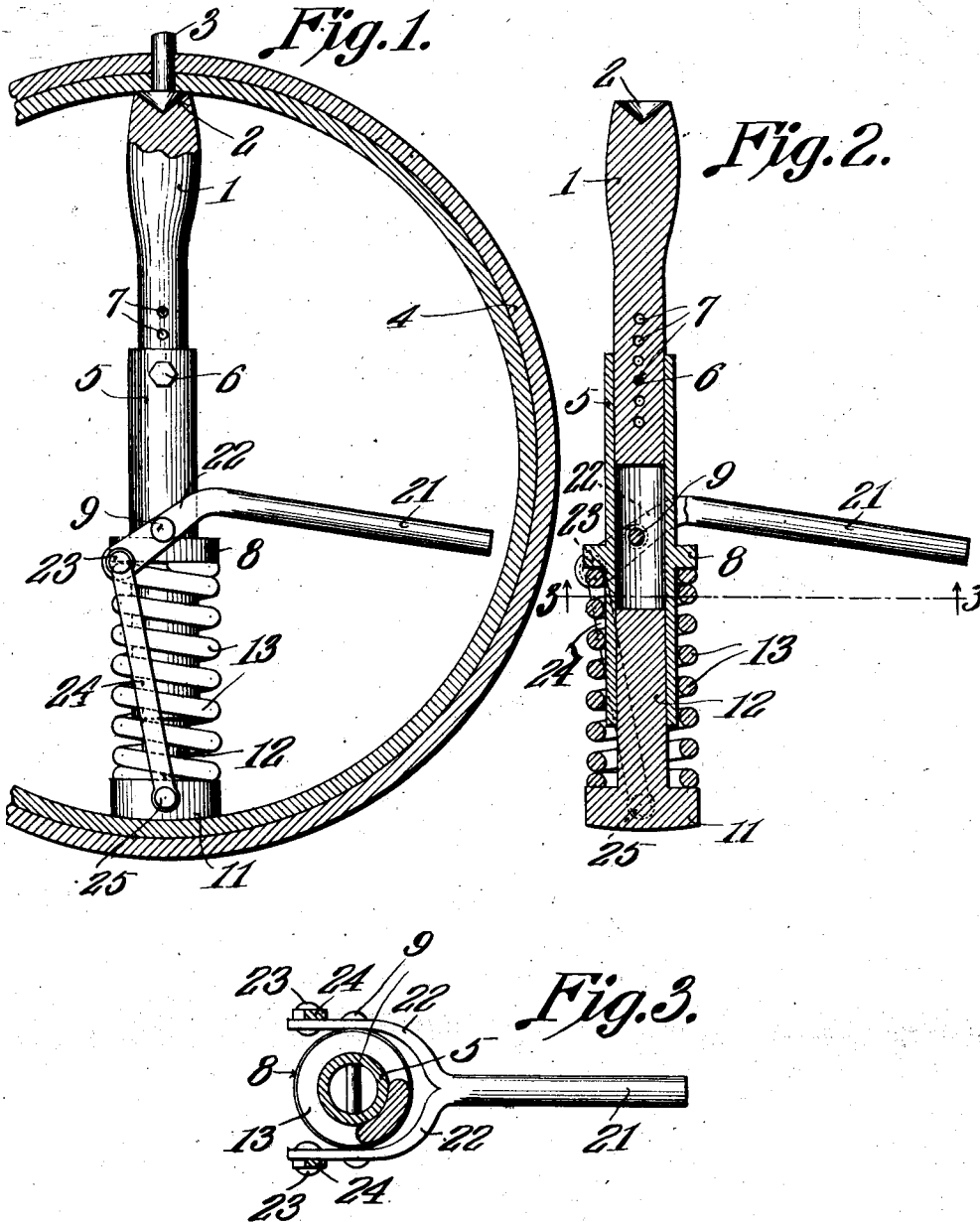


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RIVET HOLDER.
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991,617.

Patented May 9, 1911.



Witnesses
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UNITED STATES PATENT OFFICE.

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RIVET-HOLDER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PETER W. HERSHBERGER, a citizen of the United States, residing at Grants Pass, in the county of Josephine and State of Oregon, have invented a new and useful Rivet-Holder, of which the following is a specification.

This invention relates to riveting machines, and more especially to that type thereof adapted for use in tubular articles such as pipes or boilers; and the object of the same is to produce an improved rivet holder or anvil for insertion into the pipe or boiler to hold the head of the rivet while the workman on the exterior is pounding on the shank thereof.

The invention consists in a rivet holder constructed so as to yieldingly support its anvil, and with provision whereby the entire device may be reduced in length for insertion into or removal from the boiler, all as herein more fully described and claimed and as shown in the drawings wherein—

Figure 1 is a section of a boiler and an elevation with my improved implement therein. Fig. 2 is a vertical central section through the implement itself. Fig. 3 is a horizontal section on the line 3—3 of Fig. 2.

This rivet holder comprises primarily an anvil, a base and yielding support for the anvil, and a lever mechanism whereby the support can be compressed so that the length of the entire implement may be reduced.

The anvil itself comprises a solid member 1 having a socket 2 in its upper end for the reception of the head of the rivet 3 which is here shown as passing through the shell of a boiler 4, and this member telescopes into a tubular member 5 and is adjustable therein by means of a pin or bolt 6 passing through the tubular member and through one of a series of holes 7 in the solid member. By this or equivalent means of adjustment of the length, the implement may be adapted to work of different size. The tubular member has at about its mid-length an annular rigid collar 8; and through this member, preferably just above the collar, extends a pin or pivot bolt 9.

The base comprises a foot 11 from which rises a solid stem 12 fitting telescopically and slidably within the lower end of the tubular member 5, and around these parts is

coiled an expansive spring 13 resting at its lower end upon the foot and pressing upward at its upper end beneath the collar 8. It follows that with the use of such yielding support, the anvil would be held about as seen in Fig. 2 and the weight of any blows upon the rivet will be communicated through the spring 13 to the base and resisted by the foot of the latter which presses upon the lower side of the work 4, and therefore the spring must be of sufficient force to resist the impact of the strongest blows which will be necessary to upset the rivet. In order to insert this implement into the work 4, it is obvious that the rather powerful spring 13 must be compressed manually, and in order to do this I make use of the following device.

The lever mechanism comprises a lever 21 forked at its forward end as at 22 so as to pass astride the tubular member 5 and having the arms of the fork mounted pivotally on the bolt 9, and their forward extremities are pivoted as at 23 to the upper ends of links 24 whose lower ends are pivoted at 25 to the base at any suitable point but preferably to the opposite sides of its foot 11 as shown. It is obvious the depression of the outer end of the lever will cause the bolt 9 to descend and the collar 8 to compress the spring 13, and as this shortens the entire length of the implement the latter may then be inserted into the boiler in order to fit its socket to the head of the rivet, and may be removed from the boiler after the riveting has been completed. I do not think it necessary to provide any means for holding the lever in depressed condition, because when the spring is compressed thereby the implement will be immediately canted and either put in place or taken out of the place where it has just been. The parts are preferably entirely of metal and of the desired sizes, shapes and proportions.

Having fully described my invention, what I claim is:

1. A rivet holder comprising an anvil consisting of a solid member, a tubular member telescopically surrounding the solid member and having an annular collar, and means for adjustably connecting these members to each other; a base consisting of a foot and a stem fitting telescopically and loosely within said tubular member, and a spring surrounding these parts between the foot

and collar; and means for manually moving the foot and tubular member toward and from each other.

2. A rivet holder comprising an anvil consisting of a solid member, a tubular member telescopically surrounding the solid member and having an annular collar, and means for adjustably connecting these members to each other; a base consisting of a foot and a stem fitting telescopically and loosely within said tubular member, and a spring surrounding these parts between the foot and collar; and

a lever having a forked front end straddling said tubular member, a pivot between the latter and arms of the fork, and links connecting the extremities of said arms with the base. 15

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

PETER W. HERSHBERGER

Witnesses:

JOSEPH MOSS,

A. M. MOODY.