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928,150.

Patented July 13, 1909.

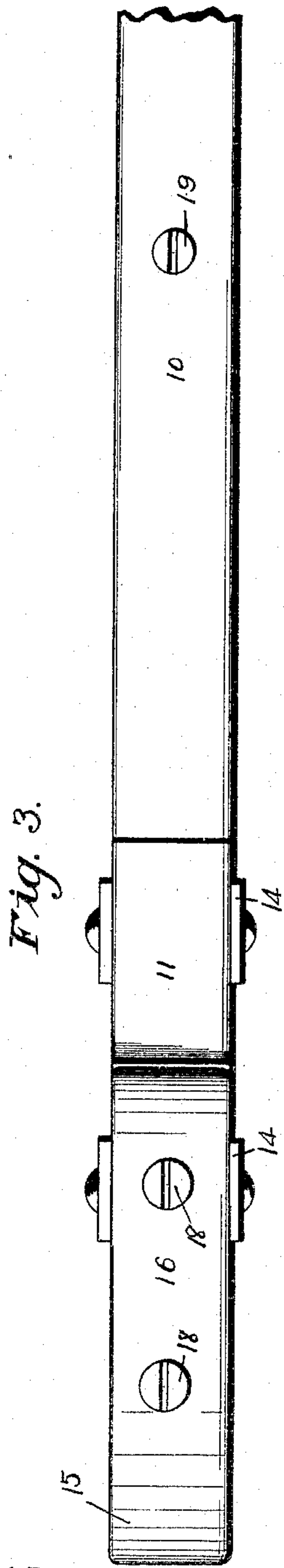


Fig. 3.

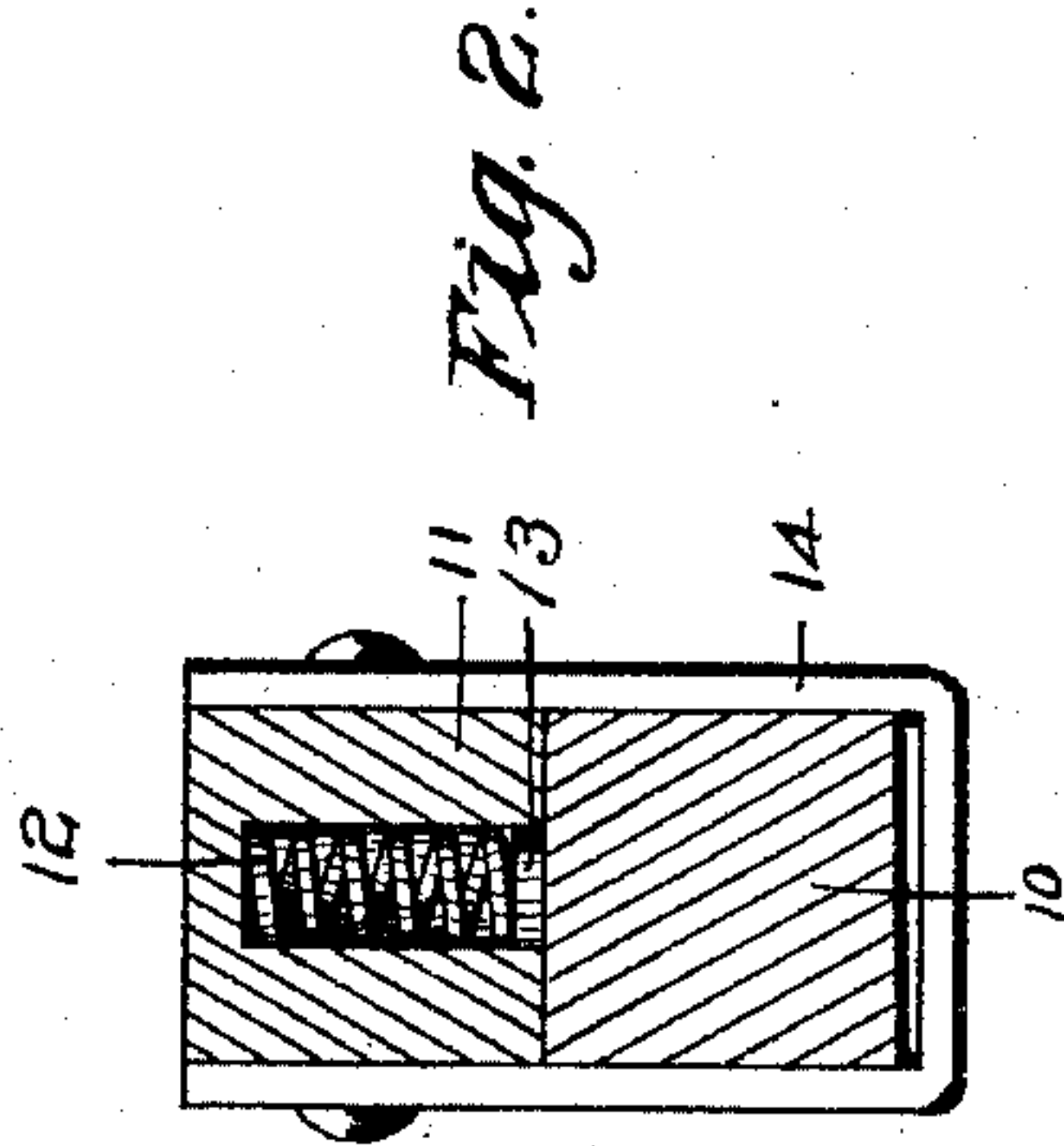


Fig. 2.

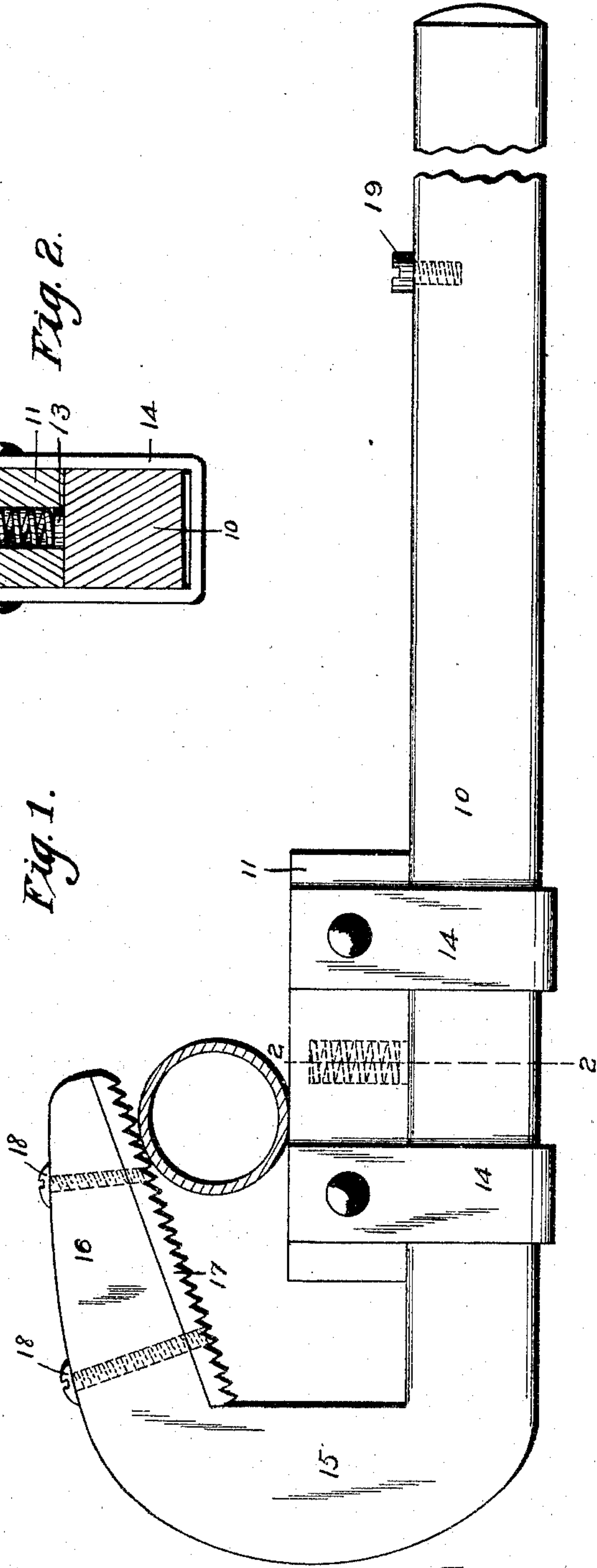


Fig. 1.

Witnesses.
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UNITED STATES PATENT OFFICE.

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PIPE-WRENCH.

No. 928,150.

Specification of Letters Patent.

Patented July 13, 1909.

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To all whom it may concern:

Be it known that I, EDWARD M. PETERSON, a citizen of the United States, residing at Forest City, in the county of Winnebago and State of Iowa, have invented a certain new and useful Pipe-Wrench, of which the following is a specification.

The object of my invention is to provide a pipe wrench of simple, durable and inexpensive construction, having a stationary jaw arranged at an acute angle relative to the handle, and a movable jaw slidably mounted on the handle and parallel with it, to co-act with the stationary jaw in gripping a pipe, said movable jaw being also provided with a spring by which it is frictionally held upon the handle in any position in which it may be placed, and is yet capable of slight movement on the handle, such as is necessary in gripping and releasing from a pipe.

My invention consists in the construction, arrangement and combination of the various parts of the device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 shows a side elevation of a wrench embodying my invention, with a portion of a pipe in position between the jaws thereof. Fig. 2 shows a sectional view on the line 2—2 of Fig. 1, and—Fig. 3 shows an edge view of the complete wrench embodying my invention.

Referring to the accompanying drawings, I have used the reference numeral 10 to indicate the handle portion of the wrench, which is preferably rectangular in cross section. Slidably mounted upon this handle is a movable jaw comprising a rectangular block 11, having a recess therein, in which is contained an extensible coil spring 12 and a sliding disk 13, said spring tending to yieldingly hold the disk in frictional engagement with the adjacent side of the handle. The said jaw is held to the handle by means of two metal straps 14 secured to the jaw, and arranged to encircle the handle.

At the end of the handle is a head 15 extended at right angles to the handle, and a jaw portion 16 arranged at an acute angle relative to the handle and projecting back-

wardly toward the opposite end of the handle.

Connected with the inner face of the jaw 16 is a toothed plate 17 detachably held in position by means of screws 18. Mounted in the handle 10 is a limiting screw 19 to be engaged by the jaw 11.

In practical use, the wrench is placed on a pipe in the manner shown in Fig. 1, then when the handle is turned in one direction, the toothed plate 17 will slide over the pipe in the same manner as the ordinary pipe wrench. The spring 12 serves a very important function in connection with the use of my wrench. For instance, when turning the handle of the wrench in one direction, the teeth on the plate 17 will grip the pipe and force the jaw 11 against its spring pressure toward the handle 10, until all of the parts firmly bind, and a further movement of the handle will result in turning the pipe. Then when the handle is turned in the other direction, the toothed plate 17 will slide over the pipe and the spring 12 will force the jaw 11 away from the handle, this movement of the jaw 11 toward and from the handle being essential in connection with a pipe wrench which is designed to grip the pipe when the handle is turned in one direction, and to release it when the handle is turned in the other direction.

The spring performs the further or double function of adjustably securing the jaw 11 to any position on the handle in which it may be placed, and it may be adjusted quickly and easily without manipulating any screws or adjusting devices.

I claim as my invention:

1. An improved pipe wrench comprising a handle, a stationary jaw on the handle extended backwardly in the direction of the handle, and at an acute angle relative thereto, a jaw mounted on the handle and capable of limited movement toward and from the handle, to co-act with the first mentioned jaw in gripping a pipe, and a spring arranged to yieldingly hold the last mentioned jaw away from the handle.

2. An improved pipe wrench comprising a rectangular handle, an integral jaw thereon extended backwardly in the direction of the handle, and at an acute angle relative thereto, a toothed plate detachably connected

with said jaw, and a straight jaw having a spring opening therein and also having straps fixed to the jaw and arranged to encircle the handle, to slidingly connect the jaw with the handle, and to permit the jaw to move slightly toward and from the handle, an extensible spring in said opening in the jaw, and a disk engaged by the spring and held thereby in engagement with the handle, substantially as and for the purposes stated. 10

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Witnesses:

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