

(No Model.)

J. D. STANTON.

WRENCH.

No. 305,352.

Patented Sept. 16, 1884.

Fig. 1.

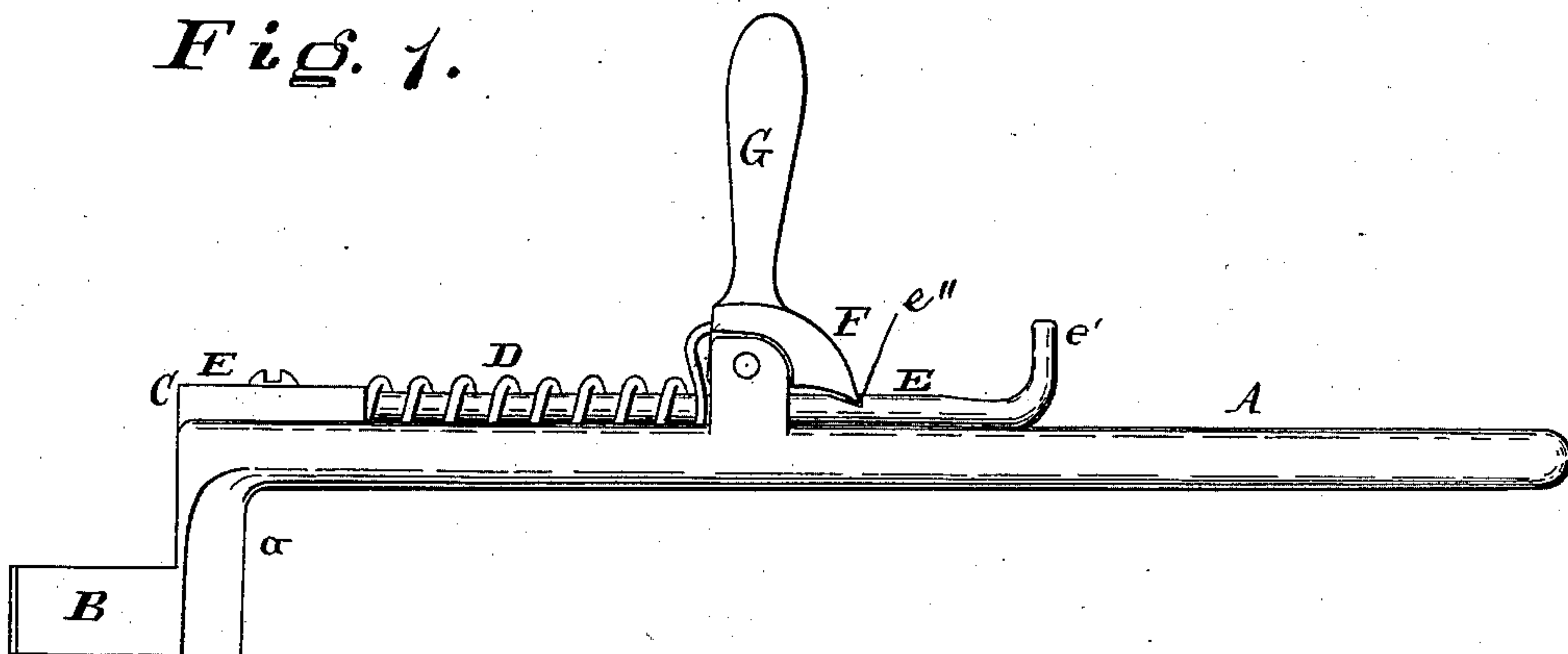


Fig. 2.

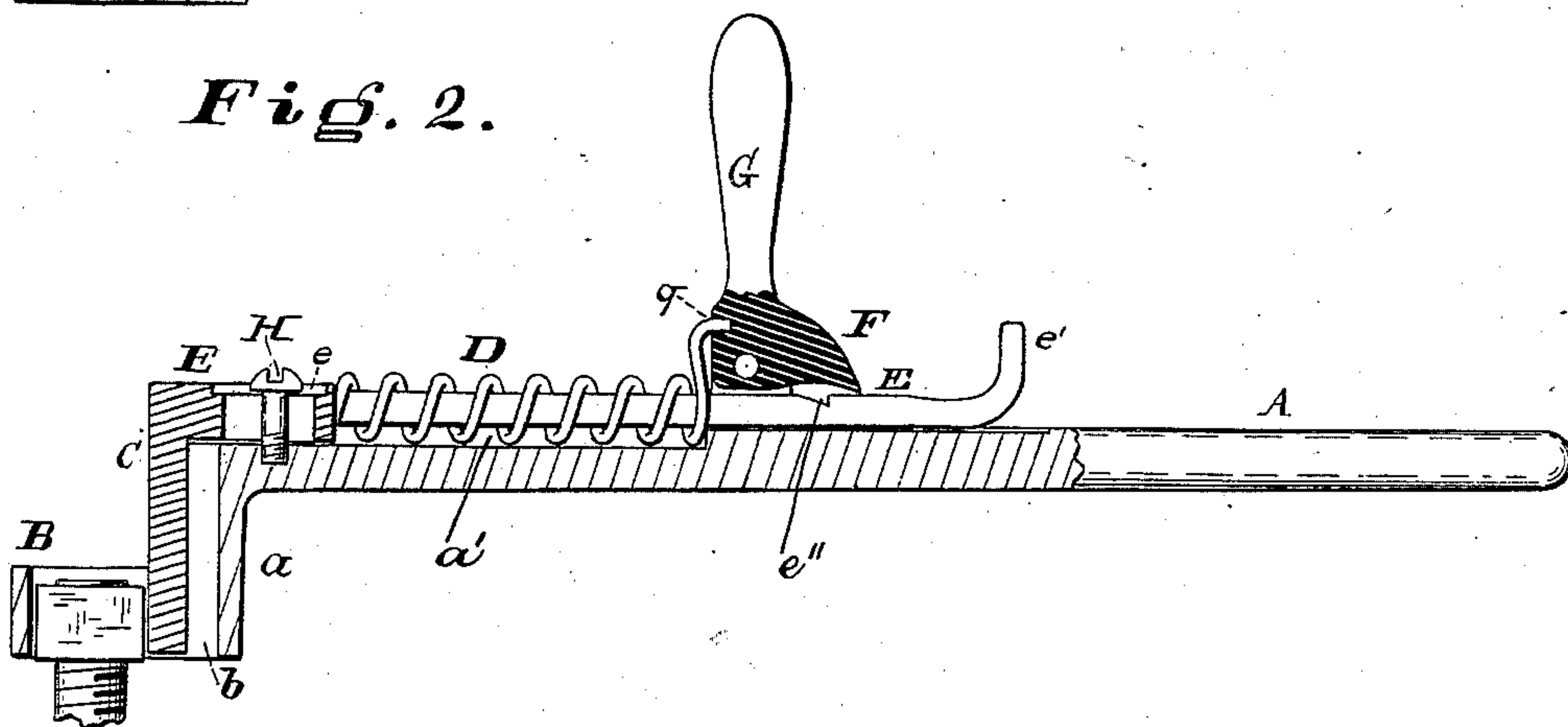


Fig. 3.

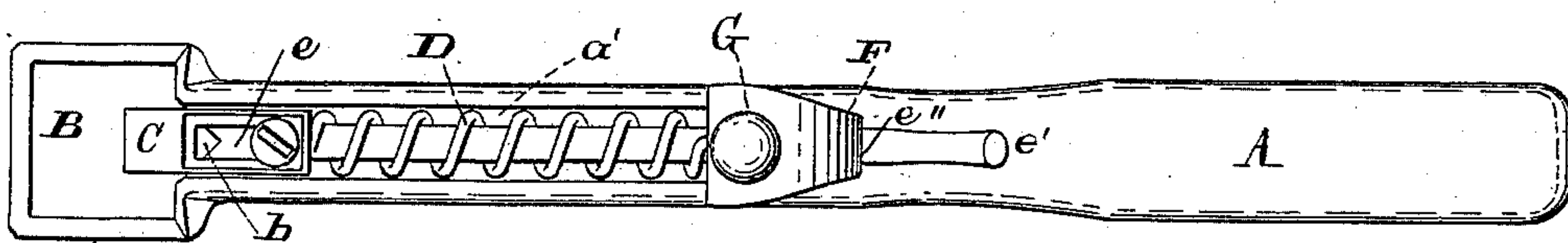
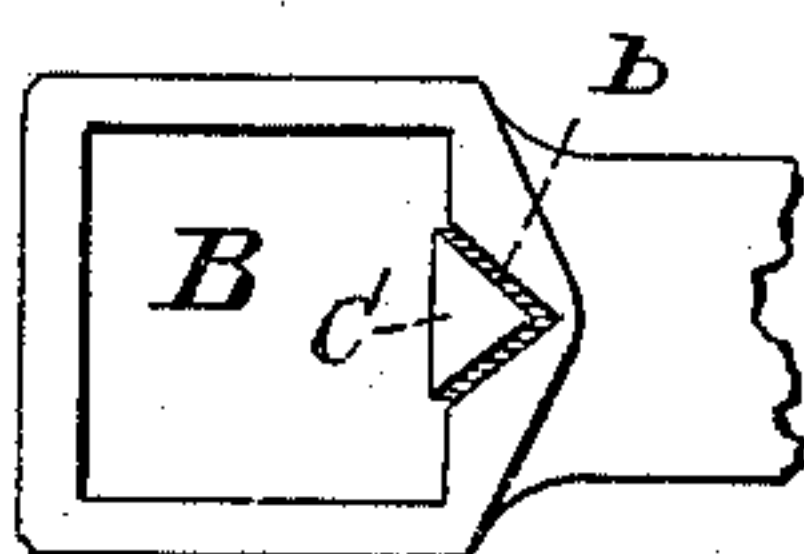


Fig. 4.



Attest:
A. P. Knight
Geo. Wheelock

Inventor:
James D. Stanton
By Knight Bros.
Atlys.

UNITED STATES PATENT OFFICE.

JAMES D. STANTON, OF DAYTON, OHIO.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 305,352, dated September 16, 1884.

Application filed May 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES D. STANTON, of Dayton, Montgomery county, Ohio, have invented a new and useful Improvement in Wrenches, of which the following is a specification.

The invention consists in providing a wrench or spanner (especially such as are used for operating on the nuts of carriage-axles) with an optionally-released pressure-jaw within the eye, the parts being so constructed and arranged that for engagement with and starting loose of such nut the jaw is retracted and constitutes a part of the unyielding surface of the eye, and so that after the nut has been loosened on its screw the said jaw, being released by a suitable trigger, tightly clasps the nut, so as to enable its rapid rotation. The same jaw is also useful for rapid screwing home of such a nut, or of any like object constituting or having a screw attachment to another.

In the accompanying drawings, Figure 1 is a side view of my wrench with the pressure-jaw in its retracted condition. Fig. 2 is a similar section with the jaw protracted. Fig. 3 is a front view of the instrument. Fig. 4 is a rear view of the eye and pressure-jaw.

A represents a handle, which is preferably bent rearward (as at *a*) at one end, where it has projecting rigidly from it a square or other suitable eye, B, which, on the side next to the handle, has a recess, *b*, to receive in its retracted position (see Fig. 1) a pressure-jaw, C, which, whenever at liberty, is pressed to-

ward the center of the eye by a helical spring, D. (See Figs. 2 and 3.) The jaw C has a shank, E, which is held within a groove, *a'*, in the handle by a bolt, H, which traverses a slot, *e*, in said shank. Said shank terminates in a lip, *e'*, by which it is retracted when desired. The said jaw is automatically caught in and held to its retracted position by engagement of a trigger-pawl, F, in a notch, *e''*, in said shank. The automatic engagement of the pawl F is secured by pressure of the same helical spring D that protracts the jaw C, one extremity of said spring, with this object in view, engaging in an orifice, *g*, in a handle, G, that projects integrally from said pawl.

For application to the nut the wrench is put in the condition shown in Figs. 1 and 4. The trigger-pawl F being then sprung, as in Figs. 2 and 3, the released jaw C grips the nut, which is first started or loosened by means of a handle, A. The operator then, grasping the handle G of the trigger-pawl, rapidly revolves the nut. Screwing on of the nut is effected by a reversal of these movements.

I claim as new and of my invention—

The combination of a socket and a handle, the jaw C E, having a notch, *e''*, spring D, and trigger-pawl F G.

In testimony of which invention I hereunto set my hand.

JAMES D. STANTON.

Attest:

GEO. H. KNIGHT,
JOHN A. PENN.