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M. MORGAN

EXTENSION HANDLE FOR WRENCHES

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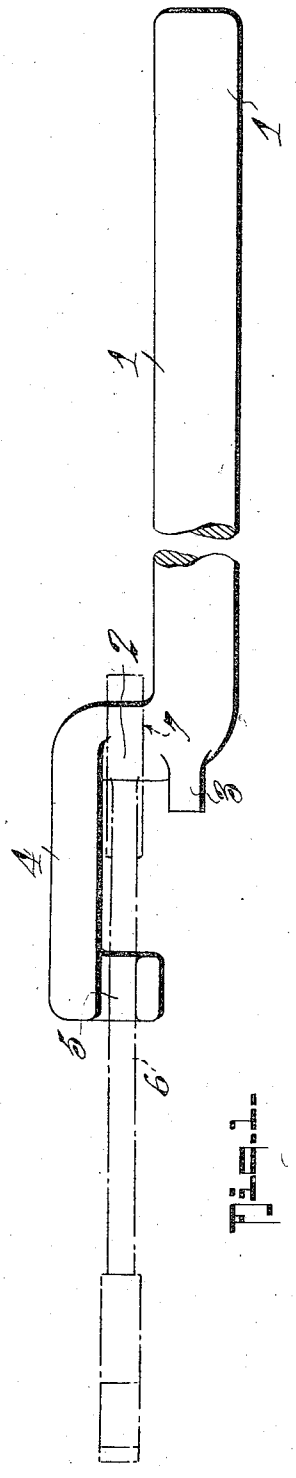


Fig. 1.

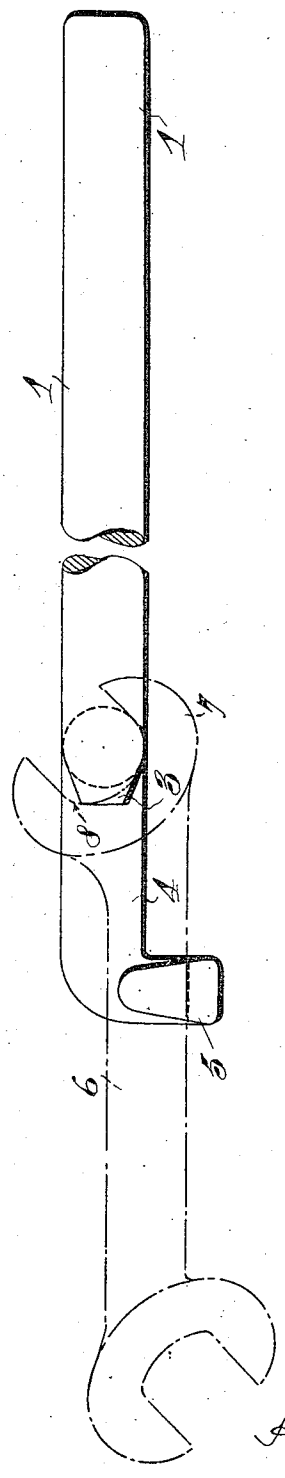


Fig. 2.

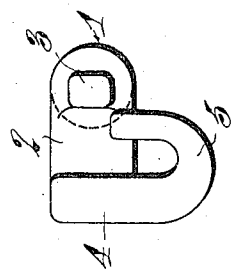


Fig. 3.

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UNITED STATES PATENT OFFICE.

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EXTENSION HANDLE FOR WRENCHES.

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My invention comprises certain new and useful improvements in extension handles for double ended wrenches and it primarily has for its objects to provide a handle which will hold the wrench positively against slipping, a handle that is so simple that there is nothing to get out of order (no springs, spring catches, screws, or other delicate fastening devices), a handle which is self-adjusting, one which can be manufactured at a nominal cost, and one which can be used with either straight or S wrenches.

More specifically the invention resides in those novel features of construction, combination and arrangement of parts, all of which will be first fully described, then be pointed out in the appended claims, reference being had to the accompanying drawing, in which:

Figure 1 is a plan view of the invention, a wrench being shown in place in dotted lines.

Figure 2 is a side elevation of the structure shown in Figure 1.

Figure 3 is an end elevation of the extension handle per se.

In the drawing, in which like numerals of reference indicate like parts in all the figures, 1 represents the handle proper which can be made in any desired length; the intention is to make the implement in sets of lengths of twenty-four inches, sixteen inches, ten inches and eight inches respectively. The implement also has a forwardly extended flat off-set portion 4 joined to the handle proper by a short lateral portion 2, which portion 2 constitutes a seat for the jaws of the wrench, a forwardly projecting lug 3 being provided to retain the wrench against lateral slipping off the portion 2 toward the side opposite the off-set portion 4.

5 designates the U-end or stirrup in which the shank 6 of the wrench is received, the head of the wrench having a portion 7 to engage the lateral portion 2 toward the rear to prevent slippage of the wrench forward, while slippage of the wrench backwardly is prevented by the engagement of the portion 2 with the inner wall of the jaws 8 of the wrench, as best indicated in Figure 2 of the drawing. It will be noted that the U-shaped stirrup is extended below the plane of the handle and the forward extension thereof, whereby when the wrench is placed in position it will lie with its axis in substantially the same direction as the axis of the handle proper and flatwise against the flat offset portion of the handle proper.

In use one end of the wrench receives, in its mouth, the portion 2 of the extension handle and the shank of the wrench rests in the stirrup 5. The construction of the implement is such that it will hold either a flat double ended wrench or an S double ended wrench with equal facility.

I am aware that prior to my invention extension handles for wrenches have been provided, but all those which have come to my attention have involved relatively expensive constructions or the use of spring latches or devices of special character for holding the wrench in place on the handle, thus adding to the cost of production of the article and in some instances limiting its utility. I therefore do not claim broadly an extension handle for double ended wrenches but what I do claim and desire to be secured in by Letters Patent is:

1. An extension handle for wrenches comprising a handle proper, there being a flat laterally off-set portion extending forwardly of and connected with the handle proper by a short lateral portion, said forwardly extending flat off-set portion having its axis parallel with the axis of the handle, the front of said extension having a laterally projecting U-shaped stirrup to receive the shank of the wrench whose jaws receive said lateral portion, said U-shaped stirrup being extended below the plane of the handle and forward extension thereof and all being arranged whereby when the wrench is placed in position it will lie with its axis in substantially the same direction as the axis of the handle proper and flatwise against said flat off-set portion, substantially as shown and described.

2. An extension handle for wrenches comprising a handle proper, there being a flat laterally off-set portion extending forwardly of and connected with the handle proper by a short lateral portion, said forwardly extending flat offset portion having its axis parallel with the axis of the handle, the front of said extension having a laterally projecting U-shaped stirrup to receive the shank of the wrench whose jaws receive said lateral portion, said U-shaped stirrup being extended below the plane of the handle and forward extension thereof, all being arranged whereby when the wrench is placed

in position it will lie with its axis in substantially the same direction as the axis of the handle proper and flatwise against said flat off-set portion, and a forwardly projecting lug extending from the handle proper paralleling said flat off-set portion, substantially as shown and described.

3. A tool for applying additional leverage to a wrench comprising a handle member, a lateral projection substantially at right angles to said handle member at the end thereof, a forward extension at right angles to said lateral projection disposed in a plane substantially parallel to the plane of said handle member, and a hook on the end of said forward extension adapted to receive the body of said wrench and to retain the same in a plane substantially parallel with the side of said handle member, said lateral projection being adapted to engage the jaws of the rearward extremity of said wrench for retaining said wrench in a fixed position relative to said tool while employing the forward jaws of said wrench in tightening or loosening a nut.

4. A handle extension for wrenches comprising an integral bar disposed laterally intermediate its ends substantially at right angles to the longitudinal axis thereof for providing a stop for engaging the rearward jaw of a wrench, the end portion of said laterally disposed portion being bent forwardly in a plane substantially parallel to the plane of the rearward portion of said handle, and a hook on the forward extremity of said handle adapted to engage the shank of said wrench intermediate the ends thereof for preventing lateral movement of the rearward portion of said wrench in one direction, said rearward portion of said wrench being restrained from lateral movement in the other direction by engagement of the tip of one side of said rearward jaw with the side of the rearward portion of said handle, and a hook on the forward extremity of said handle adapted to engage the sides and one edge of the shank of said wrench intermediate its ends.

MERLE MORGAN.