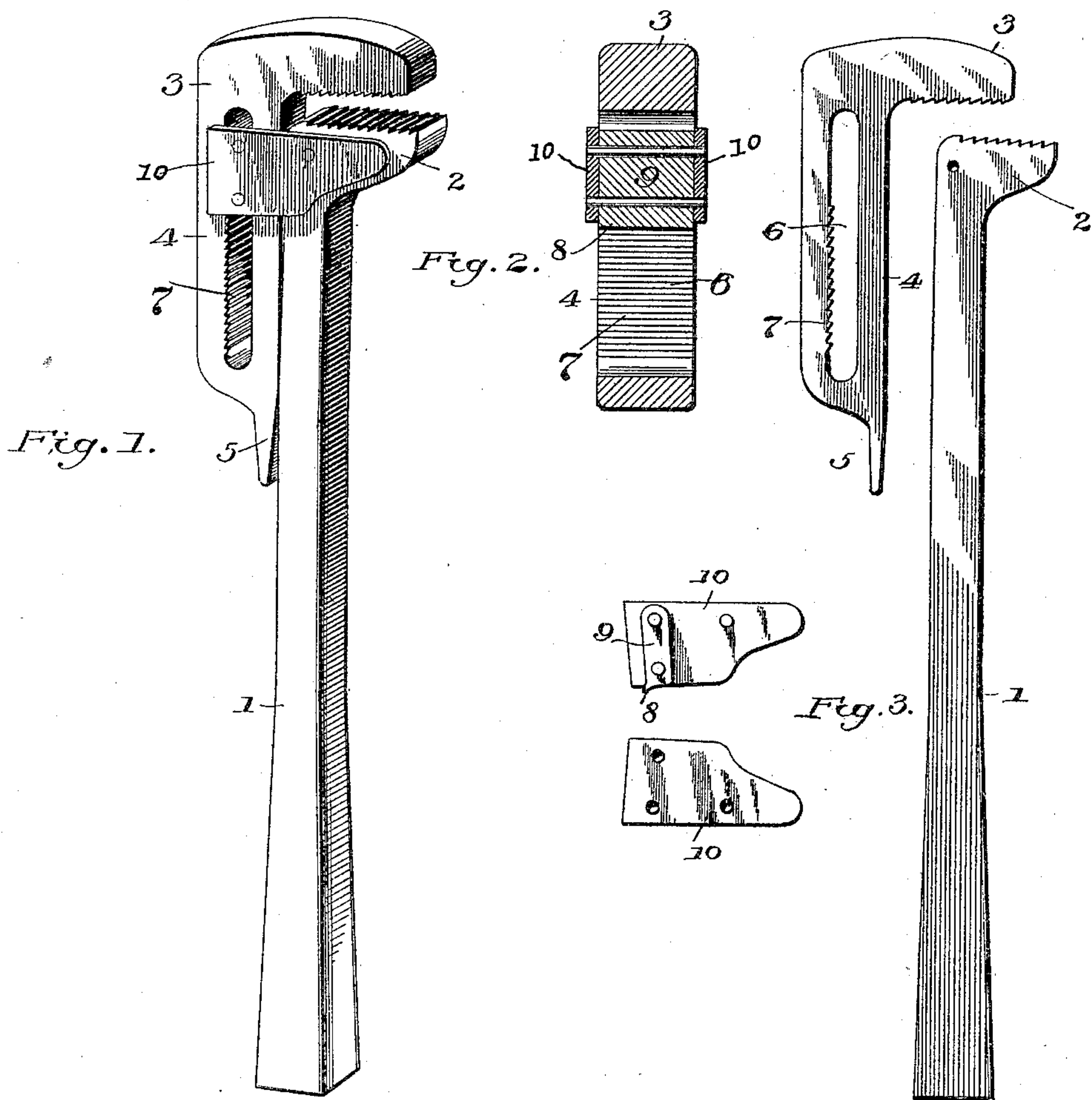


(No Model.)

T. J. DUNCAN & D. McMANUS.
PIPE WRENCH.

No. 446,592.

Patented Feb. 17, 1891.



Witnesses:
W. H. Mortimer
C. S. Hoyer

Thomas J. Duncan,
Dennis McManus,
Inventors

By J. W. Moore
Attorney.

UNITED STATES PATENT OFFICE.

THOMAS JEFFERSON DUNCAN AND DENNIS McMANUS, OF LEADVILLE,
COLORADO.

PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 446,592, dated February 17, 1891.

Application filed July 1, 1890. Serial No. 357,339. (No model.)

To all whom it may concern:

Be it known that we, THOMAS JEFFERSON DUNCAN and DENNIS McMANUS, citizens of the United States, residing at Leadville, in the county of Lake and State of Colorado, have invented certain new and useful Improvements in Pipe-Wrenches; and we do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in pipe-wrenches; and one of the objects of our invention is the provision of a pipe-wrench which can be quickly operated to grasp pipes of any size and which will firmly engage the pipe and insure an easy turning thereof.

A further object of our invention is the provision of a wrench which will comprise few parts, thereby rendering the wrench strong and durable, and which will be comparatively light in weight and thoroughly efficient for the intended purpose.

A further object of our invention is the provision of a wrench which, in addition to being simple, durable, and efficient, can be manufactured at a very low price.

In order that the construction, operation, and advantages of our improved wrench may be readily understood and appreciated, we invite attention to the accompanying drawings, in which—

Figure 1 represents a perspective view of a wrench constructed in accordance with and embodying our invention. Fig. 2 represents a vertical sectional view thereof. Fig. 3 represents a view of the different parts of the wrench detached.

Referring by numerals to the drawings, the numeral 1 designates the handle of our improved wrench, of any desired size and shape and having the stationary jaw 2 of the wrench.

The numeral 3 designates the movable jaw of the wrench, formed with the depending arm 4, provided with a handle 5 at its lower end to facilitate the operation of said movable jaw, as will appear. The depending arm 4 is provided with a vertical slot 6, one of the side

walls of which is provided with teeth or serrations forming a rack 7, with which engages the lower pointed end 8 of the dog, detent, or pawl 9, secured to the plates 10 rigidly, and said plates are pivoted to the stationary jaw of the wrench. It will be seen that the stationary jaw extends outward from the handle in a horizontal line, and also that the movable jaw is horizontally arranged with relation to the vertical arm thereof, whereby when the parts are in operative position the arm of the movable jaw and handle of the wrench have their inner faces contacting and the movable jaw slides upward against the handle. The plates 10 are hinged to the stationary jaw and by means of the dog fitting in the slot of the arm connect the stationary and movable jaws, and when it is desired to adjust the movable jaw it is moved up or down, and the point of the dog engages the rack to retain the jaw at the proper place, as will be readily understood.

It will be apparent to all acquainted with such matters that our wrench possesses all the desired features of merit in a device of this character to commend it as thoroughly practical, and hence no further comment is necessary herein.

We claim as our invention—

1. A pipe-wrench consisting of a handle having an integral horizontally-disposed jaw, a horizontally-disposed movable jaw having a vertical arm normally sliding against or adjacent to the handle, a slot in said arm having a rack formed in one wall thereof, plates embracing the movable arm and stationary jaw and pivoted to the said jaw, and a dog carried by the plates engaging the rack.

2. A pipe-wrench consisting of the handle having a horizontal jaw, a movable jaw formed with a slotted arm, plates pivoted to the stationary jaw, and a dog carried by the plates fitting in the slot of the arm connecting the movable and stationary jaw and retaining the parts in adjusted positions.

In testimony whereof we affix our signatures in presence of two witnesses.

THOMAS JEFFERSON DUNCAN,
DENNIS McMANUS.

Witnesses:

JOHN LAW,
JOSEPH S. JONES.