

(No Model.)

J. J. KROPACEK.
RIVETER.

No. 478,114.

Patented July 5, 1892.

FIG. 1 -

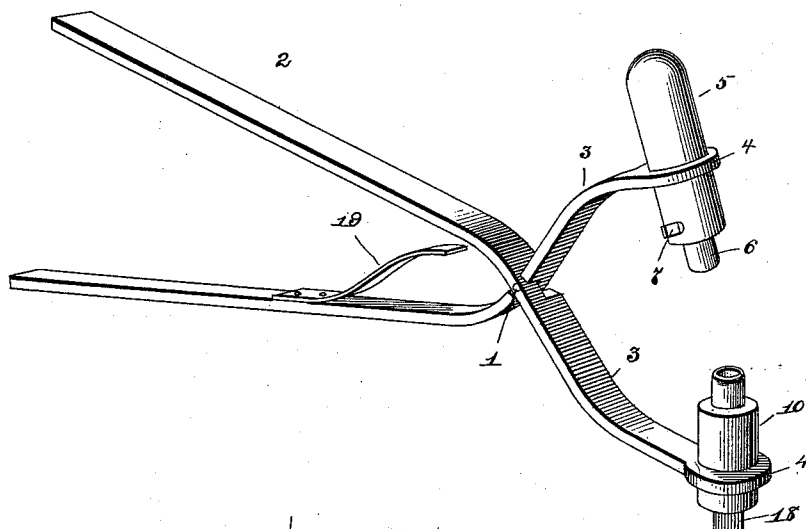


FIG. 2 -

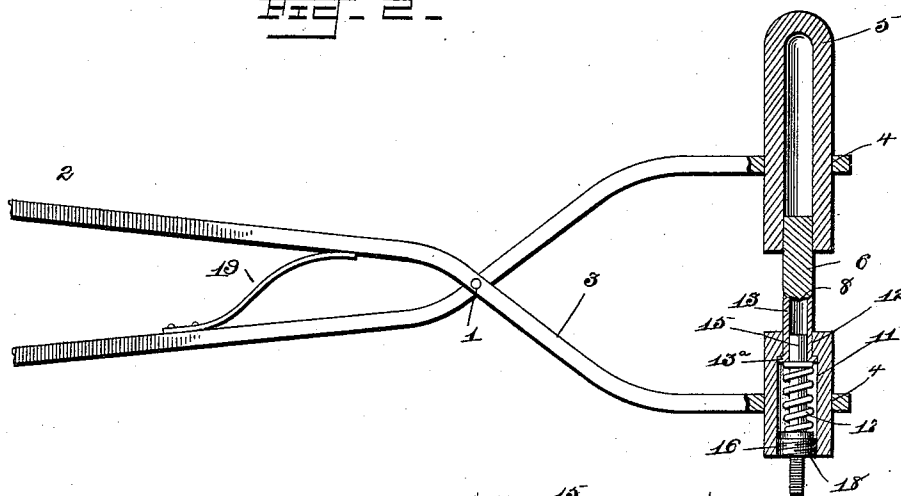


FIG. 3 -

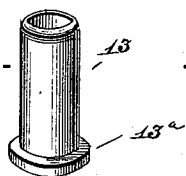


FIG. 4 -

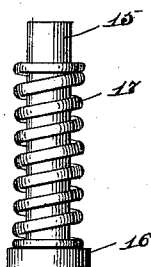
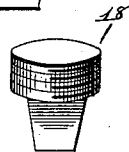


FIG. 5 -



Witnesses:

E. S. Durall
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By his Attorneys,

Inventor

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UNITED STATES PATENT OFFICE.

JOSEPH JOHN KROPACEK, OF IRVING, KANSAS.

RIVETER.

SPECIFICATION forming part of Letters Patent No. 478,114, dated July 5, 1892.

Application filed November 14, 1891. Serial No. 411,907. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH JOHN KROPACEK, a citizen of the United States, residing at Irving, in the county of Marshall and State of Kansas, have invented a new and useful Riveter, of which the following is a specification.

This invention relates to riveters; and the objects in view are to provide a cheap and simple device adapted to be handled about belting, harness, (whether in or out of position,) buggy-tops and trimmings, &c., and to be adapted to apply rivets to different parts of the same with facility and dispatch, and, furthermore, to so construct the device as to adapt it for driving or applying rivets of various sizes.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claim.

Referring to the drawings, Figure 1 is a perspective of a riveting device constructed in accordance with my invention. Fig. 2 is a side elevation, the jaws being shown in section. Fig. 3 is a detail of the rivet-guiding tube. Fig. 4 is a detail of the plunger. Fig. 5 is a detail of the set-screw for adjusting the plunger.

Like numerals of reference indicate like parts in all the figures of the drawings.

In constructing the riveter I pivot together, as at 1, a pair of members, each of which extends rearwardly and diverges from its point of pivot to form a handle 2. In front of the pivot the members diverge to form a pair of jaws 3, which terminate in rings 4. In the upper ring 4 there is located a hollow hammer-head 5, in the inner end of which is inserted a plug 6, adjustable within the head by means of a thumb-screw 7, threaded laterally in the head and at its inner end bearing against the side of the hub. The inner extremity of the plug is provided with a small annular depression 8, whereby it is adapted to receive the rivet and turn the end of the same. In the lower ring of the opposite member there is supported a hollow sleeve or holder 10, having an internal bore 11, threaded at its lower end and reduced at its upper end through the formation of a collar or bushing 12. 13 designates a tubular rivet-holder centrally bored to accommodate a rivet and of

an external diameter adapting it to move longitudinally in the collar of the holder. At its lower end the tube is provided with an external annular flange or collar 13, which forms a stop and limits the upward movement of the tube by contact of the stop with the collar of the holder. A cylindrical plunger 15 fits and is adapted for movement within the tube and at its lower end is provided with an annular head 16, between which and the lower end of the tube is interposed a coiled spring 17, the tendency of which is to expand. The lower end or head of the plunger rests upon the upper end of an adjusting-screw 18, which is threaded and adapted to be adjusted within the lower end of the opening of the holder, which latter, as hereinbefore stated, is threaded, and is thus adapted to receive the screw. This completes the construction of the device, whose operation to those conversant with this class of machines will at once be obvious, but may briefly be stated as follows: The set-screw at the lower end of the holder is first adjusted so as to regulate the depth of penetration of the plunger within the tube to agree with the length of the rivet. Such is all that is necessary in order to set the device. An S-shaped spring 19, interposed between the handles of the two members, normally spreads the handles and the jaws, so that the device is always ready to receive a rivet and to be placed over two contiguous elements or articles to be riveted. When the rivet has been placed in the device and the elements brought together through which it is desired to pass the rivet, the handles are closed against the tension of the S-shaped spring, and either by pressure manually exerted or by the taps of a hammer upon the hammer-head 5 the guiding-tube is driven against the tension of the coiled spring inwardly upon the plunger, and the plug of the hammer, combined with the plunger, serves to squeeze or force the rivet toward the element or article to be riveted and said article toward the rivet, so that the rivet is thus forced through the article, and when through the same its tubular edge, coming in contact with the turning end of the plug of the hammer, serves to turn or upset said rivet.

From the foregoing description, in connection with the accompanying drawings, it will

be seen that I have provided a handy device especially adapted for harness-makers, teamsters, and the like, that may be readily carried in the wagon and which is adapted to
5 apply with facility and dispatch rivets to harness and other articles without the necessity of even removing the same.

Having described my invention, what I claim is—

10 In a device of the class described, the opposite pivoted members terminating in rear of their pivot in handles and in front of the same in jaws having rings at their ends, in combination with a hollow hammer-head supported in the upper ring, an upsetting-plug
15 mounted in the hammer-head, a set-screw for adjusting the same, a bored holder mounted in the lower ring and having an upper re-

duced bore, a tubular guide mounted for reciprocation in the reduced bore and provided 20 at its lower end with an annular shoulder forming a stop, a plunger mounted in the tube and terminating at its lower end in a head, a spring coiled upon the plunger and interposed between the head of the same and 25 the lower end of the tube, and a set-screw supporting the lower end of the plunger and threaded in the lower end of the holder, substantially as specified.

In testimony that I claim the foregoing as 30 my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH JOHN KROPACEK.

Witnesses:

S. J. SKOEHL,
FRANK THOMSON.