

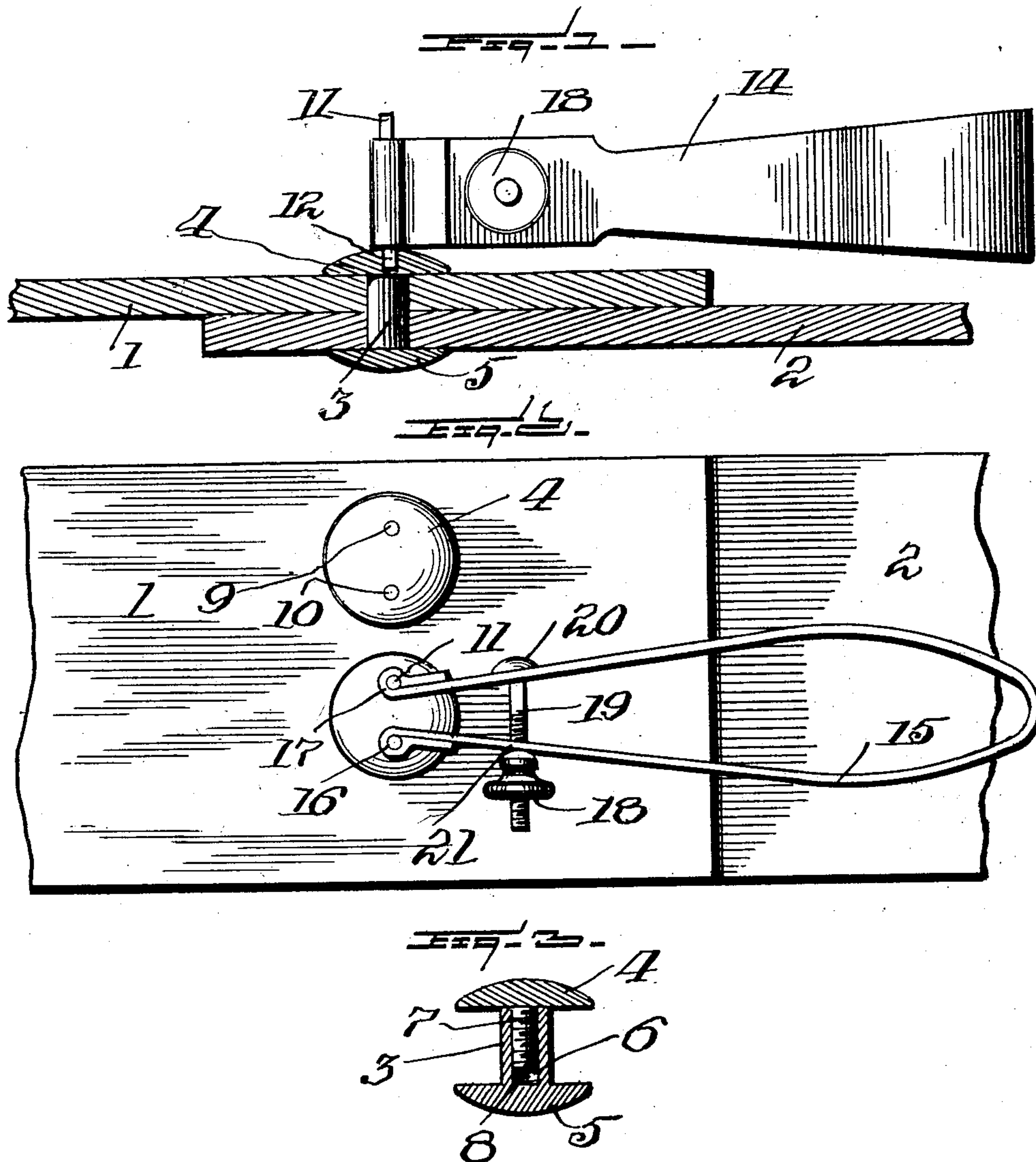
No. 713,489.

Patented Nov. 11, 1902.

J. PACK.
WRENCH.

(Application filed July 10, 1902.)

(No Model.)



Witnesses:
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By

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UNITED STATES PATENT OFFICE.

JACOB PACK, OF McKEESPORT, PENNSYLVANIA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 713,489, dated November 11, 1902.

Application filed July 10, 1902. Serial No. 115,050. (No model.)

To all whom it may concern:

Be it known that I, JACOB PACK, a citizen of the United States of America, residing at McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in wrenches, and more particularly to that class employed in connection with screw-rivets for belt-fasteners.

The invention has for its object novel means whereby the head of the rivet may be screwed into secure engagement with the socketed member in order to form an efficient union between the ends of the belt.

A still further object of my invention is to provide a wrench that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts, to be hereinafter more fully described, and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a longitudinal section taken through the belt, showing my improved wrench and the belt-fastener, with the wrench in position upon the same. Fig. 2 is a top plan view of the same, and Fig. 3 is a vertical section of the screw-rivet.

The ends of the belt are designated by numerals 1 and 2, receiving through apertures provided therefor the screw-rivets. (Shown at 3.) The screw member of the rivet has a head 4 and a threaded shank 7, the latter being received within the interiorly-threaded

socket 6, carried by the head 5 of this socketed member. Suitably-spaced apertures 9 and 10 are formed in the heads 4 5 and will be referred to later.

The wrench 14 is preferably formed of an integral length of spring metal bent intermediate its ends, as shown at 15, into a substantially U shape. The free ends of the wrench are bent to form a circular loop and are then continued to form an engagement with the outer sides of the metal. Secured within these loops are pins 16 and 17 of a size to readily enter the apertures 9 10 of the rivet-heads, so as to enable the latter to be rotated by movement of the wrench. In order to secure the pins 16 17 in engagement with the rivet-heads and prevent their accidental disengagement when the wrench is actuated, I provide an adjusting-screw 19, headed as at 20, the screw extending through one arm of the wrench and having its head engaging said arm. A thumb-screw 18 engages the screw 19 and forces the arms toward one another, thereby exerting pressure on the pins previously mentioned. This screw 18 is positioned in proximity to the free ends of the wrench in order that these ends may be more accurately adjusted, and, further, to prevent as far as possible any interference with the handle portion of the wrench.

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

A wrench of the type set forth, formed of an integral length of spring metal bent into a U shape, pins carried by the free ends of the wrench, and an adjusting-screw for varying the distance between said free ends.

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

JACOB PACK.

Witnesses:

JOHN NOLAND,
E. E. POTTER.