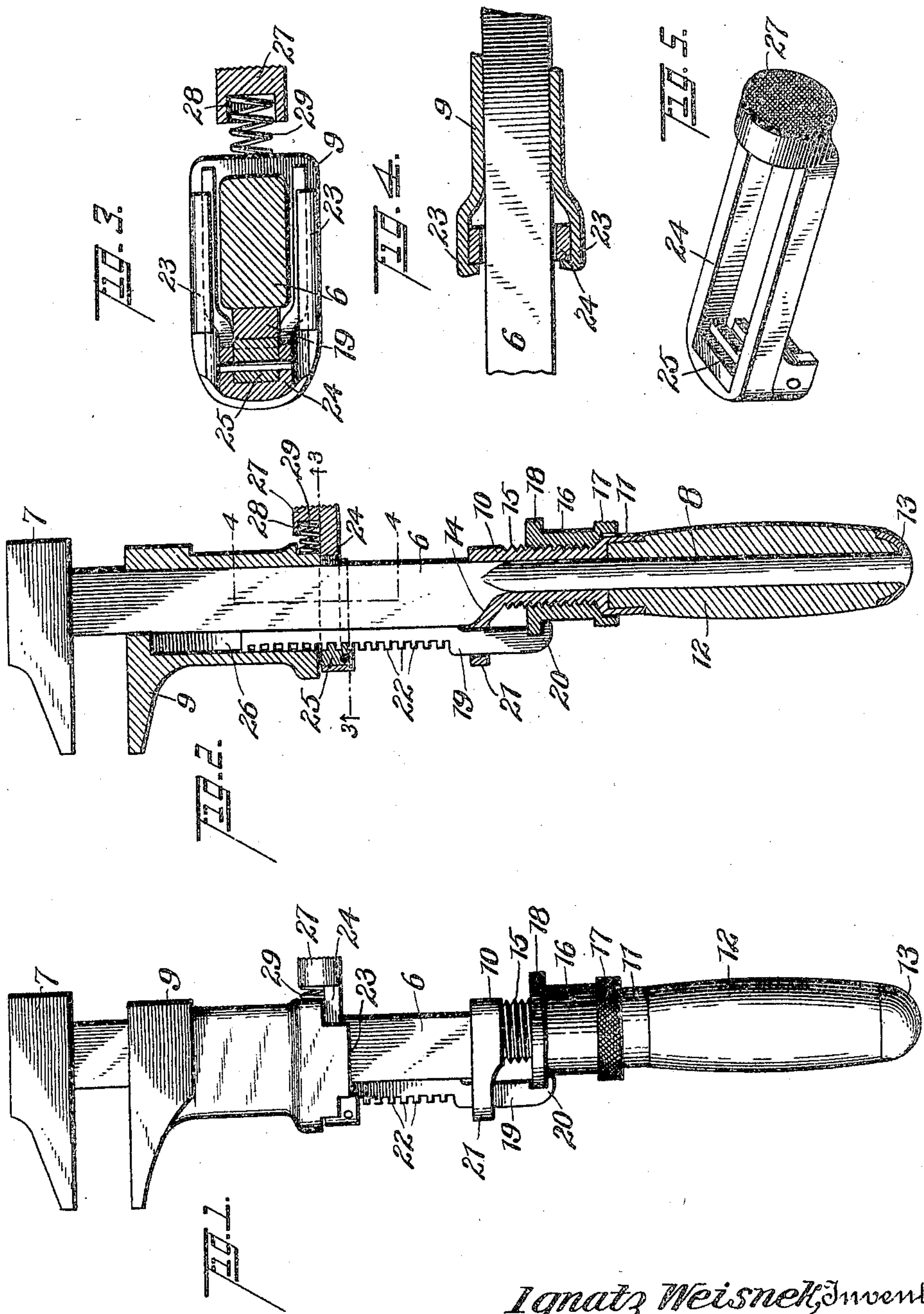


No. 812,538.

PATENTED FEB. 13, 1906.

I. WEISNEK.
WRENCH.

APPLICATION FILED JUNE 19, 1906.



Witnesses
W. C. Lyddane
B. J. Foster

Ignatz Weisnek, Inventor
By *E. J. Figgis*
Attorney

UNITED STATES PATENT OFFICE.

IGNATZ WEISNEK, OF MINDENMINES, MISSOURI, ASSIGNOR OF ONE-
FOURTH TO HARRY EVANS, OF BURDINE, PENNSYLVANIA.

WRENCH.

No. 812,538.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed June 19, 1905. Serial No. 265,979.

To all whom it may concern:

Be it known that I, IGNATZ WEISNEK, a citizen of the United States, residing at Mindenmines, in the county of Barton and State of Missouri, have invented a new and useful Wrench, of which the following is a specification.

This invention relates to improvements in wrenches of the type disclosed in a patent granted to me on June 14, 1904, and numbered 762,784.

The object is to provide a simple structure of a novel nature for effecting the quick general adjustment and afterward a finer adjustment of the movable jaw of the wrench, said structure comprising simple parts that can be readily assembled, easily operated, and are not liable to derangement.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a side elevation of the improved wrench. Fig. 2 is a longitudinal sectional view therethrough. Fig. 3 is a cross-sectional view on the line 3 3 of Fig. 2. Fig. 4 is a detail longitudinal sectional view on the line 4 4 of Fig. 2. Fig. 5 is a detail perspective view of the clutch-yoke.

Similar reference-numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated a stock 6 is employed, having a stationary jaw 7 at one end and a longitudinally-disposed shank 8 at the other end. Upon the stock is slidably mounted a jaw 9, that is movable toward and from the stationary jaw.

Fitted upon the shank 8 and overlapping the juncture of the same with the stock 6 is a sleeve 10, the rear end of which is in the form of a collar 11, that receives the adjacent end portion of a handle-grip 12, fitted upon the shank 8 and held in place by a suitable cap-piece 13. The sleeve 10 is provided with an enlarged socket portion 14, that receives the adjacent end of the stock, so that said sleeve is held against rotation on the stock. Threads 15 are formed upon the exterior face of the sleeve, and screwed upon the same is an adjusting-nut 16, provided at one end with a knurled flange 17 and at the other end with an outstanding annular flange 18. A rack-bar 19, located longitudinally along one side of the stock, is provided with a hook end 20,

that interlocks with the flange 18 and permits the rotation thereof, said rack-bar being slidable in a guide-ear 21, carried by one end of the sleeve 10 and being provided with a series of teeth 22.

The rear end of the sliding jaw 9 is provided on opposite sides of the stock 6 with in-turned guide-flanges 23, forming guideways, in which is slidably mounted the side members of a clutch-yoke 24, that embraces the stock and is slidable transversely thereof. Said clutch-yoke also embraces the rack-bar and carries a toothed section 25, that is arranged to interlock with the teeth 22 of the rack-bar, one end of said rack-bar being received in a socket 26 in the sliding jaw. The end of the yoke opposite that carrying the toothed section 25 is in the form of an actuating-head 27, which has a portion offset at one side of the yoke, said offset portion overlying the rear side of the movable jaw and provided with a seat 28 to receive a coiled spring 29, interposed between the head and jaw.

In adjusting the sliding jaw 9 if there is to be a considerable movement of the same the yoke is pressed so that the teeth carried thereby will be disengaged from the teeth 22 of the rack-bar, whereupon the jaw can be moved to substantially the position desired. Then if a finer adjustment is necessary the nut 16 is rotated in one direction or the other, and consequently the rack-bar 19 will be moved longitudinally of the stock, carrying the sliding jaw with it. In this structure it will be apparent that the parts are simple, that the device is easily operable, and that said parts can be readily assembled, yet are not liable to derangement.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. In a wrench, the combination with a stock having a jaw, of another jaw slidable on the stock, means mounted on the stock

for adjusting the jaw, said means including a rack, a yoke slidably surrounding the stock and disposed transversely thereof at one end of the sliding jaw, said yoke also surrounding
5 the rack and having an interlocking engagement therewith at one end, the other end of said yoke having a portion offset at one side of the yoke and overlying the jaw constituting an operating-head, the opposed portions
10 of the head and jaw having seats, a spring interposed between said offset portion or head and the sliding jaw, and engaged in the seats, and intumed guide-flanges carried by the adjacent end of the sliding jaw and embracing
15 the yoke, said yoke sliding between said flanges and the adjacent jaw.

2. In a wrench, the combination with a stock having a jaw at one end and a shank at the other end of less cross-sectional area than

the stock, of another jaw slidably mounted 20 upon the stock, a sleeve mounted on the shank and having threads on its exterior face, said sleeve having a socket at one end that receives the adjacent end of the stock, a handle-grip mounted on the shank and having 25 one end fitted in the sleeve, said grip and stock holding the sleeve against longitudinal movement on the shank, and the stock preventing the turning movement of said sleeve, an adjusting-nut threaded on the sleeve, and 30 connections between the nut and sliding jaw.

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

IGNATZ WEISNEK.

Witnesses:

THOMAS WALKER,
JULE TESCHE.