

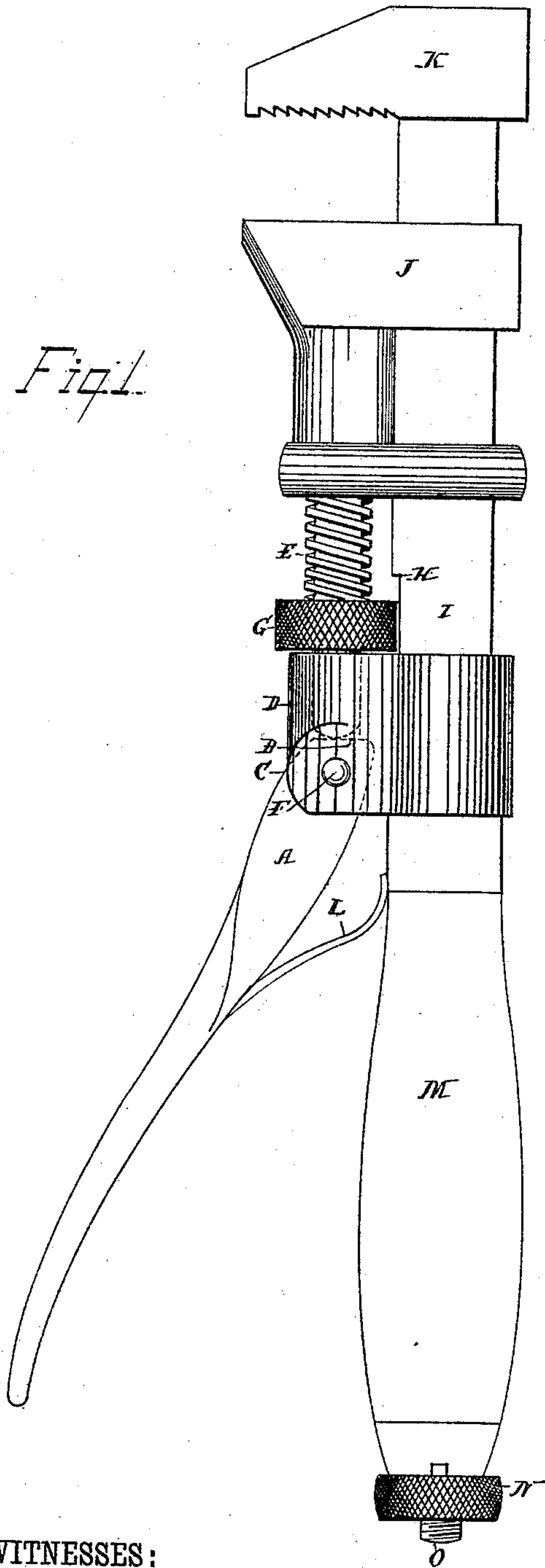
(No Model.)

G. A. BARNES.  
WRENCH.

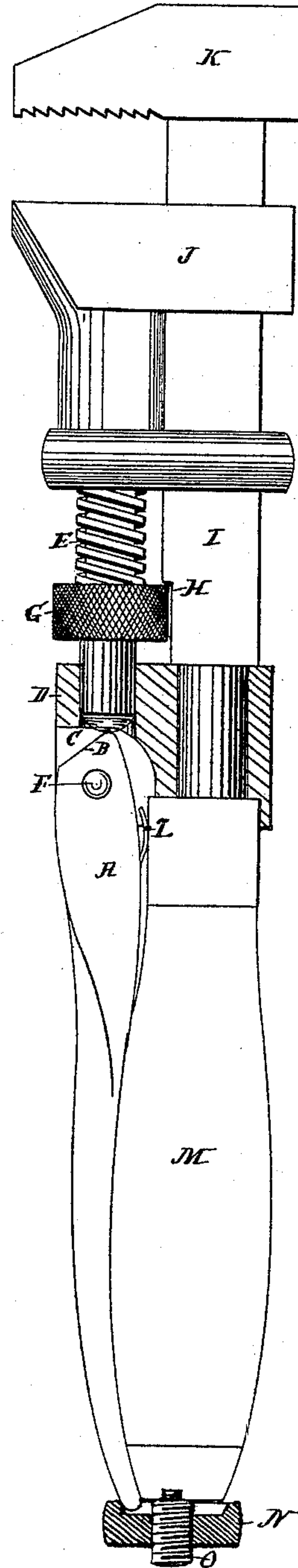
No. 330,369.

Patented Nov. 17, 1885.

*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

*J. Edward Ludington*  
*James Gardner Clark*

INVENTOR

*George A. Barnes,*  
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# UNITED STATES PATENT OFFICE.

GEORGE ASA BARNES, OF NEW HAVEN, CONNECTICUT.

## WRENCH.

SPECIFICATION forming part of Letters Patent No. 330,369, dated November 17, 1885.

Application filed March 23, 1885. Serial No. 159,713. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE A. BARNES, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Wrenches; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in sliding jaw wrenches, the object being to produce a simple, durable, convenient, and efficient tool.

With these ends in view my invention consists in a wrench having a sliding jaw, a lever for operating the same, and a chambered nut for positively locking the lever in its closed position upon the handle of the tool.

In the accompanying drawings, Figure 1 is a view in side elevation of a wrench embodying my invention and showing the lever in its open position. Fig. 2 is a similar view showing the lever in its closed position and positively locked upon the handle of the tool by the chambered nut; and Fig. 3 is a detached view in transverse section of the lever.

The wrench herein shown consists of a handle, M, a shank, I, having a serrated jaw made integral with it, a sliding jaw, J, an adjusting-screw, E, provided with a knurl, G, a bearing, D, having a slot, C, and a lever, A, provided with a cam-face, B, and pivoted by a pin, F, in the slot C of the bearing E aforesaid, such parts being of known construction.

My improvement, as shown, consists in a threaded stud, O, located in and projecting from the end of the handle M of the tool, and in a knurled nut, N, located upon the said stud, and having its upper face chambered to receive the end of the lever, which it positively locks in its closed position upon the handle of the wrench.

A spring, L, secured to the inner face of

the lever, and interposed between the same and the handle M, is employed for automatically carrying the lever into its open position when released from the chambered nut. A chambered nut arranged as described is completely effective as a positive lock, for the lever is easily operated and in nowise interferes with the handling and use of the wrench, the convenience of which is unimpaired.

I am aware that sliding-jaw wrenches have heretofore been provided with cam-faced levers for operating their sliding jaws, and that wrenches provided with levers for operating and controlling their jaws have been provided with positive locks for holding such levers in their closed positions, and with springs for carrying the levers into their open positions.

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

1. A wrench having a sliding jaw, a lever for operating the same, and a chambered nut located upon a stud projecting from the end of the handle of the tool for positively locking the lever in its closed position, substantially as set forth.

2. A wrench having a sliding jaw, an adjusting-screw for operating the same, a cam-faced lever engaging with the screw for longitudinally moving it, a threaded stud projecting from the end of the handle of the wrench, and a nut located upon the said stud and chambered to receive the end of the lever for locking the same in its closed position upon the handle of the tool, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

GEORGE ASA BARNES.

Witnesses:

JAMES GARDNER CLARK,  
BENJ. J. SMITH.