

(No Model.)

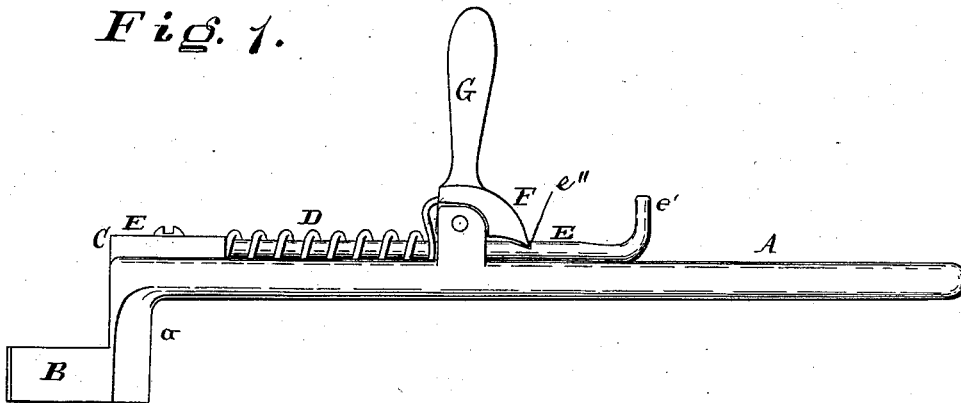
J. D. STANTON.

WRENCH.

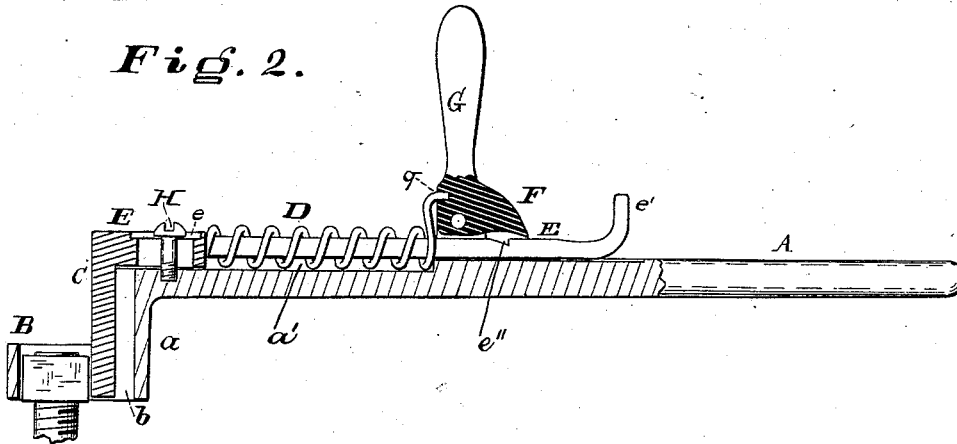
No. 305,352.

Patented Sept. 16, 1884.

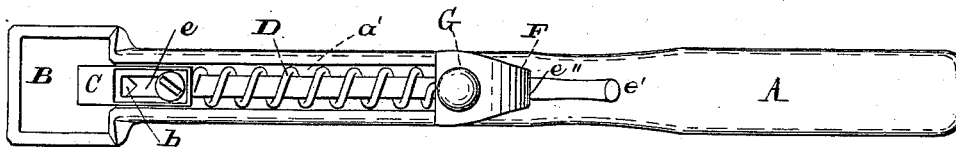
*Fig. 1.*



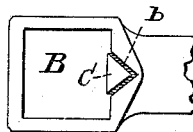
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Attest:

A. V. Knight

Geo. Wheelock

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By Knight Bros.  
Atty.

# 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.