March 10, 1925. 1,529,528

H. J. WOHEAD

SCREW DRIVER

Filed May 27, 1924

Fig. 1.

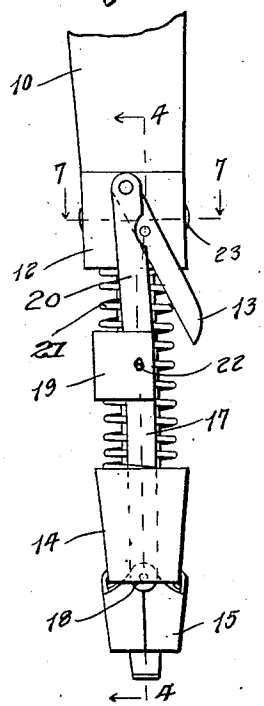


Fig. 7.

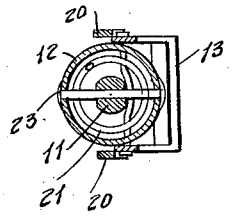


Fig. 2.

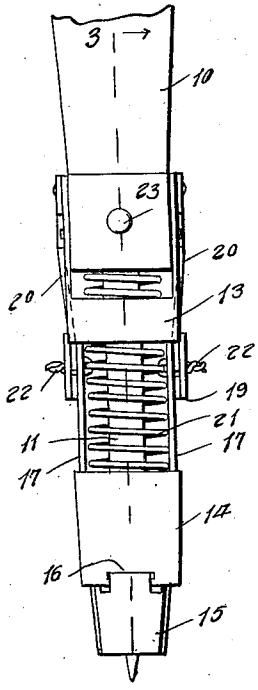


Fig. 3.

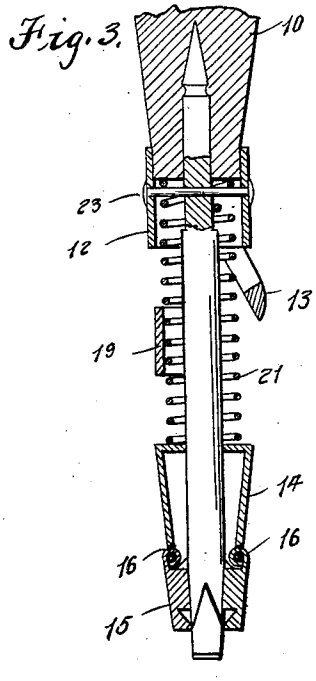


Fig. 4.

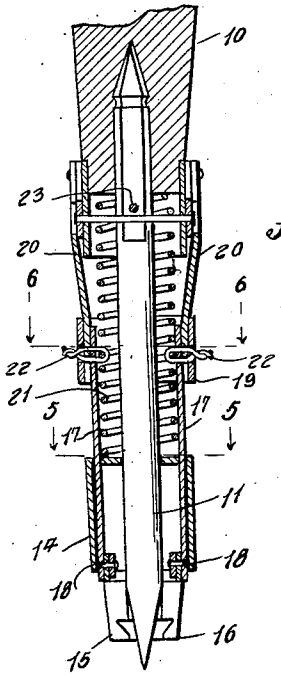


Fig. 5.

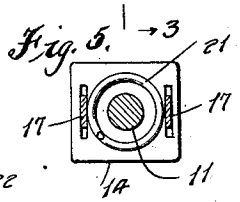
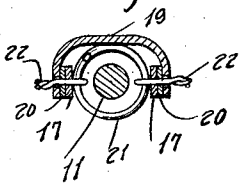


Fig. 6.



Inventor

H. J. Wohead.

By

Attorney

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UNITED STATES PATENT OFFICE.

HENRY J. WOHEAD, OF NORTH FORT WORTH, TEXAS.

SCREW DRIVER.

Application filed May 27, 1924. Serial No. 716,230.

To all whom it may concern:

Be it known that I, HENRY J. WOHEAD, a citizen of the United States, residing at North Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Screw Drivers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to tools and specifically to a screw driver and has for its object to combine therewith means for holding a screw while cutting the same thereby being of special advantage when placing a screw in a place not readily accessible.

Other objects and advantages will be apparent and suggest themselves as the nature of the invention is understood.

While the drawing illustrates an embodiment of the invention it is to be understood that in adapting the same to meet different conditions and requirements, various changes in the form, proportion and minor details of construction may be resorted to without departing from the spirit of the invention.

Referring to the accompanying drawing forming a part of the application:

Figure 1 is a side view of a screw driver provided with screw holding means embodying the invention;

Figure 2 is a front view of the screw driver;

Figure 3 is a sectional view on the line 3—3 of Figure 2;

Figure 4 is a sectional view on the line 4—4 of Figure 1;

Figure 5 is a horizontal section on the line 5—5 of Figure 4;

Figure 6 is a horizontal section on the line 6—6 of Figure 4; and

Figure 7 is a horizontal sectional view on the line 7—7 of Figure 1.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawing by like reference characters.

The numeral 10 denotes a handle and 11 a screw driver fitted thereto, a bail 12 being fitted to the handle 10 to reinforce the same in a manner well understood.

In accordance with the invention a lever 13 is pivoted intermediate its ends to the ferrule 12 and is approximately of U-form as indicated most clearly in Figure 7. A head 14 is slidably mounted upon the outer end of the screw driver 11 and similar jaws 15 are pivoted thereto as indicated at 16 and are shaped to firmly grip the head of a screw and prevent displacement thereof. The inner ends of the jaws 15 overlap and are pivoted to side bars 17 as indicated at 18 and movement of these side bars effect an opening and a closing of the jaws. A yoke 19 connects the upper ends of the side bars 17. Links 20 are connected at their lower ends to the yokes 19 and the side bars 17 and their upper ends are connected to the lever 13. A helical spring 21 is mounted upon the screw driver 11 and its outer end abuts against the head 14 and its inner end engages the handle 10. The intermediate portion of the spring 21 is connected to the yoke 19 and the opposing ends of the side bars 17 and links 20 as indicated at 22. The inner portion of the spring 21 is normally stretched thereby tending to draw the head 14 inwardly and hold it and the co-acting parts in the position indicated in the several views. The inner end of the spring 21 is held to the handle by means of a pin 23 hence when the outer end of the lever 13 is moved rearwardly the head 14 has an outward movement imparted thereto, thereby further stretching the inner portion of the spring 21 and when the head 14 reaches the limit of its outward movement, a continued movement of the lever 15 effects an opening of the jaws 15 and at the same time compresses the outer portion of the spring 21. The head of the screw to be held is received between the outer ends of the jaws 15 and upon releasing the lever 13 the outer portion of the spring 21 expands thereby moving the yoke 19 and attached parts 17 and 20 inwardly and closing the jaws 15 whereby to grip the head of the screw, after which the head 14 is moved inwardly by the contraction of the inner portion of the spring 21 thereby clamping the head of the screw between the jaws and the point of the screw driver.

What is claimed is:—

1. In combination with a screw driver, a head slidably mounted thereon, screw holding jaws pivoted to the head, a lever pivoted to the handle, connecting means between the lever and jaws, a helical spring mounted upon the screw driver and having its outer end abutting against the said head, means connecting the inner end of the spring to

the handle of the screw driver, and other means connecting the intermediate portion of the spring to the connecting means between the lever and jaws.

2. In combination with a screw driver, a head slidably mounted thereon, screw holding jaws pivoted to said head, side bars pivoted to the inner ends of the jaws, a lever pivotally connected with the handle, links connecting the lever with the said side bars, and a helical spring mounted upon the screw driver and having its outer end abutting against said head and having its inner end connected with the handle, and having connections intermediate its ends with the said side bars and links.

3. In combination with a screw driver, a head slidably mounted thereon, screw holding jaws pivoted to the head, side bars connected to the said jaws, links connected to the inner ends of the side bars, a yoke connecting the opposing ends of the side bars and links, a lever connected with the handle, and a helical spring mounted upon the screw driver and having its outer end abutting against the said head and having its inner end connected with the handle and connected intermediate its ends to the said yoke, side bars, and links.

In testimony whereof I affix my signature in the presence of two witnesses.

HENRY J. WOHEAD.

Witnesses:
L. B. ROGAN,
C. H. STEVENS.