

G. YUNCKER.
ATTACHMENT FOR WRENCHES.
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1,294,857.

Patented Feb. 18, 1919.

Fig. 1.

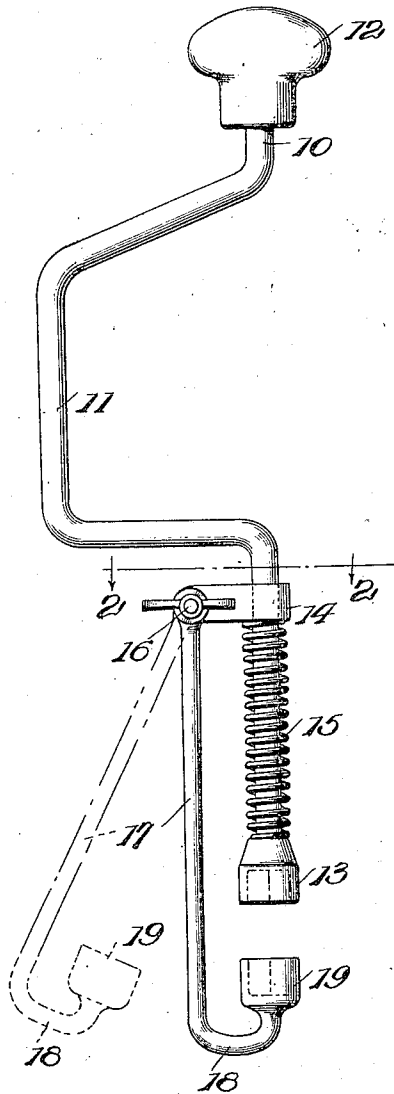


Fig. 2.

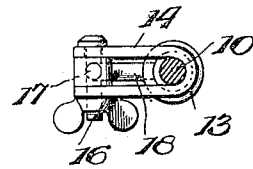
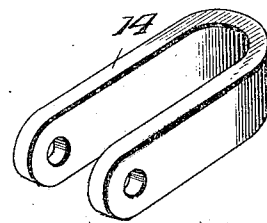


Fig. 3.



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ATTACHMENT FOR WRENCHES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CLARENCE F. YUNCKER, a citizen of the United States, residing at Dodge City, in the county of Ford and State of Kansas, have invented certain new and useful Improvements in Attachments for Wrenches, of which the following is a specification.

This invention relates to improvements in attachments for wrenches to enable a bolt to be held from turning while the nut is being removed or attached, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

Another object of the invention is to provide a device of this character which may be readily applied without material structural change to wrenches of various forms, more particularly to socket wrenches.

With these and other objects in view, the invention consists in certain novel features of construction, as hereinafter shown and described and then specifically pointed out in the claims; and in the drawings illustrative of the preferred embodiment of the invention—

Figure 1 is a side elevation of the improved device,

Fig. 2 is a section on the line 2—2 of Fig. 1,

Fig. 3 is an enlarged detached view of the slidable clamp device.

The device is designed to enable nuts to be applied to or removed from bolts, and to hold the bolt from rotation during the removal or application of the nut.

The improved wrench is designed more particularly to hold bolts from turning where the head of the bolt or the nut is located in an inaccessible position to apply an ordinary holding implement, for instance in many portions of automobiles and the like, and for the purpose of illustration the attachment is shown applied to a conventional socket wrench in which 10 represents the stock, 11 the turning handle, 12 the breast head and 13 the nut or bolt head engaging socket. The improved attachment comprises a substantially U-shaped clamp device 14 adapted to be adjustably engaged with the stock 10 and spaced a convenient distance from the socket 13. A spring 15 surrounds the stock between the socket 13 and the clamp 14. The clamp 14 is extended at one side and divided to receive

a pivot bolt 16 from which an arm 17 is swingingly suspended. Near its free end the arm 17 is bent laterally as shown at 18 and terminates in a nut or bolt head receiving socket 19 corresponding to and coacting with the socket 13. The spring 15 operates to maintain the confronting edges of the sockets 13—19 in close contact, or to move the socket 19 toward the socket 13. When the improved device is to be used the clamp 14 is manually forced away from the socket 13 against the resistance of the spring 15 and the socket 13 disposed over the nut to be removed and the socket 19 disposed over the head of the bolt from which the nut is to be removed. The socket 19 thus holds the head of the bolt from rotation while rotary movement is applied to the stock 10 by means of the crank handle 11. The bolt is thus held from rotary movement while the nut is being detached and by the same implement, and by one operation.

The improved implement is simple in construction, can be inexpensively manufactured and adapted without material structural change to socket wrenches of various forms and sizes. By turning the arm 17 upon its pivot 16 into the position shown by dotted lines in Fig. 1, the wrench may be employed in the ordinary manner, as the presence of the attachment does not interfere with the ordinary uses of the wrench.

Of course it will be understood that the socket 19 may be disposed over the nut and the socket 13 engaged with the head of the bolt, if the location of the bolt and its nut requires such arrangement of the parts.

Having thus described the invention, what is claimed as new is:

1. A bolt holding attachment for socket wrenches comprising a substantially U-shaped clamp having the arms thereof provided with openings, a threaded pin extending through said openings, an arm mounted for laterally swinging movement on said pin and having its free end provided with a socket, a spring adapted to bear against the clamp for holding said socket yieldably in alignment with the socket portion of the wrench, and a clamping screw engaging the threaded end of the pin and bearing against the adjacent arm of the clamp.

2. The combination with a brace including a shank having a socket, of a substantially

U-shaped clamp slidably mounted on the shank of the brace, an arm pivotally mounted for lateral movement between the arms of the clamp and provided with a socket normally extending beneath the socket of the shank, a spring encircling the shank of the brace and bearing against the socket of said brace and the clamp and operating to maintain said sockets normally in alinement with each other, and means for compressing the arms of the clamp to hold the socket engaging arm in inoperative position.

3. The combination with a tool including

a socket, of an arm pivotally mounted for longitudinal and lateral movement with respect to the tool and provided with a socket adapted to register with the socket of the tool, and a spring carried by the tool and bearing against the arm for normally drawing the sockets toward each other, said socket carrying arm being movable laterally to inoperative position at one side of the tool.

In testimony whereof I affix my signature.

CLARENCE F. YUNCKER. [L. S.]

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."