No. 795,682. PATENTED JULY 25, 1905.

O. W. BLAKE.

WRENCH.

APPLICATION FILED MAR. 16, 1905.

FIG. 1.

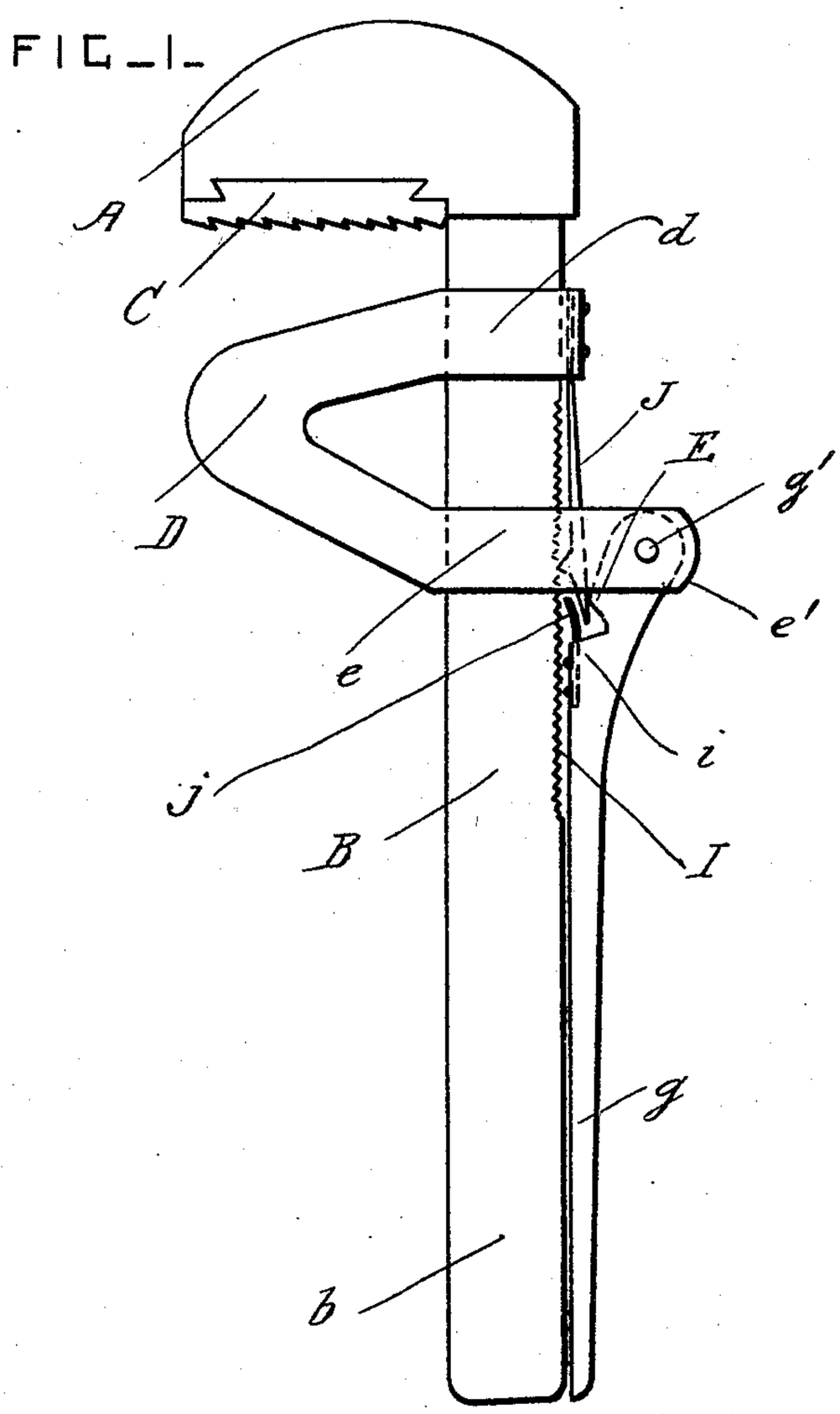
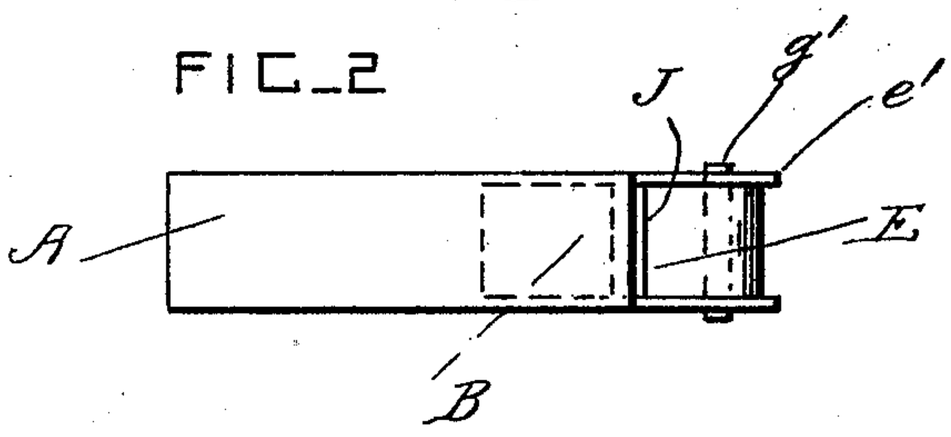


FIG. 2.



WITNESSES:

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WRENCH.

No. 795,682. Specification of Letters Patent. Patented July 25, 1905.

Application filed March 16, 1905. Serial No. 250,362.

To all whom it may concern:

Be it known that I, ONESIMUS W. BLAKE, a citizen of the United States, residing at Turret, in the county of Chaffee and State of Colorado, have invented certain new and useful Improvements in Wrenches; 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 wrenches for pipes and also for other purposes; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view of a pipe-wrench constructed according to this invention. Fig. 2 is a plan view of the same.

A is a stationary wrench-jaw formed at one end of a rectangular guide-shank B. The other end portion *b* of this shank forms the handle of the wrench. The wrench-jaw A is provided with a serrated plate C, which is let into it when the wrench is used for pipes.

D is a slidable wrench-jaw provided with sockets *d* and *e*, which are slidable upon the guide-shank B. The lower socket *e* is provided with a forked end portion *e'*, which projects over the guide-shank, and E is a cam provided with a long handle portion *g*. The cam E is pivoted in the forked end portion *e'* upon a pin *g'*, and its handle portion is provided with a shoulder *i*.

A series of serrations I is formed on the guide-shank B, and J is a spring-pawl which is secured at one end to the socket *d* and which is free to engage with the said serrations. A spring-tooth *j* is secured to the projection or shoulder *i* of the handle portion *g* and is free to engage with the free end portion of the spring-pawl J.

When the two handle portions *b* and *g* are grasped in the hand, the cam holds the spring-pawl firmly in engagement with one of the serrations of the guide-shank, and the jaw D cannot slip. When the handle portion *g* is moved away from the handle *b*, the cam releases the spring-pawl, and the spring-tooth *j* moves the spring-pawl pivotally out of engagement with the serrated guide-shank, so that the wrench-jaw D can be slid rapidly upon the guide-shank and adjusted to any desired size of pipe.

What I claim is—

1. In a wrench, the combination, with a serrated guide-shank having a wrench-jaw at one end, of a wrench-jaw slidable on the said shank, a pawl pivotally connected with the said slidable jaw and engaging with the serrations of the said shank, a cam pivoted to the said slidable jaw and holding the said pawl in engagement with the said shank, and a tooth carried by the said cam and engaging with the said pawl.

2. In a wrench, the combination, with a serrated guide-shank having a wrench-jaw at one end, of a wrench-jaw slidable on the said shank and provided with a forked portion which projects across the said shank, a pawl pivotally connected to the said slidable jaw and having its free-end portion arranged in the said forked portion, a cam pivoted to the said forked portion and pressing the said pawl into engagement with the said serrated shank, and a tooth carried by the said cam and engaging with the said pawl and releasing it from engagement with the said shank when the said pawl is released from the said cam.

In testimony whereof I have affixed my signature in the presence of two witnesses.

ONESIMUS W. BLAKE.

Witnesses:
C. F. VALENTINE,
J. H. HABENICHT.