

R. SCHÄFER,
 ADJUSTABLE SPANNER.
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1,382,248.

Patented June 21, 1921.

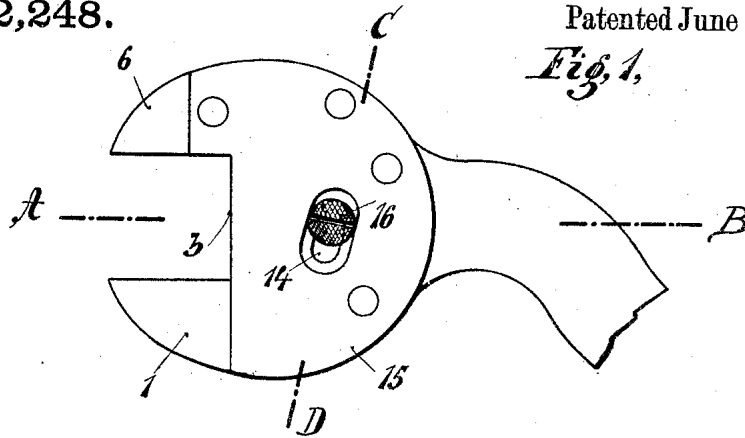


Fig. 1.

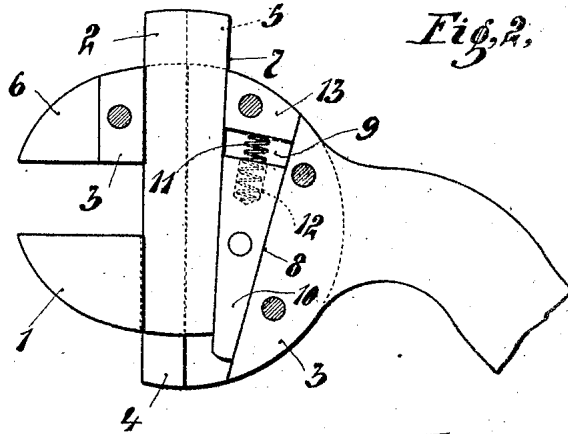


Fig. 2.

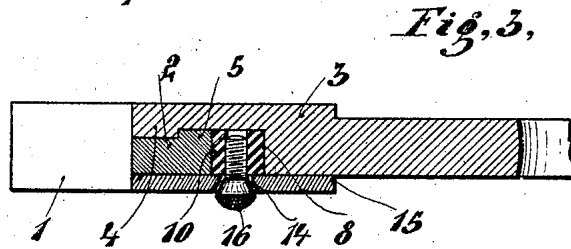


Fig. 3.

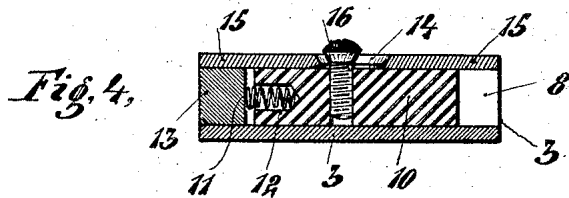


Fig. 4.

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ADJUSTABLE SPANNER.

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To all whom it may concern:

Be it known that I, ROBERT SCHÄFER, a citizen of the Republic of Germany, residing at Erfurt, Germany, have invented certain new and useful Improvements in Adjustable Spanners, of which the following is a specification.

The present invention relates to a wrench or spanner of the round-headed type with adjustable jaw, and consists in the provision of a locking element for the adjustable jaw in the form of a wedge fitted in a recess in the head so as to support the jaw by bearing against its wedge-shaped guide-bar. The wedge is spring-pressed and can be adjusted longitudinally from the outside for releasing the jaw.

In the accompanying drawings the invention is illustrated.

Figure 1 representing a side view of the spanner-head,

Fig. 2, a similar view with the elements uncovered and in a different position,

Fig. 3, a section on the line A—B, and

Fig. 4, a section on the line C—D of Fig. 1.

The round head 3 of the spanner is formed with a rigid jaw 6 and an adjustable jaw 1. The adjustable jaw is secured at right angles to a bar 2 by means of which it is guided in the head, a shoulder 4 in the latter in being interlocking engagement with a shoulder 5 on the bar. To hold the jaw 1 in adjusted position, a wedge 10 is employed which is accommodated in a recess 9 formed in the head behind the bar 2, the wedge being supported on the shoulder 8 formed by the recess. The back 7 of the bar 2 is roughened and so is the corresponding bearing surface of the wedge. The bar 2 is moreover slightly wedge-shaped so that the outward pressure

on the jaw when the spanner is in use, will cause the bar 2 to be rigidly jammed between the wedge and the shoulder 4.

A spring 11, accommodated in a recess 12 in the wedge 10 and bearing against an abutment 13, tends to hold the wedge in locking position. The wedge and the bar are protected by a cover 15 in which there is a slot 14 to admit a headed screw 16 fixed to the wedge 10. The head 16 is used for moving the wedge out of engagement with the bar 2 and unlocking the jaw. After the adjustment of the jaw and the release of the head 16, the spring 11 locks the jaw in position.

I claim:

1. In an adjustable spanner, a round spanner head, a wedge-shaped bar secured to the adjustable jaw at right angles and guided in the spanner-head, the bar and head being formed with interlocking shoulders, a locking wedge arranged in the head so as to support the bar and jam it to the shoulder of the head by the pressure on the jaw when the spanner is in use, and a spring arranged behind the locking wedge so as to hold it in locking position, substantially as set forth.

2. In an adjustable spanner, a round spanner head, a wedge-shaped bar secured to the adjustable jaw at right angles and guided in the spanner-head, the bar and head being formed with interlocking shoulders, a spring-pressed locking wedge arranged in the head so as to support the bar and jam it to the shoulder of the head by the pressure on the jaw when the spanner is in use, a cover secured to the head to hold the jaw and wedge in position, and a headed screw projecting through said cover and secured to the locking wedge for shifting the latter into releasing position, substantially as set forth.

ROBERT SCHÄFER.