

A. O. SEMSMON.

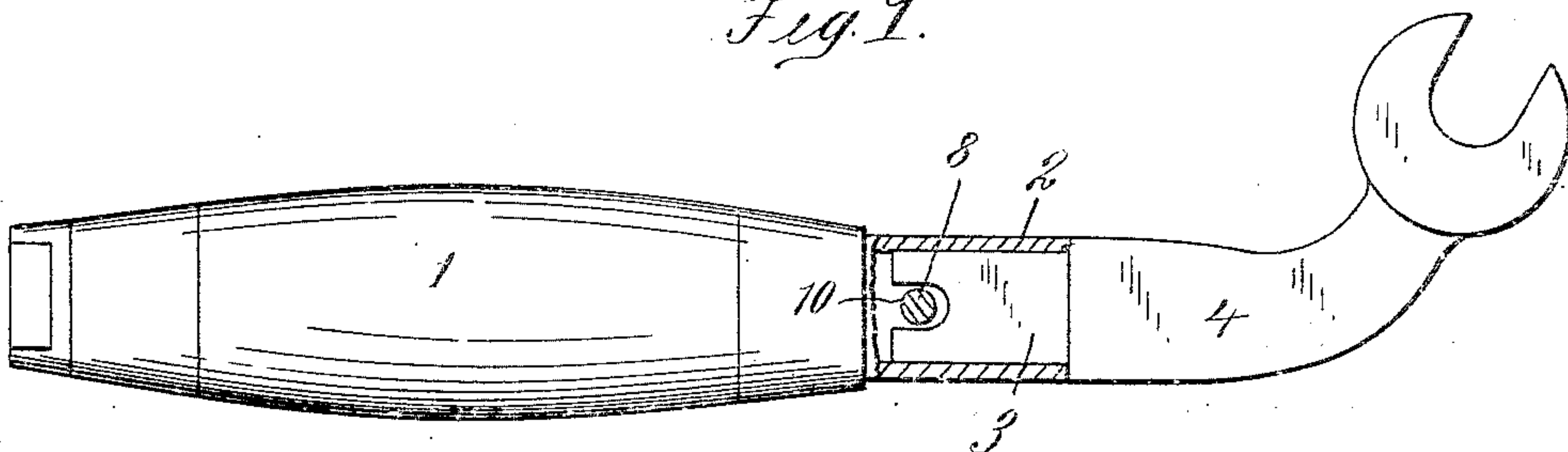
WRENCH.

APPLICATION FILED AUG. 30, 1909.

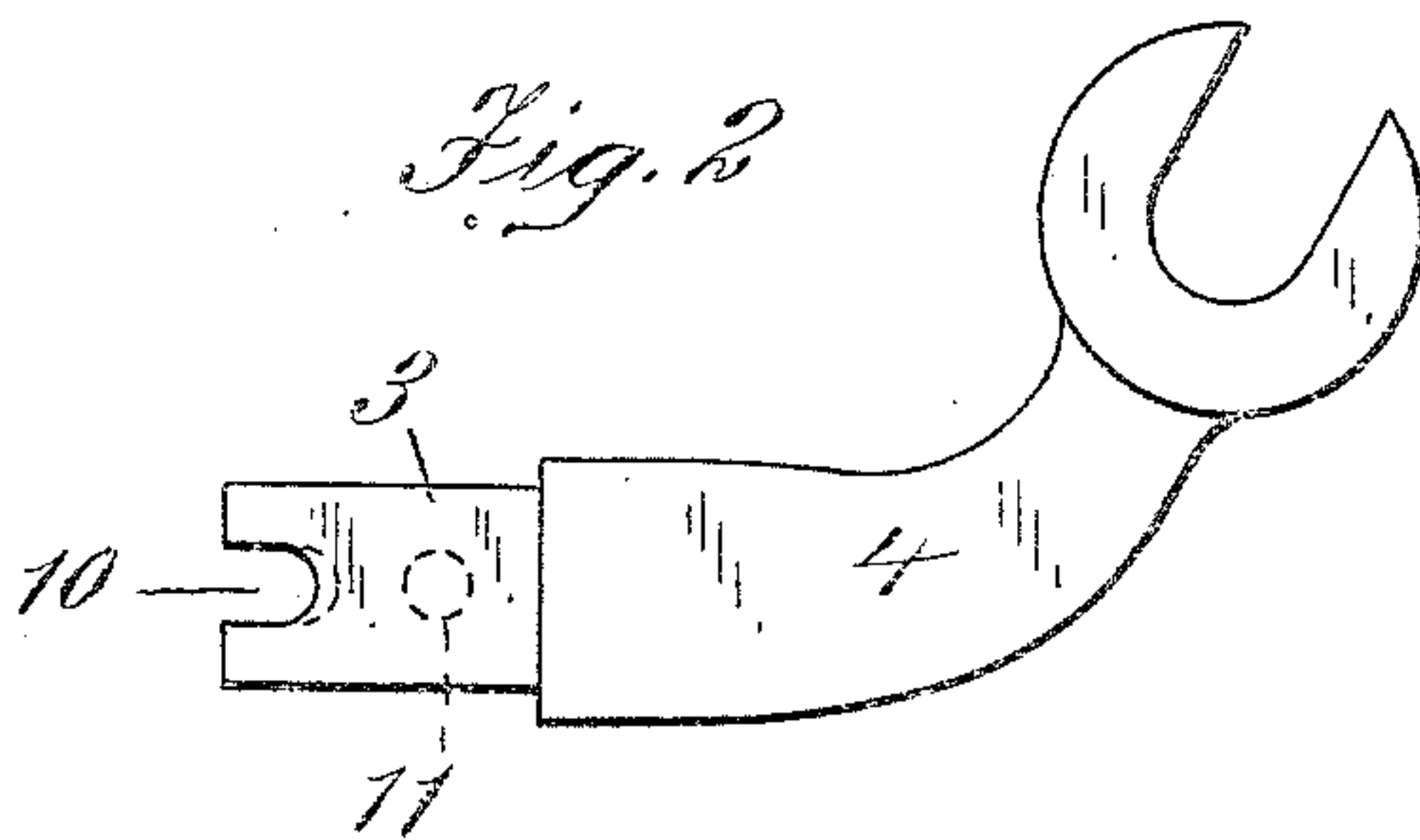
956,197.

Patented Apr. 26, 1910.

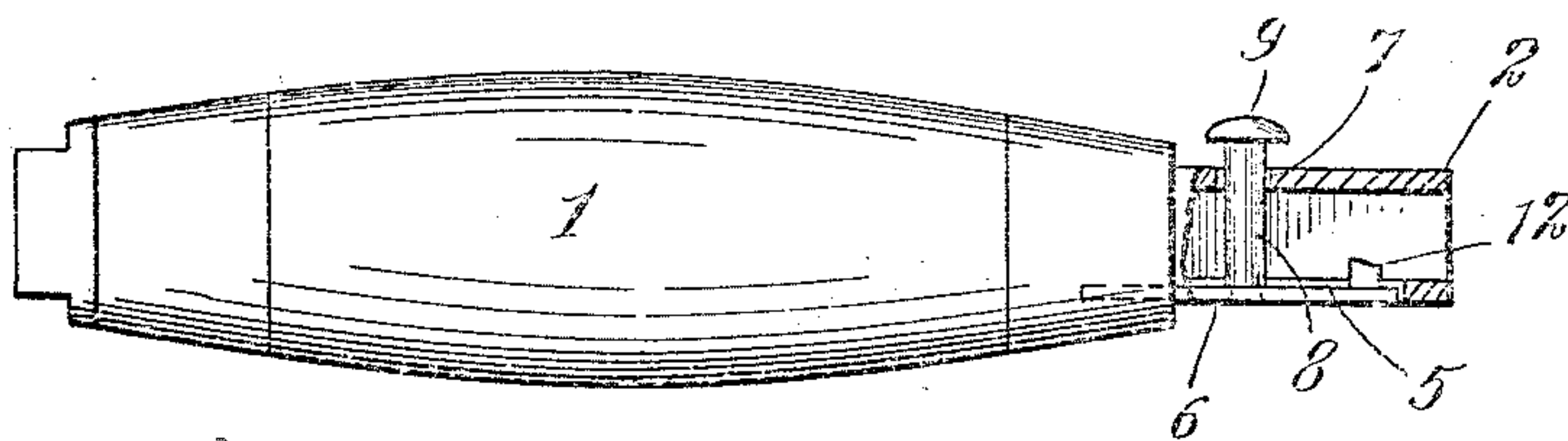
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

*D. W. M. deke.*  
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334

Inventor

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# UNITED STATES PATENT OFFICE.

ANDREW OLSEN SEMSMON, OF EVERETT, WASHINGTON, ASSIGNOR OF THREE-FOURTHS  
TO W. J. LAMRICK, GEORGE OLSON, AND THOMAS SEMSMON, OF EVERETT, WASH-  
INGTON.

## WRENCH.

956,197.

Specification of Letters Patent.

Patented Apr. 26, 1910.

Application filed August 30, 1909. Serial No. 515,181.

*To all whom it may concern:*

Be it known that I, ANDREW OLSEN SEMSMON, a subject of Norway, residing at Everett, in the county of Snohomish, State of Washington, have invented a new and useful Improvement in Wrenches, of which the following is a specification.

My invention relates to improvements in wrenches, pertaining more particularly to that type known as integral jaw, and it has primarily for its object to provide a novel device of this character wherein interchangeable jaws can be effectually used with a common handle or grasp.

It is also an object of the invention to provide a novel device of this character wherein a spring locking means is employed to effectually hold a wrench member or other tool member to the handle or hand grasp.

Furthermore, the invention has for an object, to provide a device of this character which will be simple in construction, efficient and advantageous in practice, and comparatively inexpensive to manufacture.

With the above and other objects in view, the invention consists in the details of construction and in the novel arrangement and combination of parts to be hereinafter more particularly referred to.

In describing the invention in detail reference will be had to the accompanying drawings forming part of this specification, wherein like characters of reference denote corresponding parts in the several views and in which—

Figure 1, is a side elevation showing the projecting box in section; Fig. 2, is a view in elevation of a wrench member, detached; Fig. 3, is a sectional view of a portion of the handle, setting forth the structure of the locking spring.

In the drawings, 1 denotes a hand grasp or handle which may be of any desired construction, it being only necessary that it be provided with the projecting box 2 to receive the reduced portion 3 of the shank of the wrench member 4. One face of the box 2 is cut out, as at 5, and fitting within said cut-out portion is the flat spring 6, having its inner end anchored within the hand grasp. Passing through an opening 7, in the opposite face of the box 2, is pin 8 hav-

ing its inner end anchored to the spring 6. The outer or projected end of the pin 8, carries a head 9, which is intended to be engaged by the thumb to impart movement to the spring to release the wrench member 4, as will be described.

The free end of the reduced portion 3, of the wrench member 4, is bifurcated as at 10, to embrace the pin 8, when the wrench member is assembled with the handle. One face of the reduced portion 3, is formed with a pocket 11, to receive a finger 12, carried by the spring 6, adjacent its free end.

Without further description, the operation of the present device is thought to be obvious. It is believed only necessary to state that the wrench member 4 may be of any desired size or shape, so long as the reduced portion 3 is adapted to fit within the box 2, the outer end of which is open.

My invention is not necessarily limited to wrenches as herein illustrated and described, but interchangeable members of other tools such as screw-drivers and the like, where variable sizes are used, may be substituted without departing from the gist of my invention, providing the shank of the detachable member is of a size and construction to fit in the open end of the handle or hand grasp.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The combination of a handle, an open end box projecting therefrom and having openings in opposed faces, a spring anchored within the hand grasp and fitting within one of the openings, a pin passing through the opposite opening and engaging the spring, a head on the pin, a wrench member having a shank insertible within the box, the free end of the shank being bifurcated to straddle the pin of the spring, said shank having a pocket in one of its faces, and a beveled finger carried by the spring adjacent its free end to enter the pocket of the shank.

ANDREW OLSEN SEMSMON.

Witnesses:

SCHUYLER DURYEE,  
JOHN L. SAMSEL.