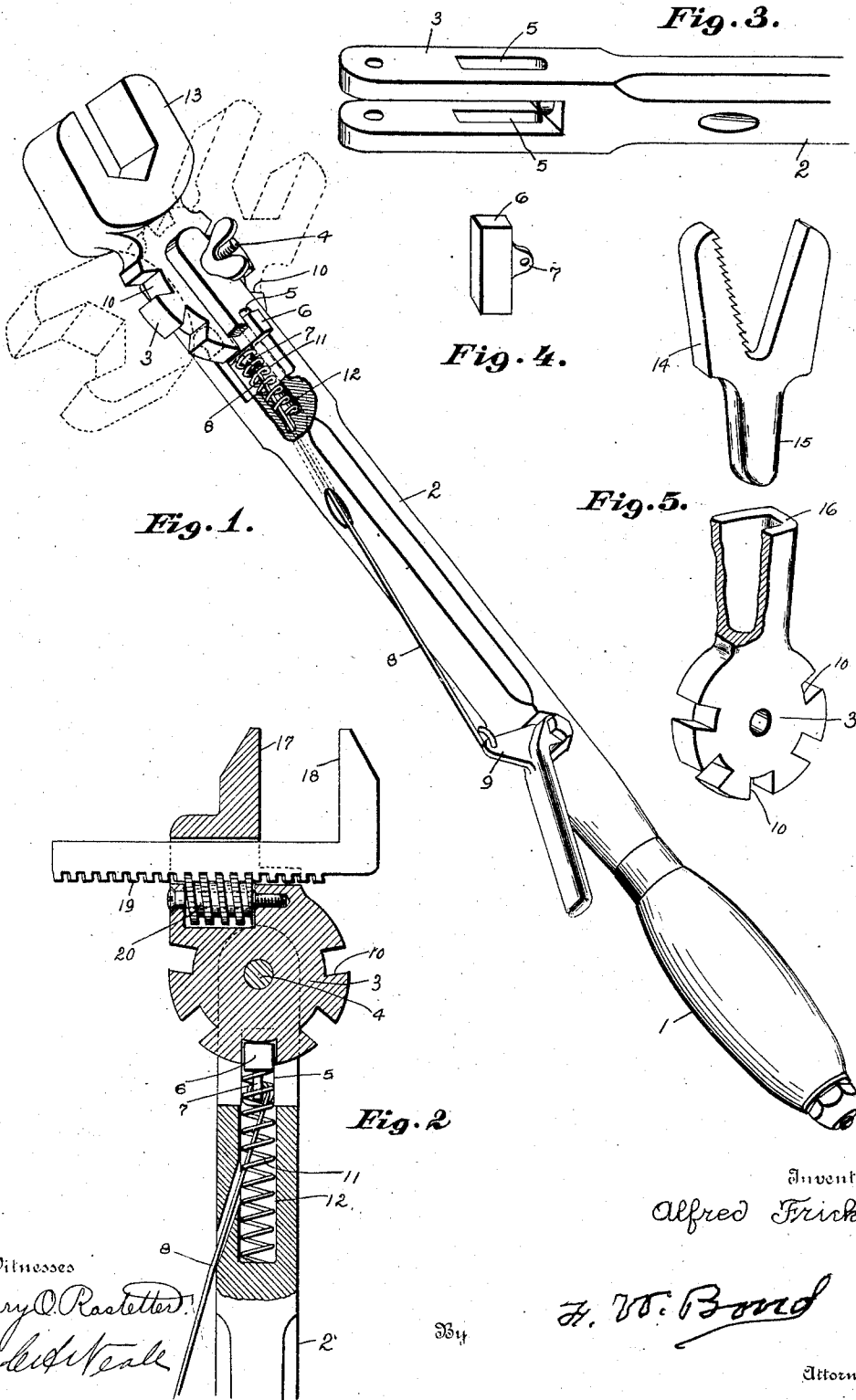


A. FRICK.
WRENCH.

APPLICATION FILED JULY 15, 1907.

928,375.

Patented July 20, 1909.



Witnesses
Harry O. Rastetter
Edw. Keale

Inventor
Alfred Frick

H. W. Bond

Attorney

UNITED STATES PATENT OFFICE.

ALFRED FRICK, OF ALLIANCE, OHIO.

WRENCH.

No. 928,375.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed July 15, 1907. Serial No. 383,758.

To all whom it may concern:

Be it known that I, ALFRED FRICK, a citizen of the United States, residing at Alliance, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, making a part of this specification, and to the numerals of reference marked thereon, in which—

Figure 1 is a perspective view of the wrench. Fig. 2 is a sectional view showing the upper portion of the handle and its different attachments showing modified form of jaw. Fig. 3 is a view showing portion of the shank showing different parts detached therefrom. Fig. 4 is a detached view of the jaw holding head block. Fig. 5 is a view showing the jaw and socket, showing a modified form of jaw.

The present invention has relation to wrenches, and it consists in the novel arrangement hereinafter described and particularly pointed out in the claim.

Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the handle, which may be of the form shown and to which handle is attached the shank 2, which shank is bifurcated as illustrated in the drawings. To the bifurcated end of the shank 2 is pivotally attached the notched head 3 by means of the bolt 4. The bifurcated end of the shank is provided with the elongated slots 5, through which elongated slots is located the jaw holding head block 6, said jaw holding head block being located substantially as shown in Figs. 1 and 2. The jaw holding head block 6 is provided with the flange 7 to which flange is attached the rod 8, which rod is connected at its opposite end to the pivoted lever 9, said lever being pivotally connected to the shank 2.

For the purpose of normally holding the head 6 in engagement with one of the notches 10 the spring 11 is provided which spring is located in the recess 12 formed in the shank 2. It will be understood that when the head 6 is disengaged from the notched head 3 the head together with the jaws 13 can be brought at any angle within the limits of the

movement of said head with the shank 2 and the handle 1. By providing the slots 5 and locating the head 6 through the slots the strain will be removed from the notches, thereby transferring the strain to the shank 2. In some instances it may be desired to form the jaw head 14 separate from the toothed head 3 and when this is desired the jaw head 14 is provided with the shank 15, which shank is inserted in the socket 16, by which arrangement it is not necessary to remove the entire head from the shank when the shank and jaws of the wrench are formed integral as shown in Fig. 1; it is necessary to remove the entire head and substitute a different head having different shaped jaws. In Fig. 2 I have illustrated a fixed jaw 17 and an adjustable jaw 18, which adjustment is made by the rack bar 19 and the screw 20. This is simply shown to illustrate that different kinds of jaws can be attached to different heads and the heads connected to the shank 2.

In order to provide for removing the head 3 the bolt 4 must necessarily be removed but when the shank 15 and the socket head is employed it is not necessary to move the head to substitute a different form of jaws.

Having fully described my invention what I claim as new and desire to secure by Letters Patent, is—

In a wrench of the class described, the combination of a bifurcated shank, said shank provided with elongated slots, and a recess formed in the shank, said recess leading from the space between the parts provided with the elongated slots, a notched head journaled in the bifurcated shaft, said head provided with wrench jaws, a sliding block located in the elongated slots of the shank, said block adapted to engage a notch of the notched head, a spring adapted to normally hold the block in engagement with the notched head and against sliding movement in the elongated slots and means for disconnecting the block from the notched head, substantially as and for the purpose specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

ALFRED FRICK.

Witnesses:

C. L. WALKER,
J. C. WALLACE.