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PATENTED JULY 31, 1906.

J. MILLS.

COMBINED MONKEY WRENCH, PIPE WRENCH, AND BOLT HOLDER.

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FIG. 1

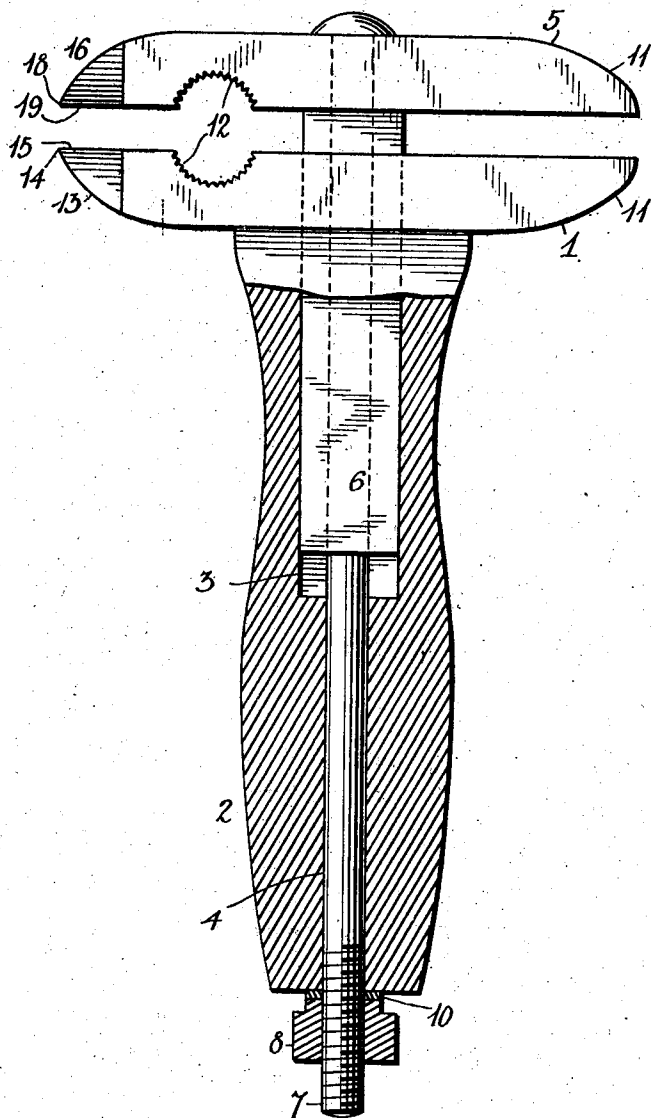
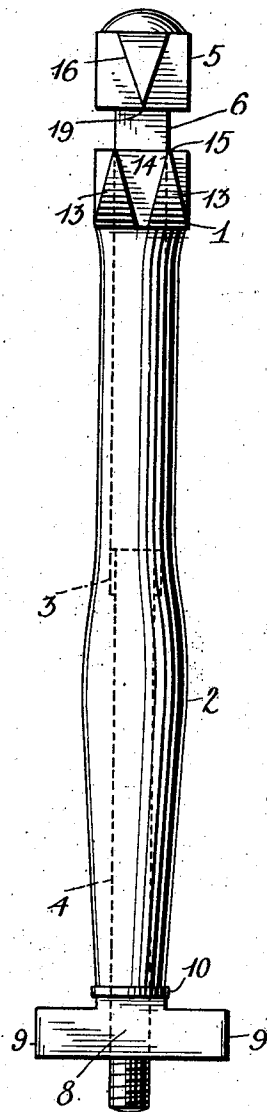


FIG. 2



Witnesses

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JARED MILLS, OF VILLISCA, IOWA.

COMBINED MONKEY-WRENCH, PIPE-WRENCH, AND BOLT-HOLDER.

No. 827,254.

Specification of Letters Patent.

Patented July 31, 1906.

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To all whom it may concern:

Be it known that I, JARED MILLS, a citizen of the United States, residing at Villisca, in the county of Montgomery and State of Iowa, have invented certain new and useful Improvements in a Combined Monkey-Wrench, Pipe-Wrench, and Bolt-Holder; 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.

My invention is an improved combined monkey-wrench, pipe-wrench, and bolt-holder; and it consists in the construction, combination, and arrangement of devices herein-after described and claimed.

In the accompanying drawings, Figure 1 is partly an elevation and partly a sectional view of my improved monkey-wrench, pipe-wrench, and bolt-holder; and Fig. 2 is an elevation at right angles to Fig. 1 and showing the bolt-holding points.

The fixed jaw 1 is provided with a handle 2, which is provided at the end having the jaw with a socket 3 of oblong form in cross-section. Said handle also has a longitudinal bore 4, which extends therethrough and communicates with the socket 3. A removable jaw 5 has a shank 6 adapted to enter the socket 3 of the handle 2, said shank and socket coacting to prevent the jaw 5 from turning. An adjustable rod 7, which is here shown as a bolt, extends longitudinally through the stem 6, and also through the jaw 5, and projects from the stem 6 a sufficient distance to pass through the bore 4 and to project beyond the outer end of the handle 2. Said projecting end of the adjustable rod or bolt is secured thereto and is engaged by a nut 8, which is provided with oppositely-projecting finger-pieces 9, whereby it may be readily turned. A washer 10 on the adjustable rod or bolt bears between the outer end of the handle 2 and the inner side of the nut. The ends 11 of the jaws 1 5 are for use for the purposes of an ordinary monkey-wrench. The said jaws are provided near their opposite ends on their opposing sides with oppositely-curved recesses 12, which are milled or roughened on their opposing surfaces to enable the jaws to grab a pipe or other round object, the said recess adapting the tool for use as a pipe-wrench.

It will be understood that the jaws may be moved toward and from each other to enable them to be clamped upon or released from an

object by appropriately turning the nut 8. The jaw 1 is provided at one end with a pair of projecting lugs 13, which are spaced apart, are tapered outwardly on their outer sides to points 14, and are wedge-shaped in cross-section, so that they are provided with edges 15 on the sides corresponding with the inner side of the jaw 1. The jaw 5 is provided at the corresponding end with a lug 16, which is disposed opposite the space between the lugs 13, is beveled on its outer side, as at 17, to form a point 18, and is also beveled on the opposite sides to form a sharp edge 19 on the inner side thereof. The ends of the jaws, with the lugs 13 16, are employed to enable the head of a bolt embedded in a wooden object to be gripped in order to hold said bolt from turning, so that a nut may be taken from or applied to a bolt. In using the tool for this purpose the jaws will be opened to the required extent and the points or lugs 13 16 driven into the wood on opposite sides of the bolt-head, and the nut 8 will then be turned to move the jaws toward each other and grip said lugs on opposite sides of the bolt-head in order to secure the bolt from turning. It will be understood that the sharpened inner edges of the said lugs will greatly facilitate their frictional engagement with the bolt-head and will enable them to penetrate the bolt to a considerable extent, so as to enable them to grip the same between the jaws. It will also be understood that by having the outer sides of the lugs 13 beveled to a point the said jaws are adapted to be readily driven into the wood and enabled to readily grip the head of the bolt.

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

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined by the appended claims.

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

1. A tool of the class described having a pair of jaws, one movable toward and from the other, means to so adjust the jaws, and lugs on one end of said jaws adapted to be

driven into yielding material and provided at their respective edges, corresponding with the inner sides of said jaws, with edges to engage the bolt-head, substantially as described.

2. The herein-described combined monkey-wrench, pipe-wrench and bolt-holder comprising the jaw 1 having the handle 2, the jaw 5 having the stem to operate in the socket in said handle, and means to adjust said jaws toward and from each other, the said jaws being provided in their opposing sides with recesses to fit and engage a pipe or other round object and being respectively provided at one end with lugs 13 and 16, the said lugs being oppositely beveled to provide sharp-

ened edges on the sides corresponding with the inner sides of said jaws and being beveled on their outer sides to form points to facilitate their being driven into yielding material, the lugs 13 of the jaw 1 being spaced apart, and the lug 16 of the jaw 5 being disposed opposite the center space between said lugs 13, substantially as described.

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

JARED MILLS.

Witnesses:

CARL NELSON,
S. H. COLEMAN.