

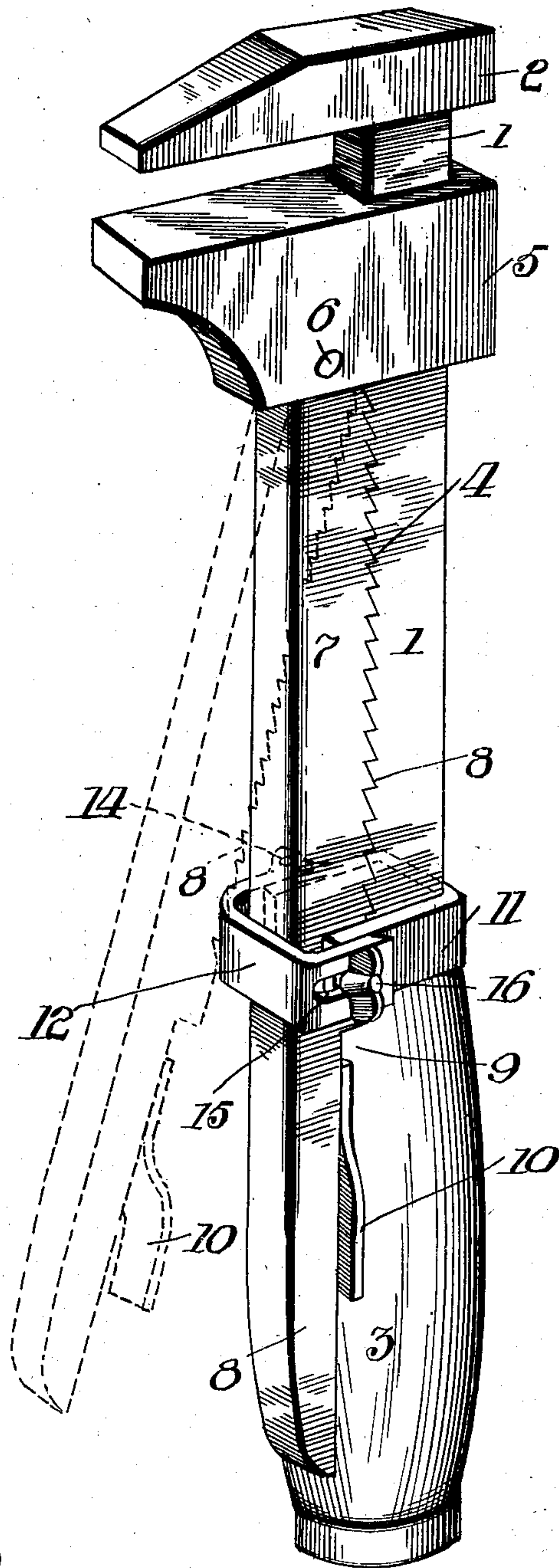
No. 742,043.

PATENTED OCT. 20, 1903

J. LITSCHGE.
WRENCH.

APPLICATION FILED JULY 1, 1903.

NO MODEL.



Witnesses,
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UNITED STATES PATENT OFFICE.

JOSEPH LITSCHGE, OF PITTSBURG, PENNSYLVANIA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 742,043, dated October 20, 1903.

Application filed July 1, 1903. Serial No. 163,890. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH LITSCHGE, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to certain new and useful improvements in wrenches, and has for its object the provision of novel means whereby the movable jaw of the wrench may be easily, quickly, and effectually adjusted to
15 any desired position upon the shank.

Another object of my invention is to provide a wrench which will be extremely simple in construction, strong and durable, and comparatively inexpensive to manufacture,
20 means being provided upon said wrench to lock the adjustable jaw in any desired position thereon.

Briefly described, my invention comprises a wrench having a shank, a fixed head and
25 handle which are of the ordinary type, and upon the shank of the wrench I provide a movable jaw which carries an auxiliary shank having teeth corresponding with the teeth formed in the shank of the wrench,
30 means being provided upon the auxiliary shank to normally hold the same out of engagement with the teeth of the shank proper and means being provided adjacent to the handle of the wrench for holding the auxiliary shank in a locked position.

In describing the invention in detail reference is had to the accompanying drawing, forming a part of this specification, and wherein like numerals of reference indicate
40 like parts in the view, which shows a perspective view of my improved wrench.

In carrying out my invention I provide a wrench which consists of the ordinary shank 1, having a fixed jaw 2 upon its upper end,
45 while secured upon its lower end is the ordinary handle 3. The shank 1 has formed in its one side teeth 4, and adapted to be slidably mounted upon this shank is the jaw 5. In the lower face of this jaw is pivoted by
50 means of a pin 6 the lever or auxiliary shank 7, which has teeth 8, corresponding to the

teeth 4 of the shank 1. The lower end of this lever is cut away, as indicated at 9, and adapted to be secured upon said cut-away portion is the band-spring 10. This spring is
55 adapted to rest against the handle 3 when the lever is in engagement with the shank 1, and when the lever is not held or locked in this position the spring is adapted to disengage the lever from the shank 1, as shown in dotted lines in the illustration.

Secured to the shank of the wrench by means of the band 11, which serves as a ferrule for the handle 3, I pivot a locking means, which consists of the U-shaped band 12, which
65 is pivoted to the band 11, as indicated at 14, and formed in the other end of the band is a slot 15. Upon the band 11 is provided a turn-screw 16, and when the lever 7 is in position shown in the illustration this band 12 is
70 adapted to be locked by the turn-screw 16, which is adapted to pass through slot 15 and then be slightly rotated until the wings of the screw engage the faces forming the slot, when the same will be securely locked, where-
75 by the disengagement of the lever 7 is prevented.

It will be noted that I may employ any desired locking means to normally hold the lever 7 in engagement with the shank 1, and
80 when the wrench is in continual use this locking means may be thrown aside until it is desired to use the same. It will be readily apparent that by the construction of this lever and the disengaging means the same may be
85 quickly operated and the sliding jaw readily adjusted to any desired position upon the shank of the wrench.

While I have herein shown and described a practical embodiment of my invention, it
90 will be obvious that various slight changes may be made in the details of construction without departing from the general spirit of my invention.

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

A wrench comprising a shank, a head secured on one end of the shank, a handle secured on the other end of said shank, teeth
100 formed in the side of said shank, a jaw adapted to be slidably mounted on said shank, a lever

pivoted within said jaw, teeth formed in the side of said lever corresponding to the teeth formed in the shank of the wrench, said lever being cut away, a spring mounted within said
5 cut-away portion and adapted to normally hold the lever out of engagement with the shank of the wrench, means carried by the shank of the wrench for normally holding

said lever in engagement with the shank, substantially as described. 10

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

JOSEPH LITSCHGE.

Witnesses:

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