

No. 714,741.

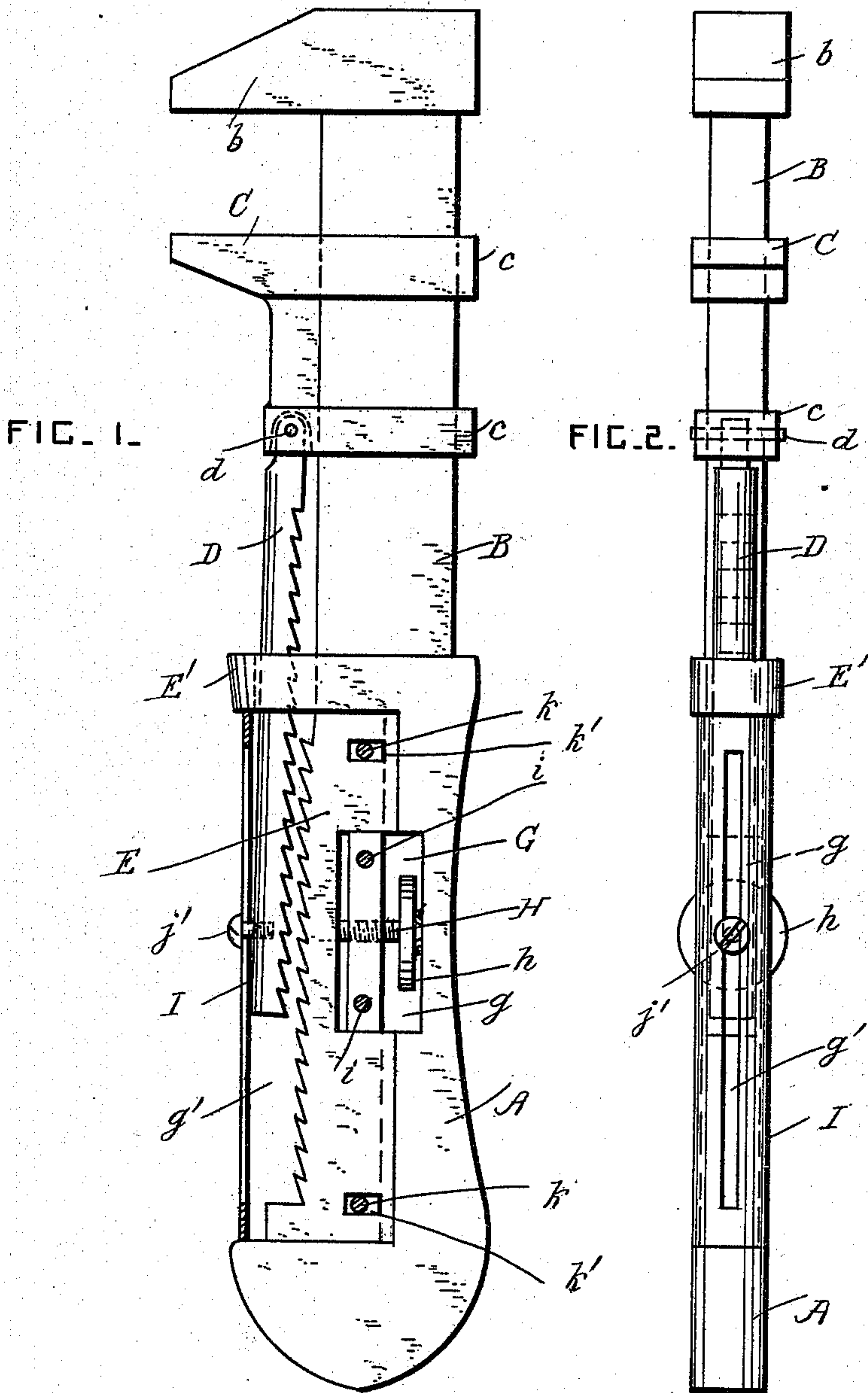
Patented Dec. 2, 1902.

J. J. QUINLAN.

WRENCH.

(Application filed Mar. 22, 1902.)

(No Model.)



WITNESSES  
Walter Allen  
James M. Spear

INVENTOR  
John J. Quinlan.  
by Herbert W. Jenner.  
Attorney



# UNITED STATES PATENT OFFICE.

JOHN J. QUINLAN, OF BOSTON, MASSACHUSETTS.

## WRENCH.

SPECIFICATION forming part of Letters Patent No. 714,741, dated December 2, 1902.

Application filed March 22, 1902. Serial No. 99,441. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN J. QUINLAN, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to wrenches; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a front view of the wrench, partly in section. Fig 2 is a side view of the wrench.

A is the handle of the wrench, which forms a portion of the shank B, which has a stationary jaw *b* at its end.

C is the slidable jaw, provided with sockets *c*, which slide over the shank B.

D is a serrated bar, which is pivoted to the jaw C by a pin *d* and which slides with the jaw C in a guide-band *E'*, secured to the handle.

E is a toothed rack on the handle for engaging with the serrated bar D.

G is a chamber formed through the middle part of the handle A, and *g* is a block which is slidable in the chamber G.

H is a screw-threaded spindle, which is arranged in the chamber G and which engages with the block *g*. A wheel or disk *h* is secured on the spindle H and projects from the sides of the chamber, so that the screw can be revolved with the thumb and fingers. The ends of the spindle or screw bear against the ends of the chamber, so that the block is slid in the chamber when the screw is revolved.

I is a cover-plate, which is bent to the form of a loop. This cover-plate extends around the back of the bar D and is secured to the block *g* by screws or pins *i*. The sides of the cover-plate are let into recesses in the handle, so that they are flush with it. A slot *g'* is formed longitudinally in the looped portion of the cover-plate behind the bar D, and

*j'* is a screw which engages with the bar D and which slides in the slot *g'*. This screw *j'* forms a connection between the cover-plate and the bar D. Pins *k* are also used to secure together the side portions of the cover-plate beyond the chamber C, and *k'* indicates lateral slots in the handle for the pins to pass through. When the screw is screwed up, the serrated bar is placed in engagement with the toothed rack, so that the slidable jaw is locked to the shank. When the screw is revolved, so as to push the block toward the toothed rack, the cover-plate moves the serrated bar out of engagement with the toothed rack and permits the slidable jaw to be slid upon the shank to suit any nut, pipe, or other object which is to be gripped by the jaws.

What I claim is—

1. In a wrench, the combination, with a shank having a chamber in its handle, a stationary jaw at one end, and a toothed rack on one side; of a slidable jaw, a serrated bar pivoted to the slidable jaw, a block slidable in the said chamber, a screw for sliding the said block, and a looped cover-plate secured to the said block and operatively connected with the said bar, whereby the said bar is moved into and out of engagement with the toothed rack when the said screw is revolved, substantially as set forth.

2. In a wrench, the combination, with a shank having a chamber in its handle, a stationary jaw at one end, and a toothed rack on its side; of a slidable jaw, a serrated bar pivoted to the slidable jaw, a block slidable in the said chamber, a screw for sliding the said block, a looped cover-plate provided with a longitudinal slot in its looped portion, and a connection between the said cover-plate and bar which slides in the said slot, substantially as set forth.

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

JOHN J. QUINLAN.

Witnesses:

ALICE J. MURRAY,  
FRED. K. DAGGETT.