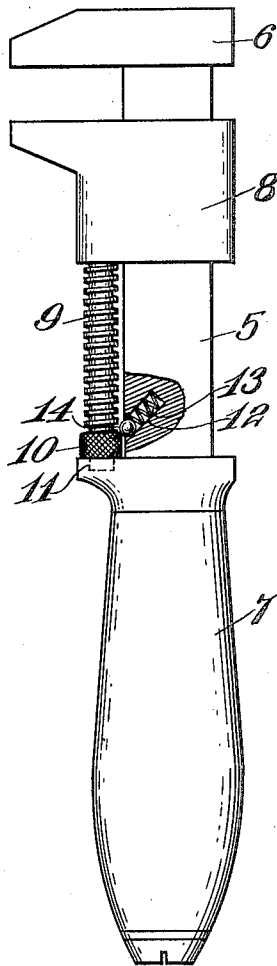


H. T. WILSON.
WRENCH.
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1,070,569.

Patented Aug. 19, 1913.



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Witnesses

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UNITED STATES PATENT OFFICE.

HARRY T. WILSON, OF CHICAGO, ILLINOIS.

WRENCH.

1,070,569.

Specification of Letters Patent.

Patented Aug. 19, 1913.

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To all whom it may concern:

Be it known that I, HARRY T. WILSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

This invention relates to wrenches having a sliding jaw which is adjusted by a screw, and its object is to provide the adjusting screw with a device for taking up wear by holding the screw and the thumb piece thereof to their seats, so that the jaw will not lose its grip when set after the wrench has been used for some time and the screw and the thumb piece have become worn at their seats.

In order that the invention may be better understood, reference is had to the accompanying drawing in which an elevation of a wrench, partly in section, is shown provided with the take-up device.

Referring specifically to the drawing 5 denotes the shank of the wrench at one end of which is a fixed jaw 6, and at the other end a grip 7. On the shank is mounted a slidable jaw 8 which is adjusted by means of a screw 9 arranged and operated in the ordinary manner. The screw is fitted with a knurled thumb-piece 10 whereby it is turned. In the outer end of the grip is a seat 11 for the inner end of the screw, and adjacent to this seat the shank 5 has a recess 12 in which seats a coiled spring 13 and a ball 14, the latter being at the outer end of the recess and projecting therefrom, and the spring being behind the ball so that

it tends to force the latter outward. The recess extends obliquely into the shank from the edge which is opposite the screw, and it is so located that the ball bears against the thumb-piece 10 in such a way as to force the screw 9 to its seat 11. Thus, the spring 13, through the ball 14, exerts a constant pressure on the thumb-piece, and the screw is thus held firmly to its seat at all times. If any wear of the screw or the thumb piece at the seat takes place, this is taken up by the ball and spring, thus reducing the looseness or play of the parts at the seat.

The device is very simple and can be readily applied to the wrench without altering or modifying the structure thereof, other than boring the recess 12. As the presser device is a ball, the operation of the screw is not rendered harder to an appreciable extent.

I claim:

A wrench having a sliding jaw, a screw for adjusting the jaw, a seat for one end of the jaw, a shank on which said jaw is mounted, said shank having an edge recess inclined in the direction of the seat, a thumb-piece on the screw, a ball projecting from the recess and engageable with the thumb-piece, and a spring mounted in the recess and engageable with the ball to press the same outward.

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

HARRY T. WILSON.

Witnesses:

C. H. WARNER,
H. G. BATCHELOR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."