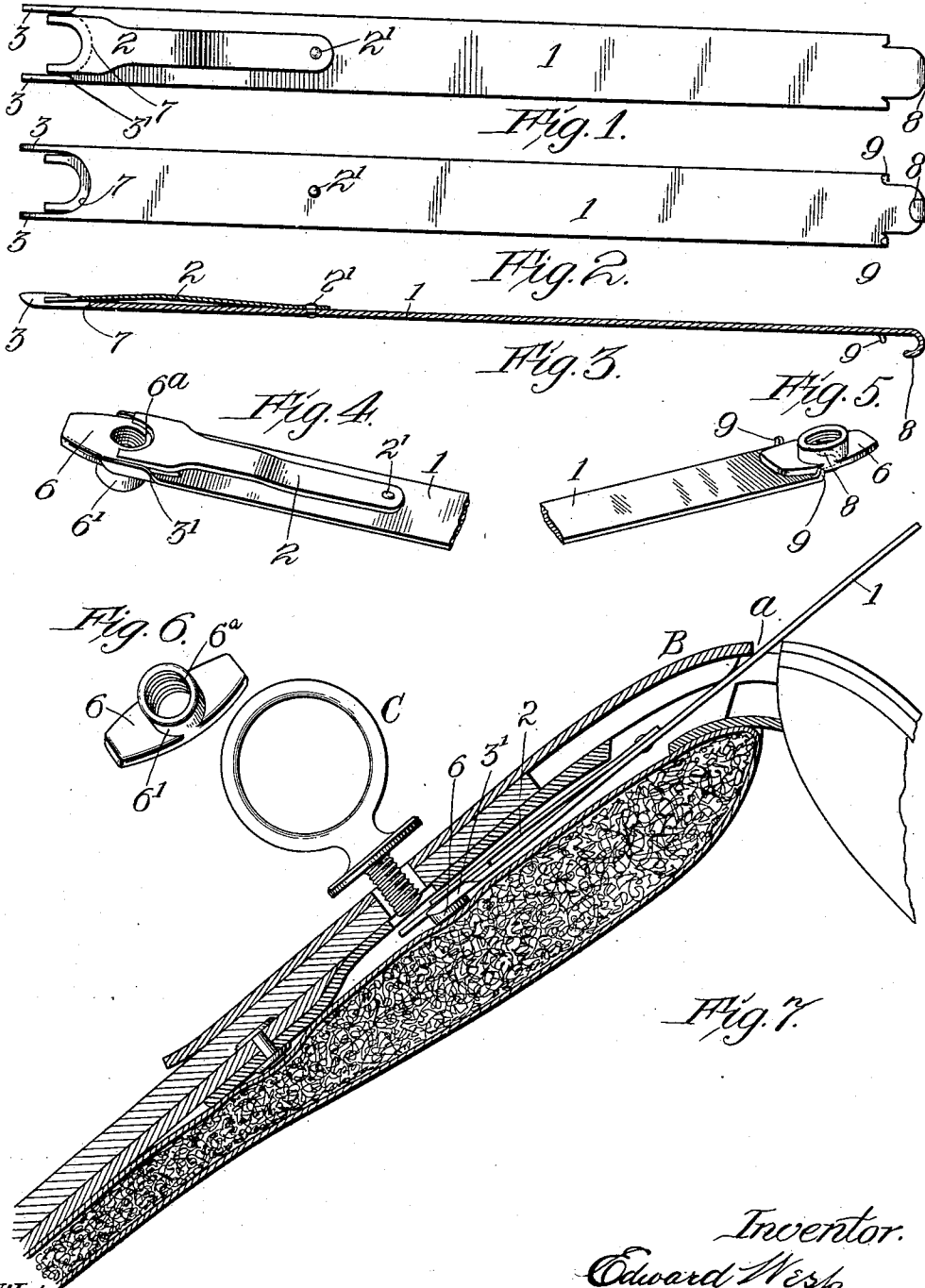


E. WESP.
TERRET BUR HOLDER.
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910,334.

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UNITED STATES PATENT OFFICE.

EDWARD WESP, OF CANTON, OHIO, ASSIGNOR TO THE GILLIAM MANUFACTURING COMPANY,
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TERRET-BUR HOLDER.

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To all whom it may concern:

Be it known that I, EDWARD WESP, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Terret-Bur Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to a tool for holding a nut or bur so that it may be placed in positions that cannot be reached by hand or readily with the ordinary tools of the mechanic.

The object of the invention is to produce a tool of this character particularly adapted for inserting terret nuts or burs into harness saddles and holding them in proper position while the stem of a terret is screwed into the nut.

Another object of the invention is to produce a tool that is adapted to hold and insert such a nut in place, and is also adapted for removing it.

Referring to the drawings: Figure 1 is a view in elevation of a tool embodying my invention. Fig. 2 is an elevation taken from the opposite side from that shown in Fig. 1. Fig. 3 is a longitudinal section of the tool. Fig. 4 is a view of one end of the tool showing a terret nut gripped thereby. Fig. 5 is a view of the opposite end of the tool showing a nut engaged thereby when the nut is to be removed. Fig. 6 is a perspective view of a terret nut, adapted to be held and inserted by the tool. Fig. 7 is a sectional view of a portion of a harness saddle showing the method of using the tool illustrated herein.

In the drawings, 1 indicates a relatively long narrow, and preferably thin strip of metal, which constitutes the main body of the tool, and to one end of which is attached a resilient arm, 2, in any suitable manner, as by a rivet, 2'.

3, 3 indicate bifurcations extending from the opposite edges of the strip and adapted to engage the opposite edges of a terret nut or bur, 6. The edge of the strip between the bifurcations is preferably curved, as shown at 7, so as to engage the boss or collar 6' of the terret nut. The bifurcations, 3, are preferably elongated and widened by flattening them and bent over in one direction at substantially right angles to the metal strips as indicated at 3'.

The spring arm, 2, is preferably forked at

its free end to engage with a relatively large portion of one surface of the nut and at the same time expose the screw-thread opening 6^a thereof so that the stem of the terret may be freely screwed into the nut.

As shown in Fig. 4, the nut is inserted between one face of the strip and the spring arm, which parts operate as gripping members, while the bifurcations, 3, engage the opposite edges of the nut, whereby the latter is securely held and may be inserted into a harness saddle as shown in Fig. 7, through an opening *a* provided therefor, in the upper part of the saddle B, and held in proper position while the terret, C, is being screwed into place. After the terret has been seated the tool is removed, it readily disengaging itself from the nut.

It often becomes necessary to remove the terret nut from its position in the harness saddle. For this purpose I provide the tool with means for engaging the nut and pulling it out through the opening *a* in the saddle. These means are preferably formed at the end of the tool 1 opposite to the gripping members and comprise a hook 8 as shown in Figs. 2 and 3. When it is desired to remove the nut the tool is inserted into the saddle and pressed behind the nut so that the hook drops into the screw-threaded opening and grips the threads, whereupon the nut may be pulled out. To keep the nut from turning while being withdrawn, I preferably provide the tool with two plugs 9, 9, on opposite sides of the hook 8, and preferably a short distance therefrom.

It will thus be seen that I have devised a convenient tool provided at one end with gripping members to hold the nut, insert it into place, and then readily release it, while at the opposite end it is provided with means for engaging the nut so that it may be removed.

What I claim is:

1. A tool for holding and placing a nut having at one end gripping members arranged to engage with opposite faces of the nut, and bifurcations carried by one of said members arranged to lie at the sides of the nut and hold it against turning.

2. A tool comprising a strip of metal provided at one end with bifurcations to engage the opposite edges of a nut, and hold it against turning, and an arm secured at one end to the metal strip and arranged to ex-

tend toward the forked end thereof and adapted to receive between it and the strip the nut.

5 3. A tool comprising a strip of metal provided at one end with bifurcations bent at substantially right angles to the said strip and arranged to engage with the opposite edges of a nut and hold it against turning, and a spring arm secured at one end to the
10 strip and adapted to receive between its free end and the said strip the nut.

4. A tool provided at one end with a hook adapted to engage the screw-threads of a nut, and with lugs on opposite sides of the hook
15 adapted to engage the opposite edges of the nut.

5. A tool adapted to hold and insert a nut

into place comprising a strip of metal provided at one end with bifurcations, the said bifurcations being bent at substantially right
20 angles to the said strip to engage the opposite edges of a terret nut, and the outer end of the strip between the bifurcations being curved to engage the collar of the nut, in
25 combination with a spring arm secured to the strip and adapted to receive the nut between it and the strip.

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

EDWARD WESP.

Witnesses:

Z. E. MacKENZIE,
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