

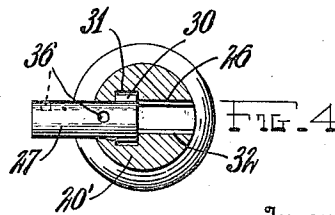
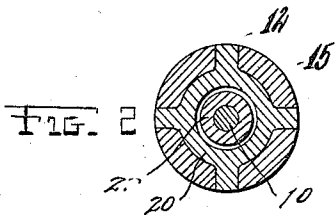
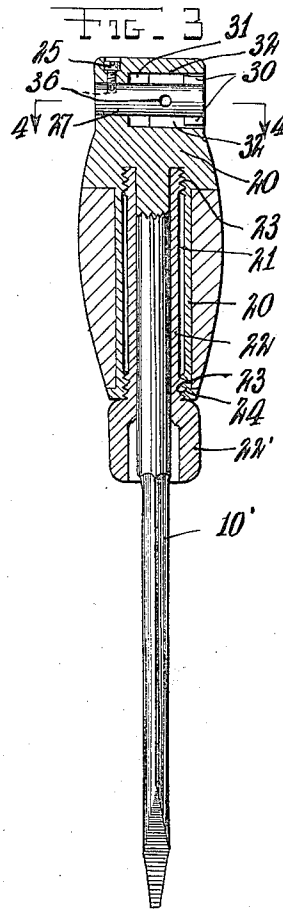
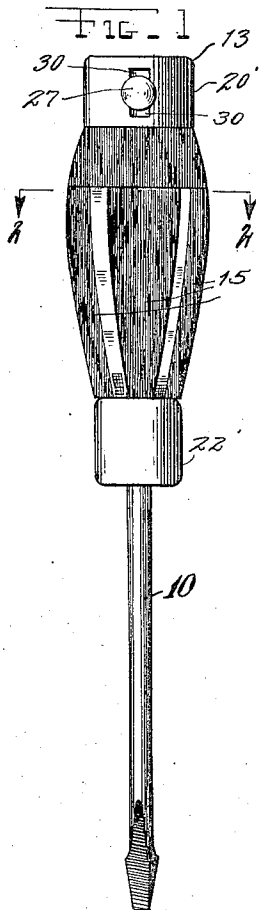
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F. ZYGMUNT

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TOOL HANDLE

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UNITED STATES PATENT OFFICE.

FRANK ZYGMUNT, OF PLANTSVILLE, CONNECTICUT.

TOOL HANDLE.

Application filed October 4, 1922. Serial No. 592,275.

To all whom it may concern:

Be it known that I, FRANK ZYGMUNT, a citizen of the United States, residing at Plantsville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Tool Handles, of which the following is a specification.

This invention relates generally to mechanics' tools, having more particular reference to a tool designed for heavy work, the invention relating to the construction of the handles and having for an object the provision of handle adapted to stand unusual strains, a further development of the invention relating to the utilizing of the handle as a hammer.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawings is a side view showing my invention applied to a screw driver.

Fig. 2 is a transverse sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a central longitudinal sectional view taken at right angles to Fig. 1.

Fig. 4 is a transverse sectional view taken on the line 4—4 of Fig. 3.

In the construction shown in the drawings I have illustrated my invention applied to a screw driver comprising a shank 10 flattened at its end, to engage the slots in the heads of the screws. This shank 10 is rigidly united with the metallic element of the handle of the screw driver. The shank 10 extends freely through the main barrel-like body 20 of the handle and is rigidly connected to the solid outer end portion 20' of the latter. The body 20 of the handle is formed with a number of radial ribs 12. In the spaces between the said ribs are set wooden filler blocks 15 which are secured in place by suitable pins, these blocks being formed to give a circular cross sectional form to the handle, as shown in Fig. 2.

The recess 21 in the handle which accommodates the shank 10 is of greater diameter than the latter and in the space thus left is a sleeve 22 which fits snugly on the shank. This sleeve 22 is exteriorly screw threaded adjacent each end as shown at 23, while the

recess 21 in the handle has complementary interior screw threads 24 at its lower end.

The end element 20' of the handle is formed with a transverse aperture 26 in which is received a hammer head 27 which occupies the position shown in Fig. 3, lying within the confines of the part 20', or is projected outwardly to the position shown in Fig. 4 when the device is to be used as a hammer.

To form a solid abutment for the hammer head, when in the position shown in Fig. 4, it is provided on its rear end with integral arcuate lugs 30 which engage in recesses 31 projected laterally from the aperture 26, the top and bottom walls of the aperture being grooved as at 32 accommodate these lugs 30 when the hammer head 27 occupies the position shown in Fig. 3. As will be understood, the grooves 32 are circumferentially offset from the recesses 31, a quarter turn of the hammer 27 moving it from position with the lugs 30 registering with the grooves 32 to position with the lugs engaged in the recesses 31.

To lock the hammer head 27 against rotation I provide a screw 25 threaded into the end element and adapted to engage in either one of a pair of sockets 36 in the hammer head. When the device is to be used as a hammer the hammer head 27 is projected to the position shown in Fig. 4, the sleeve 22 is pulled outwardly, and the top threads 23 thereof engaged with the interior threads 24 of the handle. The sleeve 22 may have an enlargement 22' on its lower end to facilitate gripping thereof.

Having thus described my invention what I claim as new and desire to protect by Letters Patent of the United States is as follows:—

1. A tool of the type specified comprising an elongated handle, a hammer head slidable in one end of said handle transversely to the latter, said hammer head being adapted to be confined entirely within the handle when not in use and to be projected partially from the handle for use, and integral lugs on said hammer head adapted to engage abutment shoulders on said handle to hold the hammer head projected.

2. A tool of the type specified comprising an elongated handle, a hammer head of circular cross section slidable in one end of said handle transversely to the latter, said hammer head having a pair of lugs project-

- ing from opposite sides thereof, said lugs being adapted to engage behind shoulders in the handle to hold the hammer head partially projected from the latter for use, said lugs being adapted to be released from said shoulders, to permit of the hammer head being withdrawn entirely within the handle, by a partial turning movement of the hammer head.
3. A tool of the type specified comprising an elongated handle, a hammer head of circular cross section slidable in one end of said handle transversely to the latter, said hammer head having a pair of lugs projecting from opposite sides thereof, said lugs being adapted to engage behind shoulders in the handle to hold the hammer head partially projected from the latter for use, said lugs being adapted to be released from said shoulders, to permit of the hammer head being withdrawn entirely within the handle, by a partial turning movement of the hammer head, said hammer head being formed with a pair of sockets spaced therealong, and a screw in said handle adapted to engage in either of said sockets to respectively hold the hammer head against turning movement when projected for use, or against outward sliding movement when not in use.
- In testimony whereof I have affixed my signature.
- FRANK ZYGMUNT.