J. C. PARKER.

WRENCH.

APPLICATION FILED JAN. 30, 1908.

900,120. Patented Oct. 6, 1908.

FIG. 1.

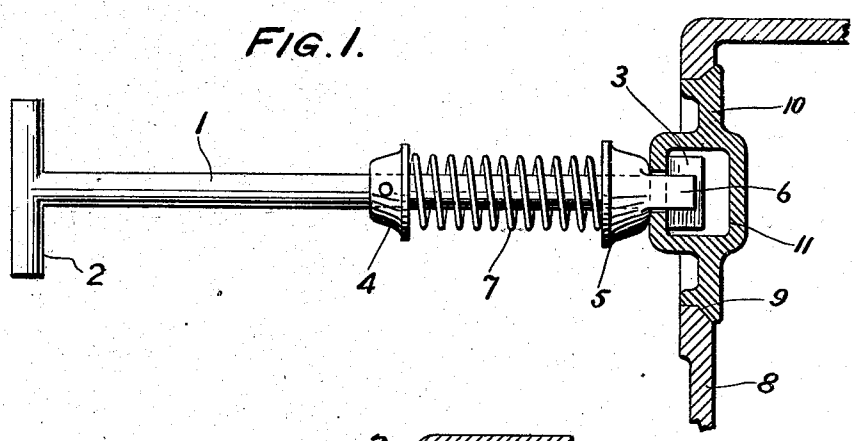
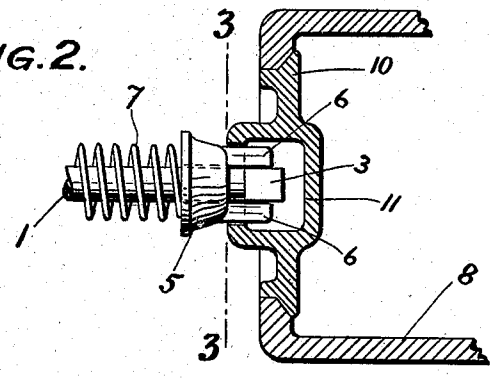


FIG. 2.



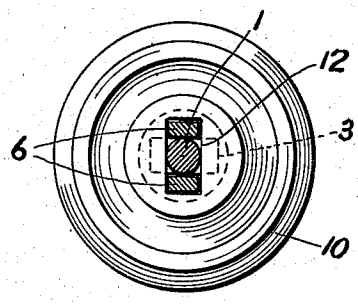


FIG. 3.

WITNESSES:

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WRENCH.

No. 900,120. Specification of Letters Patent. Patented Oct. 6, 1908.

Application filed January 30, 1908. Serial No. 413,431.

To all whom it may concern:

Be it known that I, JOHN C. PARKER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a Wrench, of which the following is a specification.

This invention is a wrench designed particularly for engaging hand hole covers of junction boxes, to handle, turn and grind them upon their seats.

In the accompanying drawings, Figure 1 is a sectional elevation showing the invention applied to a hand hole cover of a junction box; Fig. 2 is a sectional elevation of part of the same mechanism viewed at right angles to the position shown in Fig. 1; and Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1.

In the form represented in the drawings, the wrench comprises the shank 1 having fixed at one end thereof the handle 2 and at the opposite end the T-head 3. A collar 4 (providing a bearing) is fixed on an intermediate part of the shank, and a collar 5 (providing a bearing and a knob) is movable revolubly and longitudinally on the shank intermediate of the head 3 and the collar 4, the collar 5 being provided with the projections 6 parallel with the shank and designed to engage the head between them or to register with its projecting ends disposed in the plane thereof. A coiled spring 7 is placed on the shank between the collars 4 and 5, being held by the former so as to act upon the latter which is movable thereby toward the head 3. The junction box 8 has the hand hole 9 to which is fitted the circular cover 10 having the hollow body 11 provided with the rectangular slot or opening 12, the body of the cover being adapted for engaging it to the junction box and for the connection of the wrench thereto, to hold, handle and grind it upon its seat.

To arrange the wrench for engagement with the cover, the movable collar is used as a knob, drawn back against the action of the spring and turned until the projections thereon are brought into the plane of the T-head, when the head and projections can be thrust through the slot in the body of the cover. With the parts so inserted, by turning the shank through a quadrant the head is revolved to a position transverse to the plane of the projections and is drawn back between them by the action of the spring with the pressure on the handle relaxed. The cover is thus locked to the wrench, the projections engaging the slot in which they cannot be turned and the head extending transversely to the slot between the projections within the body.

It will be understood that the wrench may be disengaged and removed by drawing back the collar 5, against the action of the spring 7, until the projections 6 clear the head 3 and the shank then turned to bring the head parallel with the slot.

While this wrench is designed particularly for holding, handling and grinding covers for junction boxes, including boiler headers, it is manifestly available and is intended for analogous uses with other devices, such, for example, as grinding valves on their seats.

Having described my invention, I claim:

1. A wrench comprising a shank having a transversely extending member fixed to an end thereof, and a device revolubly and longitudinally movable on said shank, said device having a member for engaging said transverse member to prevent relative revolution of said parts.

2. A wrench having a shank with a T-head, a device having projections revolubly and longitudinally movable on said shank so as to be placed in either free or interlocking relation with said head.

3. A wrench having a shank with a T-head, a collar with projections movable revolubly and longitudinally on said shank, a collar fixed to said shank, and a spring between said collars.

4. A wrench having a shank with a transversely extending member fixed to an end thereof, a bearing fixed to said shank, a bearing revolubly and longitudinally movable on said shank, and a spring disposed between said bearings, said movable bearing having means for engaging the transversely extending member of said shank whereby said movable member and shank are held against relative revolution.

In witness whereof I have hereunto set my name this 29th day of January, A. D. 1908, in the presence of the subscribing witnesses.

JOHN C. PARKER.

Witnesses:

ROBERT JAMES EARLEY,

JOS. G. DENNY, Jr.