

No. 696,006.

Patented Mar. 25, 1902.

H. C. CARTER.  
BOLT HOLDER.

(Application filed Nov. 18, 1901.)

(No Model.)

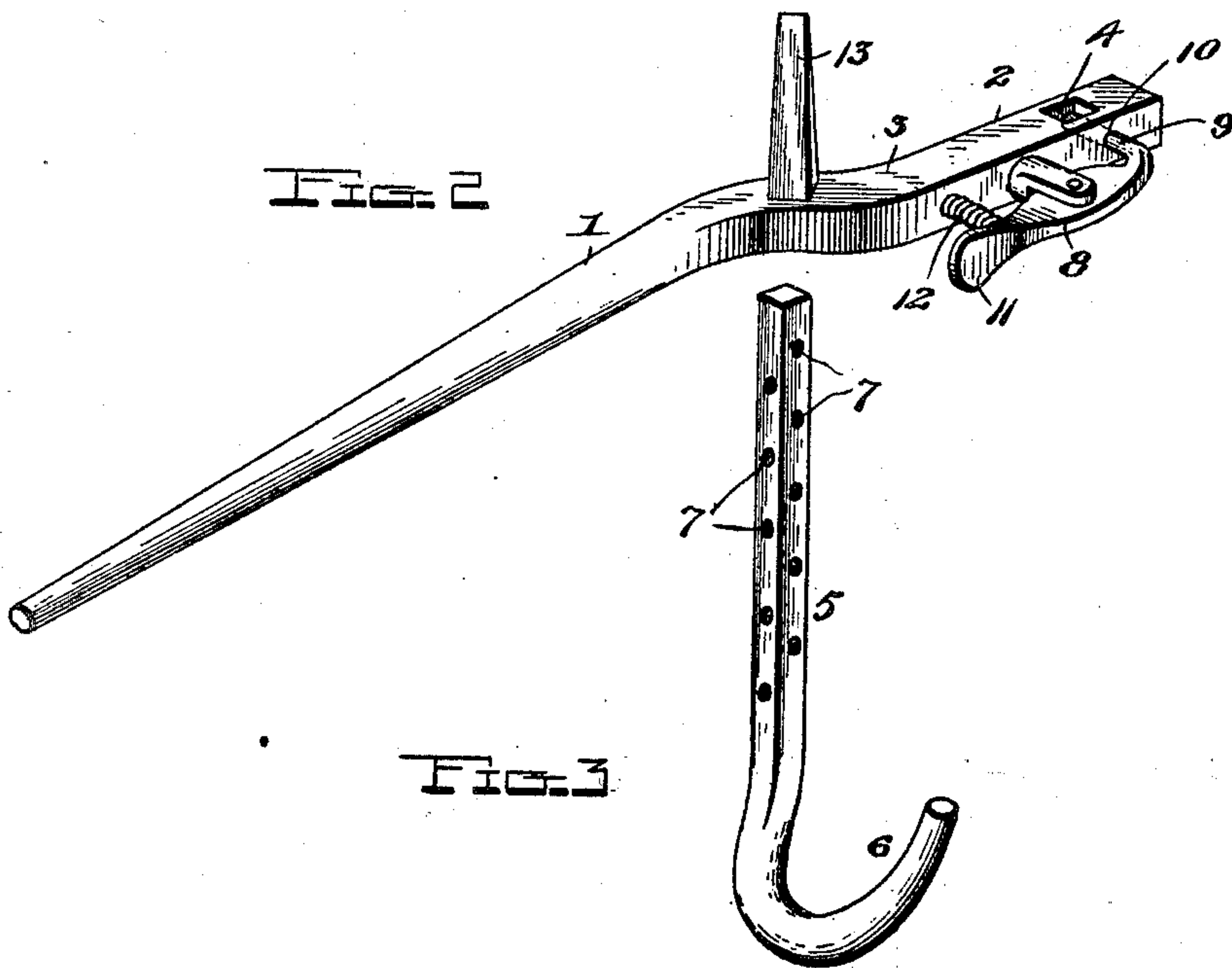
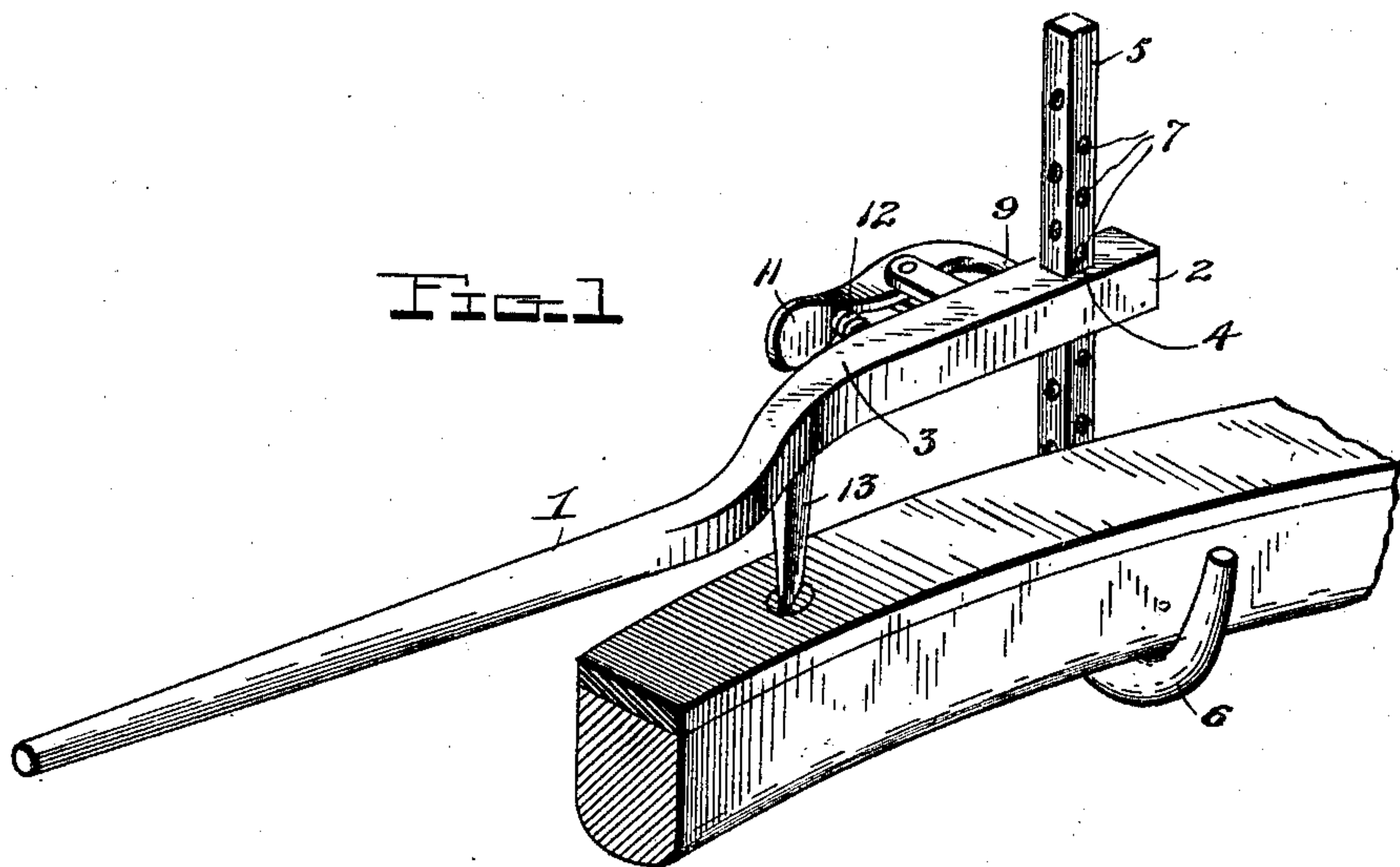


Fig. 3

Witnesses

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# UNITED STATES PATENT OFFICE.

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## BOLT-HOLDER.

SPECIFICATION forming part of Letters Patent No. 696,006, dated March 25, 1902.

Application filed November 18, 1901. Serial No. 82,686. (No model.)

*To all whom it may concern:*

Be it known that I, HIRAM C. CARTER, a citizen of the United States, residing at Groesbeck, in the county of Limestone and State of Texas, have invented certain new and useful Improvements in Bolt-Holders; and I do 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.

This invention relates to improvements in bolt-holders—that is, devices for holding the heads of bolts to prevent the bolts from turning while the nut is being applied or removed.

The object of the invention is to provide a combined bolt-holder and screw-driver which shall be simple of construction, durable in use, and effective in operation and in which the hook or engaging member is quickly and conveniently adjustable to any angle to allow the tool to be employed in various positions to engage bolts set so as not to be readily reached by an ordinary form of tool.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a perspective view illustrating the use of the device as a tire-bolt holder. Fig. 2 is a detail perspective view of the handle, and Fig. 3 is a similar view of the hooked bar.

Referring now more particularly to the drawings, the numeral 1 represents a handle-bar whose forward end 2 is offset by the formation of a curved connecting portion 3 and is provided with a transverse rectangular opening 4 for the reception of the shank of a gripping-bar 5, having a hooked outer end 6 to engage the rim of a wheel or other part carrying the bolt which is to be engaged by the bolt-holder.

The shank of the hooked bar is of rectangular form and is provided in each of its sides with a longitudinal series of seats or indentations 7, the indentations upon opposite sides being arranged in staggered relation. A pivoted catch or detent 8, having an engaging nut 9 moving in an aperture 10, communicating with said transverse opening, is provided

to engage the seats and to hold the hooked bar in adjusted position. This catch or detent has a thumb-piece 11 arranged so as to be conveniently manipulated to throw the detent out of engagement with the bar while the hand is grasping a handle 1, and a spring 12 acts upon said detent to hold it normally in locking engagement. By the described construction it will be seen that the hooked bar may not only be adjusted longitudinally to move its hooked portion toward and from the handle-bar, but that it may also be adjusted axially to set the hooked portion at different angles with relation to the bar to readily engage bolts set so as not to be readily reached by an ordinary form of tool. In adjusting the hooked bar longitudinally the catch is retracted and the bar moved in one direction or the other through the opening 4 until set to the desired position, when the catch or detent is released to engage the coinciding seat or indentation in the bar. To adjust the bar axially, the detent is retracted, the bar removed from the opening 4, and then turned as desired and inserted into the opening and locked by the release of the detent in the desired position.

The curved or offset portion of the bar carries a spur 13, which is in the form of a screw-driver blade and is adapted to be brought to bear upon the head of a bolt to hold the same from turning while the nut is being applied thereto or removed therefrom by means of a wrench or analogous tool. The formation of the offset causes the handle 1 to extend in line with the hooked portion of the hooked bar when the latter is set transversely thereto and to also enable the spur or screw-driver blade to stand at an oblique angle to the bar, so as to prevent slipping of the tool in operation.

In employing the device in holding tire-bolts, as shown in Fig. 1 of the drawings, the hooked bar is engaged with the rim of the tire and adjusted to the desired position and the spur brought to bear upon the head of the bolt, whereupon pressure is brought to bear upon the handle 1, thus causing said spur to bite against the head of the bolt and hold it firmly against turning while the nut is being applied thereto or removed therefrom. When the device is used for holding



bolts set at inconvenient positions upon a shaft, wagon-tongue, plow, or other object, the hooked bar is adjusted axially and longitudinally, as circumstances may require, to bring the hooked portion thereof into engagement with the object and to enable the spur to be brought into direct contact with the bolt-head. Upon detaching the hooked bar the spur may be employed as a screw-driver, the handle 1 being utilized to turn the same in driving or removing a screw.

The invention may be used with equally good results in removing the tire-bolts from wagons and in removing bolts from all classes of machinery where it has heretofore been found difficult to hold the head against turning while applying or removing the nut.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and advantages of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and minor details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

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

1. In a bolt-holder, the combination of a handle-bar provided with an opening, a hooked bar slidable longitudinally in said opening and also axially adjustable therein and provided with rows of seats or indentations arranged in staggered relation, and a catch or detent to engage either one of the aforesaid seats or indentations to lock the hooked bar in adjusted position, substantially as described.

2. In a bolt-holder, the combination of a handle-bar provided with means for engaging the head of the bolt and having a transverse rectangular opening, a rectangular hooked bar slidable longitudinally in said opening and also adjustable axially therein, said bar being provided in its sides or faces with rows of recesses or seats for operation upon the turning of the bar to its different positions, the seats of one row alternating with the seats of another row, and a catch or detent to engage said seats and hold said bar in adjusted position, substantially as specified.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HIRAM C. CARTER.

Witnesses:

DANIEL PARKER,  
W. G. DAVIS.