

J. T. McCANN.
BOLT HOLDER.

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1,057,255.

Patented Mar. 25, 1913.

Fig. 1.

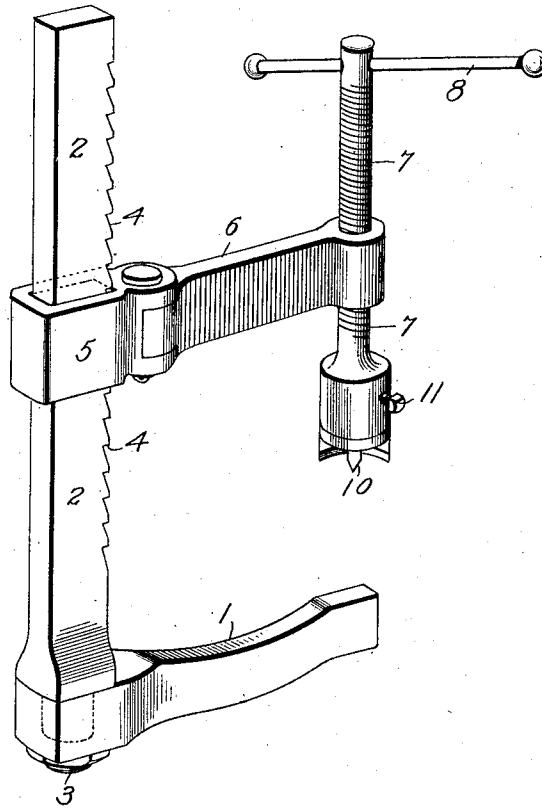


Fig. 2.

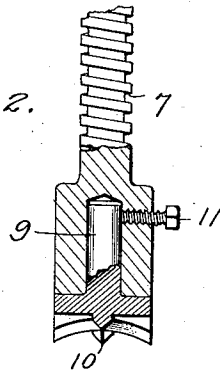
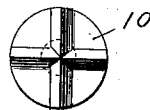


Fig. 3.



WITNESSES

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JAMES T. McCANN, OF TUOLUMNE, CALIFORNIA.

BOLT-HOLDER.

1,057,255.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES T. McCANN, a citizen of the United States, and a resident of Tuolumne, in the county of Tuolumne and State of California, have invented an Improved Bolt-Holder, of which the following is a specification.

My invention is a tool for preventing rotation of screw-bolts when nuts are being applied to them.

The same comprises a frame or stock having a rectangular form, one arm or member of the same being provided with ratchet teeth, a sleeve adapted to slide on the ratchet member, and a screw supported parallel to said member and adapted to work in the outer end of an arm which is hinged to the sleeve. Thus the screw may be adjusted on the ratchet arm toward or from the other arm, as required to adapt the tool for application to bolts in different situations, or swing laterally on the ratchet arm for the same purpose.

In the accompanying drawing Figure 1 is a perspective view of the tool. Fig. 2 is a detail section of a portion of the screw and the detachable toothed head applied thereto. Fig. 3 is a face view of said head.

The stock or frame of the tool is formed of two arms or bars 1 and 2 which are arranged at a right angle to each other and detachably connected by screw tenon and nut 3, the tenon being formed on the arm 2 and passing through a hole in the other arm 1. The arm 2 is provided with ratchet teeth 4 on the side adjacent to the arm 1.

A sleeve 5 is adapted to slide on the arm or bar 2 and to engage the shoulders of the ratchet teeth, so that it will be prevented from sliding farther outward. An arm 6 is hinged to the sleeve and a screw 7, having a turning handle 8, is supported and adapted to work in the outer end of such bar. The enlarged head of the screw is provided with an axial socket adapted to receive the tenon 9 of a gripping device 10, whose concave and toothed face is adapted to engage or bite with the conical head of a bolt. The toothed head 10 is secured by a clamp-screw 11 and thus adapted to be removed when it is desired to substitute another.

The construction of the stock or frame in two parts adapts the arm 1 to be turned on the tenon and thus adjusted at different angles to the ratchet face, and the two parts

may likewise be easily detached when it is required for packing compactly.

The tool thus constructed may be applied in various situations where screw bolts are employed and it is difficult to prevent rotation of the same when nuts are being screwed thereon. For example, if the tool be applied to bolts or fish-plates connecting the ends of railway rails, the outer or free end of the arm 1 would be applied against the face of one fish-plate and the screw head 10 would be adjusted to bear upon the bolt head on the face of the opposite fish-plate. It will be seen that the ratchet 4 would permit the adjustment of the sleeve, and thereby the bolt, at different distances from the adjacent fish-plate, and that the sleeve would lock with the ratchet so soon as the screw should be adjusted to bear upon the bolt head. It will be further seen that the hinge connection between the sleeve 5 and the screw-carrying bar 6 permits such bar to be adjusted out of parallelism with the frame arm 1 which is often of great advantage in applying the tool to bolts in certain situations. In fact, it often happens that in many cases, where repair work is required, the tool is particularly advantageous in view of the adaptation of the arm 6 for lateral adjustment. In other words, in using the device, experience has demonstrated that the stock or bar 2 is often in the way of other bars so that the operation of the device is difficult or impracticable; but, by hinging arm 1 to the sleeve which is slidable on the ratchet bar, the screw may be swung laterally or to one side so that adjustment and operation of the device become practicable.

What I claim is:—

The improved bolt-holder, comprising a rigid frame formed with two arms arranged at a right-angle to each other and one of them provided with ratchet teeth on its inner side, a sleeve adapted to slide on said ratchet bar and engage the teeth thereof, and an arm hinged to the sleeve and extending in a plane parallel to one of the arms of the frame, a screw working in the eye frame at the outer extremity of said arm and having a head adapted to engage a bolt-head as described.

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Witnesses:

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