

No. 819,246.

PATENTED MAY 1, 1906.

C. H. NOYES.
WRENCH.

APPLICATION FILED JAN. 6, 1905.

FIG. 1.

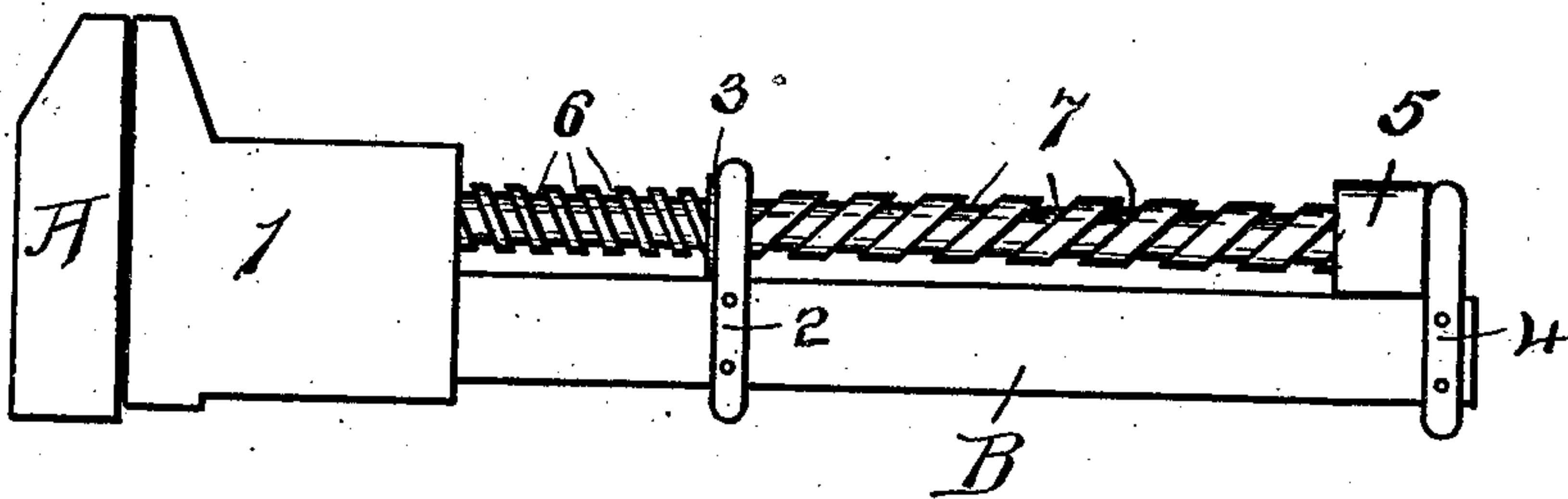
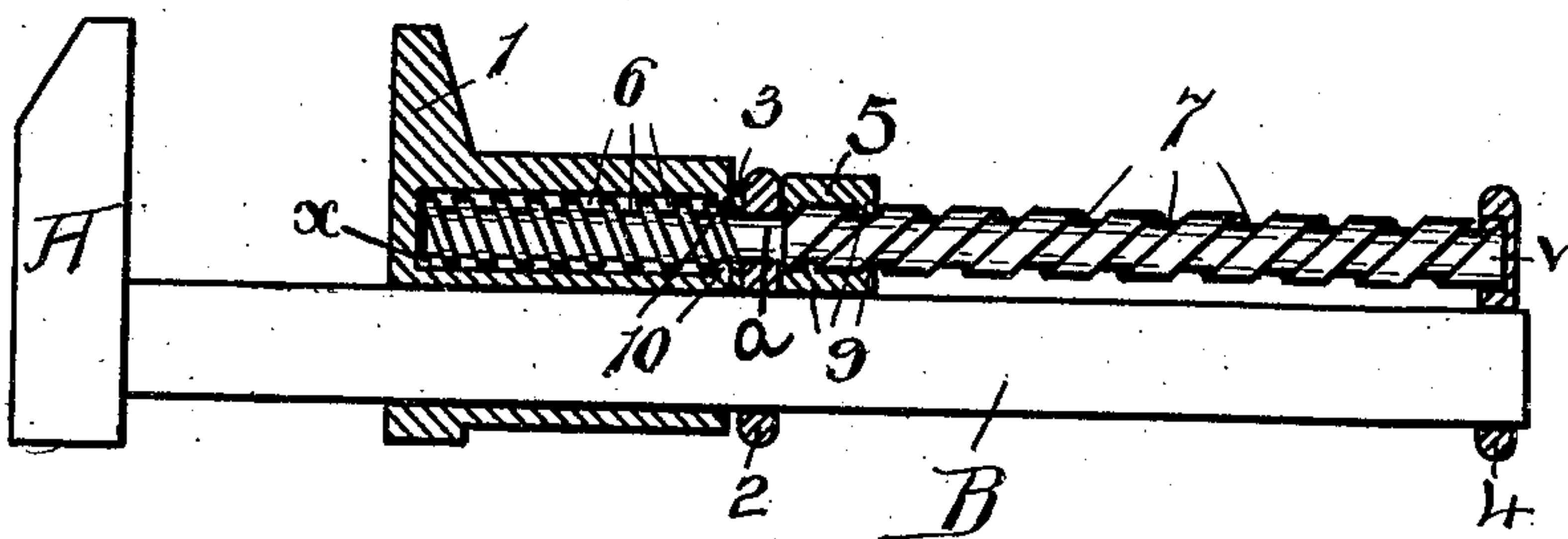


FIG. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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WRENCH.

No. 819,246.

Specification of Letters Patent.

Patented May 1, 1906.

Application filed January 6, 1905. Serial No. 239,940.

To all whom it may concern:

Be it known that I, CHARLES H. NOYES, a citizen of the United States, and a resident of Decatur, in the county of Burt and State of Nebraska, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

My invention relates to a quick-adjusting wrench exceedingly simple of construction, comprising a double-threaded shaft and a head, the shaft being rotated by the collar, as will be described more fully hereinafter.

In the accompanying drawings I have shown, in Figure 1, a side elevation of a wrench embodying my invention, while Fig. 2 shows a view partly in section.

In carrying out the aim of my invention, I use a suitable bar B, provided with a wrench-head A. This bar B is provided at one end with the striding member 4, secured by suitable rivets, and provided with a socket forming a seating. Intermediate of its length the bar B is provided with a second striding member 2, which is perforated to receive the collar portion *a* of the doubly-threaded shaft used in my invention, the shaft upon one end being provided with a coarse thread 7 and at the opposite end with a finer screw-thread 6, as shown in Figs. 1 and 2, the plain portion *a* being intermediate and forming a bearing, while the end *v*, as shown in Fig. 2, finds a seating within the member 4, as shown. Working upon the stem B is the sliding head 1, provided with an opening *x*, into which the screw 6 is adapted to thread, as shown, a washer 3 being interposed between the head 1 and the fixed striding member 2. Loosely threading upon the screw 7 is the nut 5, which nut may be shoved backward or forward to rotate the coarse-threaded screw 7 in one direction to feed in an opposite direction, the head 1, provided with the inwardly-extending lips 10, forming a nut. From this it will be seen that secured to the stem B are the fixed members 2 and 4, which revolubly

support a member provided with the coarse screw 7 and the finer screw 6 to actuate the head 1 in sliding the nut 5 backward and forward.

I am well aware that it is not new, broadly, to construct a wrench having a movable jaw operated by a spirally-grooved spindle, rotated by a movable member, as is disclosed, for instance, in the Patent No. 732,752, issued July 7, 1903, to L. Kules, but what I claim, and desire to secure by United States Letters Patent is the exact and specific construction as set forth in the following claim to hold as an improvement over the device described in said patent to Kules.

I claim—

A bar rectangular in cross-section and having an integral wrench-head at one end, a striding member secured to the opposite end of said bar, provided with a socket, a second striding perforated member secured intermediate of the ends of said bar, said perforations being in alinement with said socket, a doubly-threaded shaft provided with an intermediate collar portion, said collar portion being held by said perforated member, one end of said shaft being held within said socket, the threads of said doubly-threaded shaft running in opposite directions and being of different pitches, a sliding head working upon said bar, provided with an opening into which the remaining end of said shaft threads, a washer working upon said shaft and interposed between said sliding head and second-mentioned striding perforated member, and a square nut loosely working upon said shaft between said striding members, said nut sliding upon said rectangular bar, all arranged in the manner set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES H. NOYES.

Witnesses:

CHARLES E. BARLOW,
BERTHA A. BARLOW.