

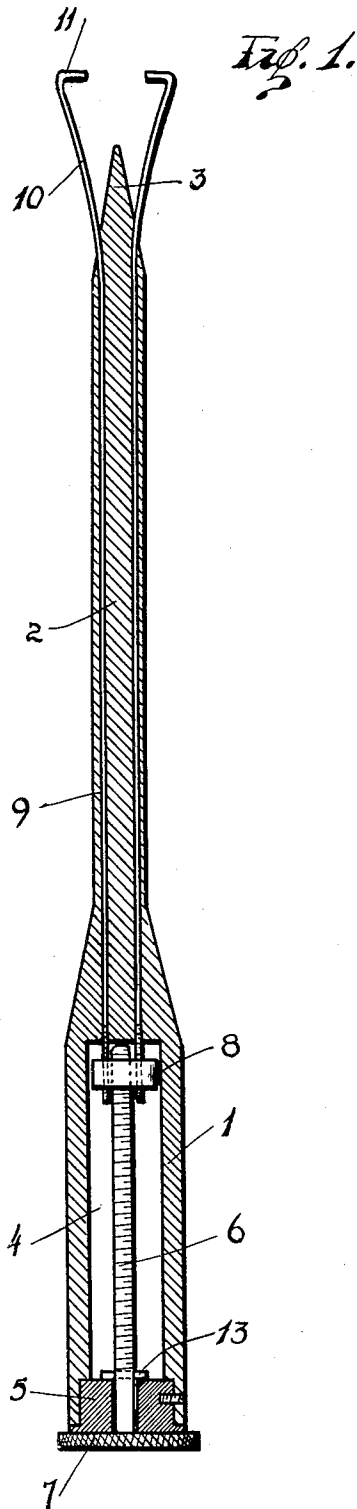
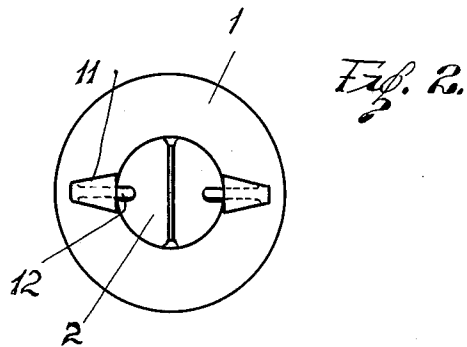
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SCREW DRIVER

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SCREW DRIVER

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2 Claims. (Cl. 145—52)

This is a new application filed in place of my abandoned application, Ser. No. 502,638, filed December 16, 1930.

This invention relates to a novel screw driver with means thereon for gripping the screw or bolt whereby the screw is held on the end of the screw driver and can therefore be readily screwed into position.

An object of my invention is to provide a novel means whereby the screw or bolt is gripped adjacent to the head, said gripping means being manually operable.

Another object is to provide a screw driver of the character stated which is simple in construction and effective in operation.

Other objects, advantages and features of invention may appear from the accompanying drawing, the subjoined detailed description, and the appended claims.

In the drawing

Figure 1 is a longitudinal, sectional view of my screw driver.

Figure 2 is an enlarged plan view of the same.

Referring more particularly to the drawing, the numeral 1 indicates a handle of the screw driver, and 2 indicates the shank which may be either integral with the handle or the handle may be attached thereto, as desired. The usual screw-engaging blade 3 is formed on the end of the shank 2.

A bore 4 extends longitudinally in the handle 1, and the lower end of said bore is closed by a cap 5 which is non-removably held in the handle, either by threading the cap into the handle, or by means of a set screw, or the like. A threaded shaft 6 extends thru the cap 5 into the bore 4. A head 7 is formed on, or is secured to the lower end of the shaft 6 for the purpose of rotating said shaft, as will be further described. A rider 8 is provided on the shaft 6, and the shaft screws into the rider so that said rider is moved up or down in the bore 4 as the shaft is rotated.

A pair of rods 9—9 is threaded into the rider 8 and extends upwardly thru the shank 2 and protrudes thru the top of the shank. The rods 9—9 are bent outwardly at the top, as shown at

10, and the rods are preferably made of a spring steel so that the upper end of the rods will always spread outwardly, as shown in Fig. 1, when the rods are moved upwardly by the rider 8. The rods 9—9 fit in bores or grooves in the shank 80 which communicate with the bore 4 at the bottom. At the upper end, the rods 9—9 are each provided with an inwardly extending finger 11 which may be integrally formed with the rod, or may be suitably attached thereto. These fingers are each provided with an arcuate recess 12 on the inner face thereof for the purpose of engaging the screw or bolt.

To prevent the shaft 6 from moving outwardly, a shoulder or pin 13 is provided which bears 70 against the cap 5 on the inside thereof, thereby holding the shaft against longitudinal movement. The threads on the shaft 6 are coarse so that the rider 8 will be rapidly moved back and forth as the head 7 is rotated. Thus, the screw 75 can be quickly grasped or released, as desired, by the workman. The head 7 being at the end of the handle, is readily accessible and can be easily manipulated to grasp or release the screw. The outward curvature of the rods 9 at the top, 80 also automatically springs the fingers 11 away from the screw or bolt as the rods are pushed upwardly.

Having described my invention, I claim:

1. A screw driver comprising a handle and a 85 shank, a threaded shaft extending into the handle, manual means to rotate said shaft, a rider on the shaft, a pair of rods secured to the rider, said rods extending upwardly thru the shank, and fingers on the upper ends of the rods.

2. A screw driver comprising a handle and a shank, said handle having a bore therein, a cap closing the lower end of the bore, a threaded shaft extending thru the cap into the bore, a head on the shaft whereby it is rotated, a rider 95 on the shaft in the bore, a pair of rods secured to the rider, said rods extending upwardly thru the shank and protruding from the top thereof, and inwardly extending fingers on the upper end of the rods.

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