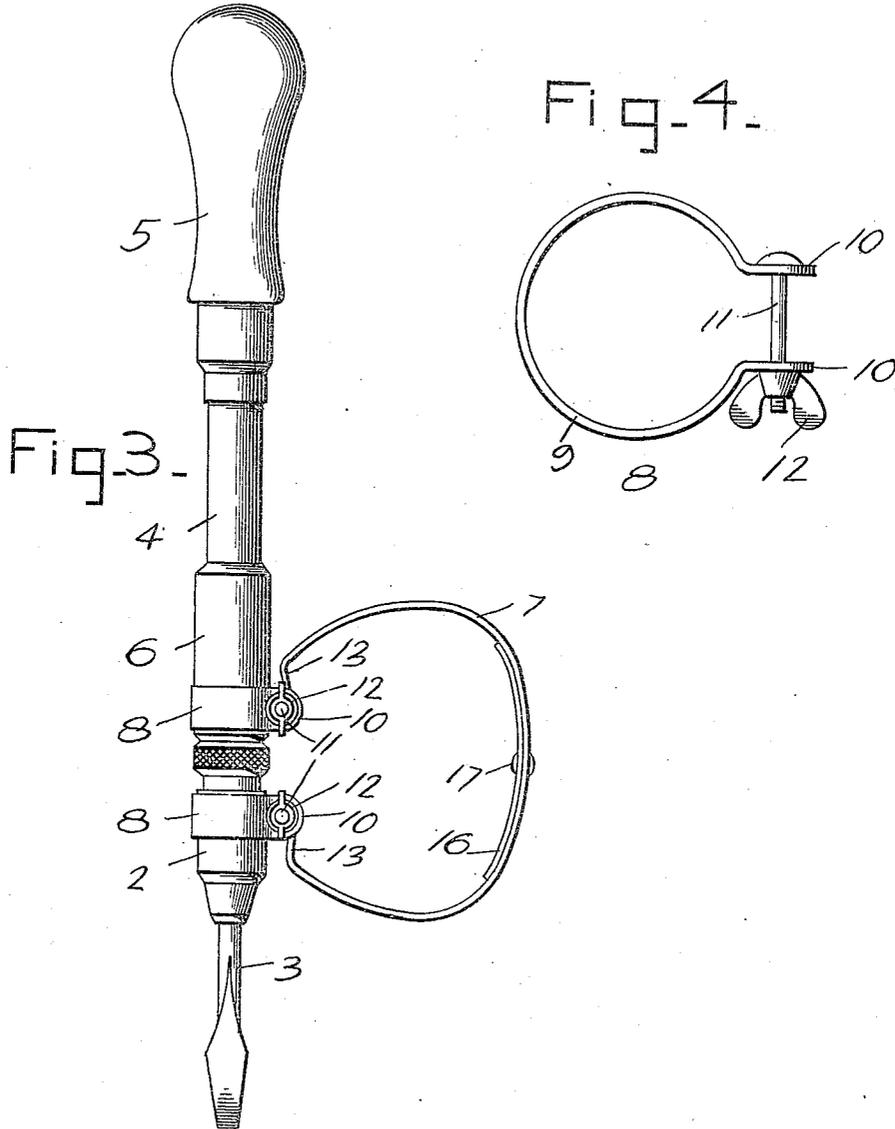


J. B. RUPLE.
SCREW DRIVER.

APPLICATION FILED APR. 13, 1907.

938,341.

Patented Oct. 26, 1909.
2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN B. RUPLE, OF RIFLE, COLORADO.

SCREW-DRIVER.

938,341.

Specification of Letters Patent. **Patented Oct. 26, 1909.**

Application filed April 13, 1907. Serial No. 367,967.

To all whom it may concern:

Be it known that I, JOHN B. RUPLE, a citizen of the United States, residing at Rifle, in the county of Garfield, State of Colorado, 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.

This invention relates to new and useful improvements in screw drivers, and it has particular reference to a screw driver including a reciprocating part, the movement of which actuates a rotary part that carries the drill socket, and, in addition to the parts above named, a spring for restoring the reciprocating part to initial position each time after it has been manually depressed.

In connection with a screw driver of the above type, the invention aims as a primary object to provide a spring of novel construction and in connection with which novel co-operating parts are employed.

The details of construction will appear in the course of the following description, in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein:

Figure 1 is a side elevation showing one position of the working parts, the handle being elevated. Fig. 2 is a similar view showing another position of the working parts, the handle being depressed. Fig. 3 is a detail perspective view of the spring, and Fig. 4 is a plan view of one of a pair of clips employed for mounting the spring.

Referring specifically to the accompanying drawings, a screw driver of conventional form is shown which comprises a shaft 1 formed with deep opposite intersecting threads and carrying at its lower end the usual socket 2, in which the bit 3 is held. The shaft 1 is telescopically received in a tubular member 4, which is slidable with relation to said shaft and which carries upon its upper end a hand grip 5 by means of which the member 4 may be manipulated. Said member is provided with any conventional reversible nut (not shown) for engaging the threads of the shaft 1 to direct its rotation in the direction desired, the nut

being carried by a sleeve 6 disposed at the lower end of the member 4.

The present invention specifically resides in employing in connection with a screw driver constructed generally as above set forth, a leaf spring 7, the function of which is to move the member 4 upwardly after each downward action thereof. To the end of mounting the spring 7 upper and lower similarly constructed clips 8 are mounted on the respective sleeve 6 and socket 2. The clips 8 are constructed of split rings 9 having parallel spaced apertured extensions 10 through which are projected bolts 11, the latter carrying on their threaded ends nuts 12, preferably wing nuts. The spring 7 has its ends similarly offset as at 13, the upper end being bent to form an open hook 14, and the lower end being bent to form a closed loop 15. For the purpose of reinforcing the spring 7, an auxiliary spring 16 is secured thereto between its ends as at 17, the spring 16 being materially shorter than the spring 7.

In assembling the parts, the bolt 11 of the lower clips 8 is engaged through the loop 15. The upper end of the spring 7 formed with the hook 14 is detachable from its clip, such detachment being manually effected when the handle is depressed with the parts in the position of Fig. 3.

A number of advantages are attendant by using the spring 7, primarily, the use of both hands upon the grip 5 to operate the screw driver and consequent increase of speed and efficaciousness in operation. The invention is exceedingly simple in construction, inexpensive to manufacture and practical and efficient in use.

From the foregoing description it will be seen that simple and efficient means are provided for accomplishing the objects of the invention, but, while the elements herein shown and described, are well adapted to serve the functions set forth, it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts without departing from the spirit and scope of the invention as defined in the appended claims.

What is claimed is:

A device of the class described comprising a pair of circular shaped clips, each having its opposite ends terminating in parallel perforated ears, detachable bolt fasteners

mounted in said ears, and adapted to clamp
the clips about the handle and extensible
portion of a tool, and a normally bowed re-
setting spring having a loop end adapted to
5 encircle one of the bolts and an opposite
hooked end adapted to detachably engage
the other bolt.

In testimony whereof, I affix my signa-
ture, in presence of two witnesses.

JOHN B. RUPLE.

Witnesses:

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