comprising a handle, a spur secured to said handle, gripping-bars secured to said handle and adapted to engage the felly of the wheel, a bolt movably mounted on said handle and adapted to engage the wheel-tire, and a spring surrounding the bolt and adapted to exert an upward pressure upon the handle.

5. A device of the character described, comprising a handle, a spur carried by said handle, a lever pivotally secured to said handle, gripping-bars carried by the handle and lever, a latch carried by the lever and adapted to engage the handle, and spring means to retain the device in applied position.

6. A device of the character described, comprising a handle, a spur secured to said handle, a lever secured to said handle, gripping-bars carried by the handle, a latch carried by the lever and adapted to engage the handle, a bolt movable on the handle and provided with an enlarged head, and a spring surrounding said bolt and interposed between the head and handle.

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

EUGENE B. CURRY.

Witnesses:

BENJ. D. GRISTY,
G. M. TANNERNE.