

No. 719,845.

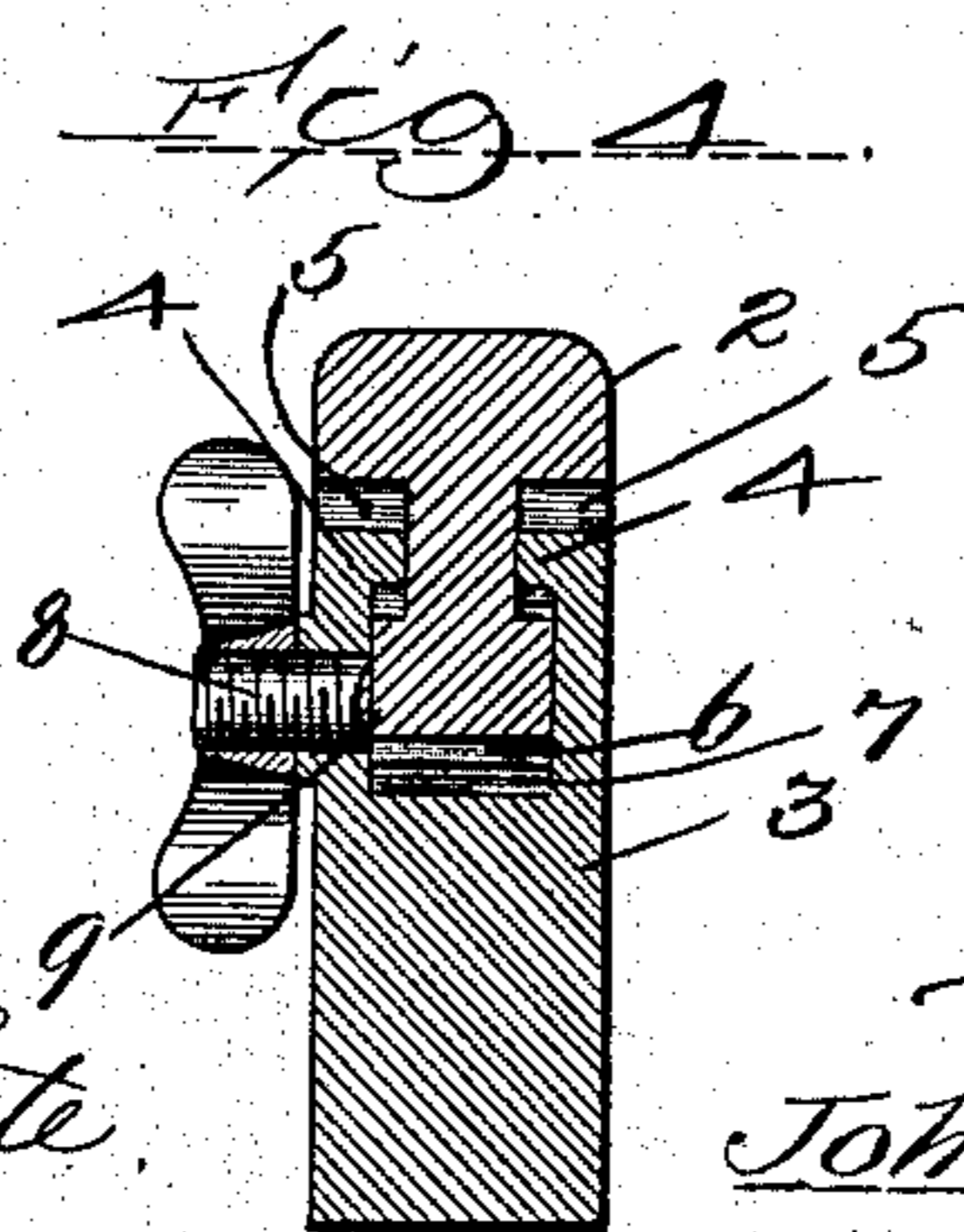
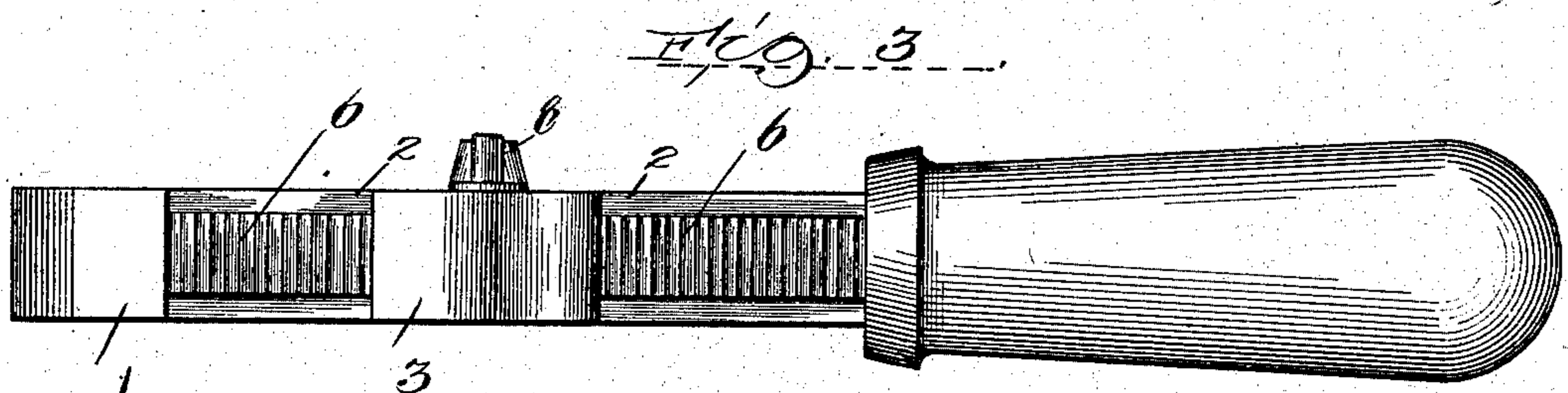
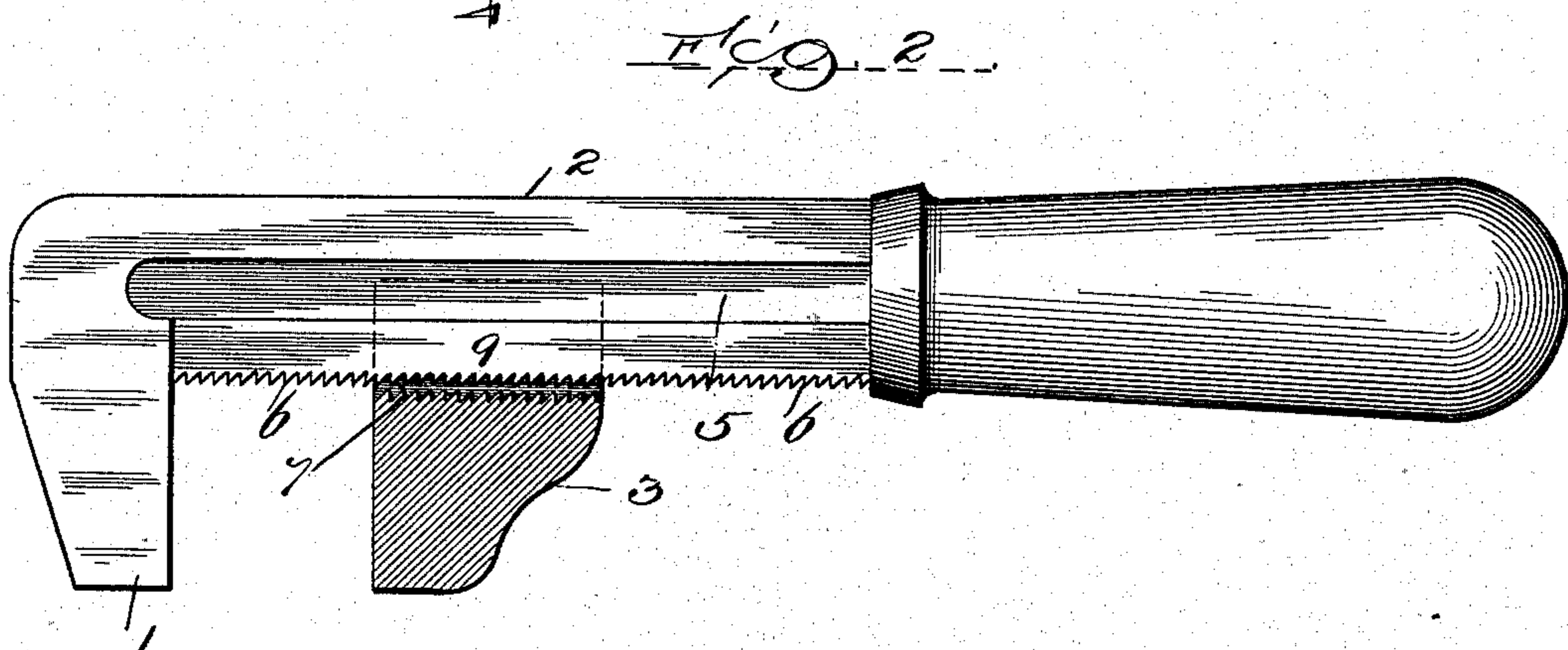
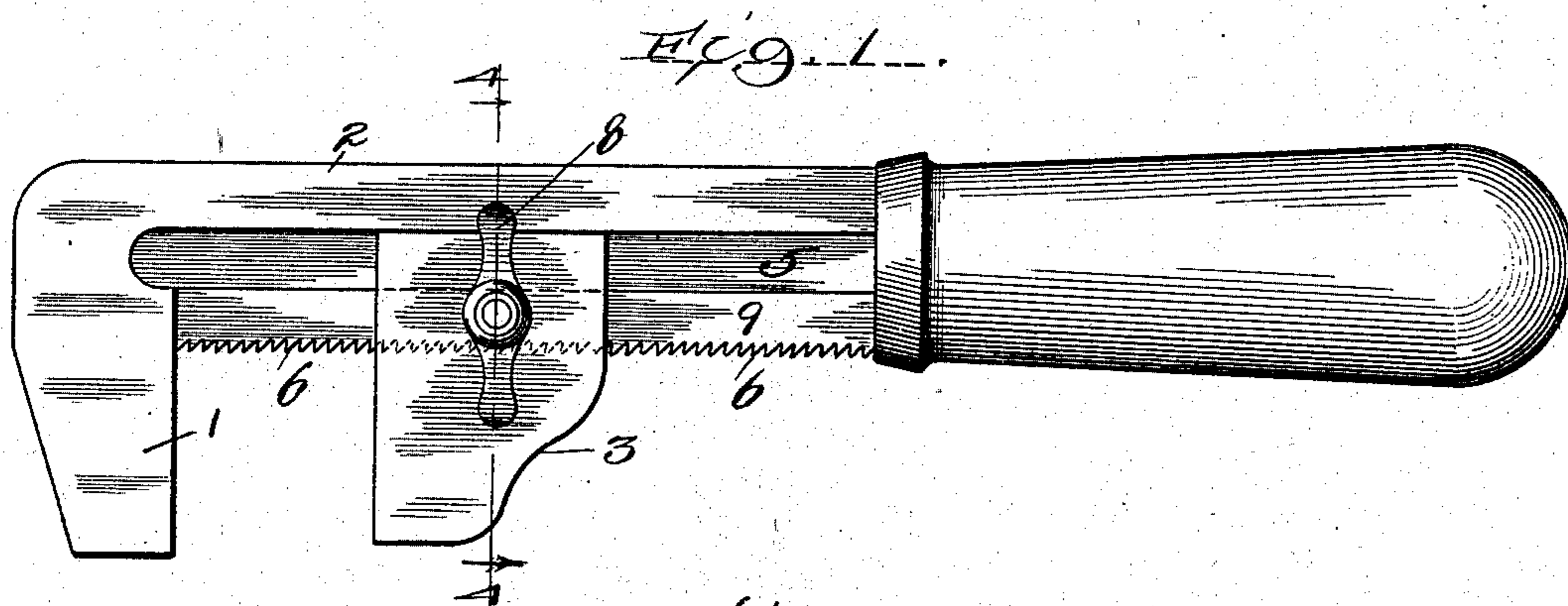
PATENTED FEB. 3, 1903.

J. T. NEELY.

WRENCH.

APPLICATION FILED JUNE 16, 1902.

NO MODEL.



Witnesses:

Harry B. White.
Ray White.

Inventor:

John Thompson Neely

By Jone's Bain

UNITED STATES PATENT OFFICE.

JOHN THOMPSON NEELY, OF PORTSMOUTH, VIRGINIA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 719,845, dated February 3, 1903.

Application filed June 16, 1902. Serial No. 111,887. (No model.)

To all whom it may concern:

Be it known that I, JOHN THOMPSON NEELY, of Portsmouth, in the county of Norfolk and State of Virginia, have invented certain new and useful Improvements in Wrenches; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in wrenches.

The chief object of my improvements is to provide means for positively locking the moving jaw in place.

A further object is to provide a means whereby the moving jaw may be quickly shifted, positively fastened in position, and whereby the tension applied when in use between the stationary and movable jaws tends to hold the movable jaw more firmly in position.

The invention consists in the novel construction, arrangement, and combination of parts, as will be hereinafter described, and particularly pointed out in the appended claim.

In the drawings, Figure 1 is a perspective view of the improved wrench with the movable jaw in place. Fig. 2 is a similar view showing the movable jaw in section and in a position to be freely moved and adjusted with reference to the stationary jaw. Fig. 3 is a perspective view of the improved wrench looking at it from one side. Fig. 4 is a transverse section through line 4 4 of Fig. 1.

In all of the views the same reference-numerals indicate similar parts.

The fixed rigid jaw 1 is preferably made integral with the shank 2. The jaw 3 is adapted to be freely moved along the shank 2. It is provided with inwardly-projecting parts 4 4, which enter grooves 5 5, made on opposite sides of the said shank. The lower surface of the shank is provided with forwardly-projecting teeth or serrations 6 6. The opposing surface of the movable jaw 3 is also provided with teeth 7 7 of a similar nature, but which incline in the opposite direction. The teeth 7 7 are adapted to engage the teeth 6 6. One side of the jaw 3 is provided with a threaded hole, into which a winged screw 8 is adapted to enter. The inward end of said screw bears against the side surface 9 of the shank 2.

The use and operation of my device are as

follows: Fig. 1 shows the wrench in operative position. When it is desirable to shift the jaw 3 along the shank 2, the screw 8 is loosened, when the jaw 3 will drop down until the projections 4 4 rest upon the lower surfaces of the grooves 5 5, so that the teeth 6 6 and 7 7 become disengaged, when the jaws will be loosely held in position by the projections 4 4 entering the grooves 5 5. Then the jaw 3 may be shifted to any desired position along the shank and raised until the teeth 6 6 of the shank 2 and the teeth 7 7 of the jaw 3 will engage in the manner shown in Fig. 1, when the screw 8 may be tightened. The friction of the end of the screw upon the surface 9 of the shank tends to hold the jaw in this position. When in use, the pressure that may be exerted between the jaws 1 and 3 will more tightly force the teeth 6 6 and 7 7 together, and thereby there is provided a firm positive engagement of the jaw 3 with the shank 2.

While I have shown my invention applied to a bolt or nut wrench, it is quite evident that the same features may be used in connection with a pipe-wrench or other wrenches.

The jaw 3 may be quickly disengaged and shifted to a new position along the shank 2 and held in place by means of the frictional contact of the screw 8 with the surface of any part of the said shank.

Having described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In a wrench, the combination of a shank grooved on opposite sides and serrated on one edge, a fixed jaw secured to said shank to project from the serrated edge, a movable jaw having serrations opposed to those of the shank, and provided with extensions arranged to overlie the sides of the shank, and loosely engage in the grooves therein, whereby said jaw is adapted for lateral movement to disengage its serrations from the shank, and an adjustable thumb-screw threaded through the movable jaw adapted to bear upon the side of the shank.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN THOMPSON NEELY.

Witnesses:

A. ARSÈNE GIRAULT,
LEWIS W. WEBB.