Oct. 29, 1929. A. BEDUORZ 1,733,642

WRENCH ATTACHMENT

Filed July 3, 1928

Fig. 1.

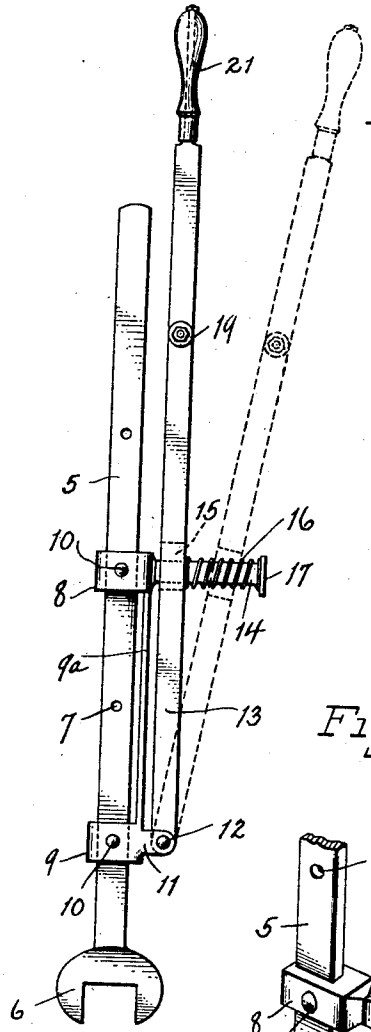


Fig. 2.

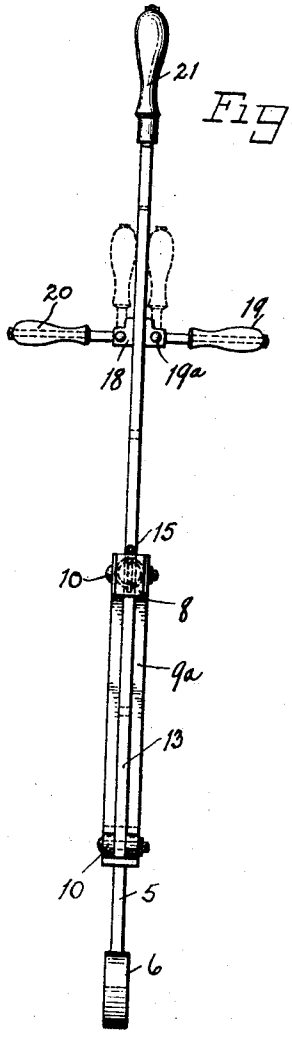
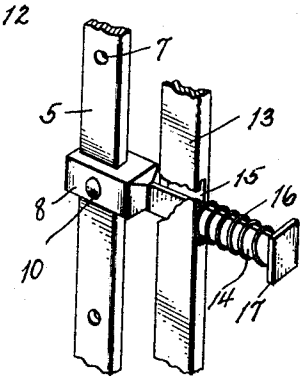


Fig. 3.



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UNITED STATES PATENT OFFICE

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WRENCH ATTACHMENT

Application filed July 3, 1928. Serial No. 290,261.

This invention relates to improvements in tool handles and more particularly bolt wrenches and the like such as employed on railroad track work.

One of the objects of my invention is to provide in a tool handle, such as a wrench, provision for manipulating the tool by two operators as when tightening or loosening a bolt.

Another object of my invention is to provide a tool handle attachment permitting an adjustable leverage for a tool or implement including provision whereby the said tool and its attachment may be operated by two operators.

To enable others skilled in the art to more fully comprehend the underlying features of my invention, reference is had to the accompanying drawing forming a part of this specification in which

Fig. 1 is a side view.

Fig. 2 is a front view.

Fig. 3 is a fragmentary detail showing a collar and its relation to the handle and attachment.

Referring now to the drawings, 5 designates an elongated tool shank having a bolt engaging head 6 of any design such as employed for tightening and loosening bolts on railroad tracks. The shank is provided with a plurality of apertures 7 for adjustably mounting an attachment consisting of a top collar 8 and a bottom collar 9 joined by a rear, flat bar 9^a and connected by removable pins 10 passing through the said apertures.

The bottom collar 9 is formed with rearwardly directed, parallel ears 11 for supporting a pivot 12 on the lower end of an elongated lever 13. The upper collar is provided with a rear, preferably flat extension bar 14 which is adapted to slidably pass through a recess 15 through the lever 13. The bar 14 is equipped with a coil spring 16 bearing against the lever and an outer head 17 on the end of said bar. The head is preferably removable so that the bar may be passed through the recess 15 and permit the coil spring to be positioned as shown.

The upper portion of the lever 13 is further provided with a bracket 18 to which is pivotally attached as at 19^a, a pair of side handles 19, 20. When not in use, the said handles 19, 20 may be moved to an inoperative or vertical position as shown in dotted lines by Fig. 2. The upper end of the lever is equipped with a single handle 21 of sufficient length to be gripped by both operators when the tool is being used.

From the above construction, it will be seen that as each operator grips the top handle 21 and a bottom or side handle, the shank of the tool may be manipulated, the coil spring tending to return the lever from the dotted line to the full line position as shown by Fig. 1. It will be understood that in tightening or removing bolts on railroad track work, a long leverage is necessary and as a rule two men are required to manipulate the tool. The bolt engaging head 6 must be released or moved back on the nut with each operation of the tool. Under ordinary conditions the shank 5 and the lever 13 move in parallelism until considerable power is exerted whereupon the pivoted lever bears against the resistance of the spring so that this lever is somewhat inclined at an angle to the shank. The spring causes the lever to return to its parallel position, each time the shank is moved to the vertical or full line position shown in Fig. 1. This permits the work to be done in a more efficient manner, is much easier for the workman and provides a tool whereby the workmen may function in unison.

While I have shown and described my invention with some degree of particularity, I realize that various changes, modifications and alterations in the details shown may be resorted to. I therefore do not wish to be limited or restricted to the precise and exact details shown, but reserve the right to make such changes as may fairly fall within the scope of the subject matter being claimed.

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

1. In combination with a tool handle having a shank, spaced collars connected to said shank, a lever pivotally connected to the lower collar, a rearwardly extending flat bar

formed with the top collar extending through a recess in said lever, a coil spring on said flat bar, side handles connected to said lever and a handle on the upper end of said lever.

2. In combination with a tool having a shank, a top collar and a bottom collar adjustably connected to said shank, an elongated lever pivotally mounted on the rear of the bottom collar, a bar formed with the top collar, said bar being movable through a recess in said lever, a coil spring on said bar against which said lever is operated when the tool shank is manipulated and a handle for said lever.

3. In combination with a tool having a shank, interconnected top and bottom collars adapted to be adjustably fastened to said shank, an elongated lever pivoted to the rear of said bottom collar, a rearwardly extending flat bar integral with the top collar passing through a recess in the said lever, a coil spring on said flat bar, side handles connected to the lever and a top handle on the end of said lever.

4. In combination with a tool handle having a shank, interconnected top and bottom collars adapted to be adjustably fastened to said shank, an elongated lever pivoted to ears on the bottom collar, a rearwardly extending flat bar formed with the top collar adapted to pass through a recess in the lever, a coil spring on said flat bar, a head on said bar engaging one end of the spring when the lever is manipulated, side handles attached to said lever and a handle on the upper end of said lever.

In testimony whereof I affix my signature.

AUGUST BEDUORZ.