No. 765,002. PATENTED JULY 12, 1904.

R. N. GRAHAM.

RIVET HOLDER.

APPLICATION FILED MAR. 16, 1904.

NO MODEL.

Fig. 1.

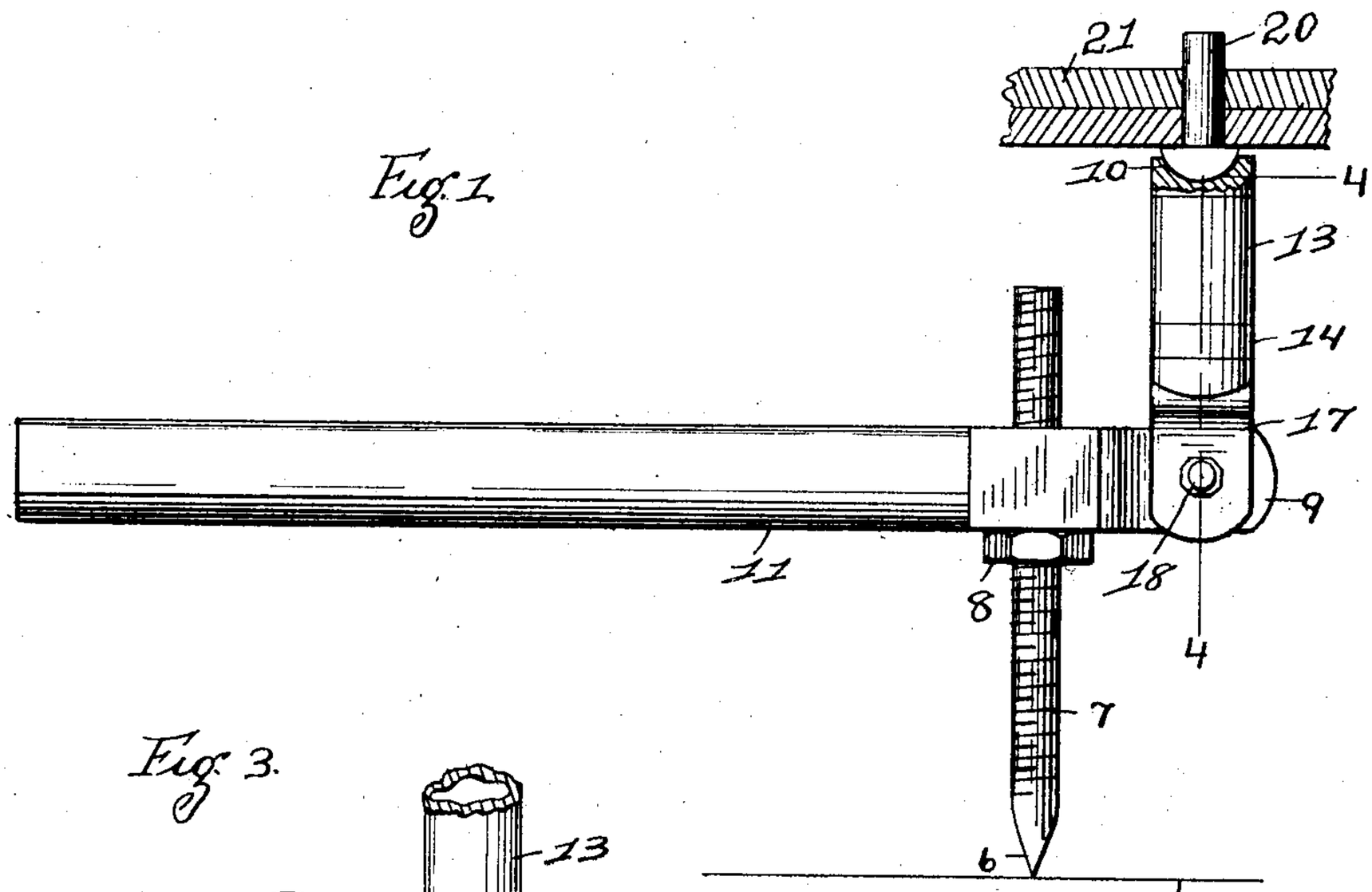


Fig. 3.

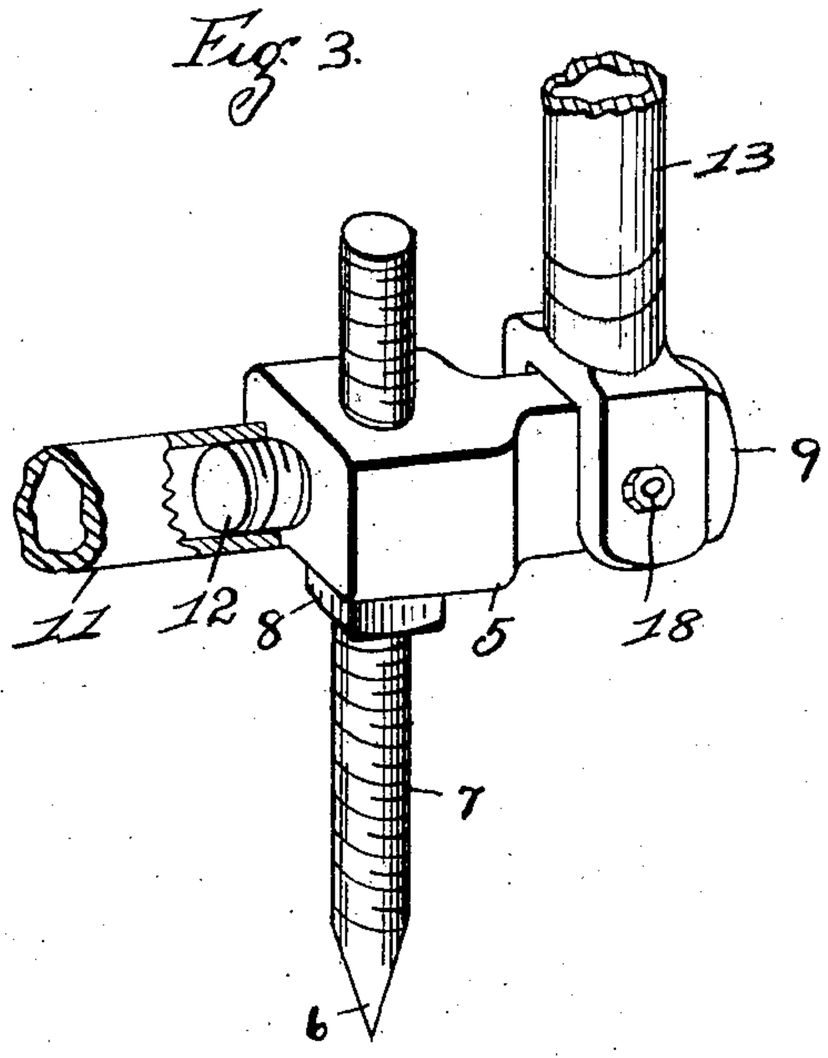


Fig. 4

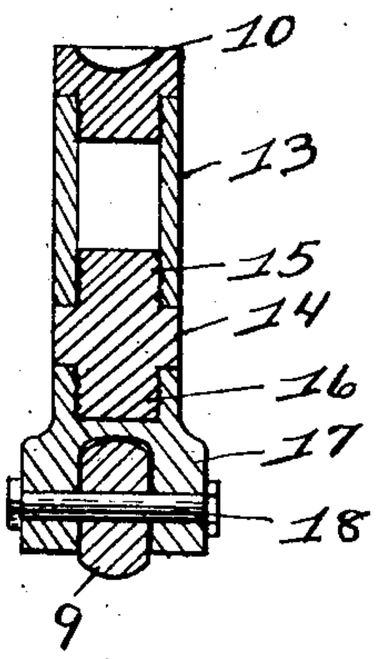
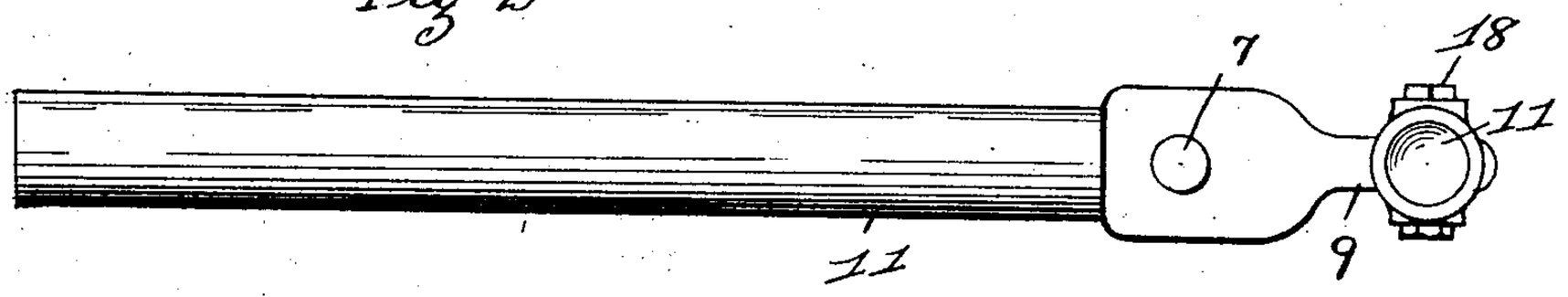


Fig 2



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No. 765,002. Patented July 12, 1904.

UNITED STATES PATENT OFFICE.

ROBERT N. GRAHAM, OF ST. LOUIS, MISSOURI.

RIVET-HOLDER.

SPECIFICATION forming part of Letters Patent No. 765,002, dated July 12, 1904.

Application filed March 16, 1904. Serial No. 198,503. (No model.)

To all whom it may concern:

Be it known that I, ROBERT N. GRAHAM, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Rivet-Holders, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to rivet-holders; and it consists of the novel features herein shown, described, and claimed.

In the drawings, Figure 1 is a view in elevation showing my improved rivet-holder in use. Fig. 2 is a top plan view. Fig. 3 is a perspective, upon an enlarged scale, showing the details of construction, parts being broken away to economize space. Fig. 4 is a vertical central section on the line 4 4 of Fig. 1.

Referring to the drawings in detail, my improved rivet-holder comprises the head 5; the pivot-point 6, formed upon the end of the bolt 7, said bolt being adjustably screw-seated in the head 5; the jam-nut 8 upon the bolt 7 against the lower face of the head 5; the lever-arm 9, extending horizontally from the head 5; the rivet-holding cup 10, pivotally connected to the arm 9, and the lever-handle 11, extending from the head 5 at the side opposite to the lever-arm 9.

The head 5 is a forging and has a screw-threaded nipple 12 extending horizontally at the side opposite the lever-arm 9, and the handle 11 is a piece of pipe screw-seated upon the nipple 12. The lever-arm 9 is forged integral with the head 5. The bolt 7 is of considerable length to allow of a wide range of adjustment. The rivet-holding cup 10 is secured in the upper end of the tube 13. A coupling 14 has a nipple 15 extending into the lower end of the tube 13 and a nipple 16 extending into the hinge member 17, said hinge member being bifurcated to receive the lever-arm 9, and a pivot-bolt 18 is inserted through the hinge member 17 and through the lever-arm 9 to form a pivotal connection between the rivet-holding cup 10 and the handle 11.

The distance between the rivet-holding cup 10 and the pivot-bolt 18 may be readily changed by using interchangeable tubes 13 or interchangeable couplings 14 of different lengths.

In the operation a support 19 for the pivot-point 6 is found, the bolt 7 is adjusted through the head 5, a tube 13 or a coupling 14 of suitable length is inserted between the cup 10 and the pivot-bolt 18, and the rivet 20 placed in the cup, the handle 11 manually engaged to press the rivet through the parts 21 to be connected by rivets, and then the rivet is headed down in the usual way.

My rivet-holder is intended for use in large steel constructions, such as bridges, and should be built in different sizes, according to the work required.

I claim—

1. In a rivet-holder: a head provided with a lever-arm extending one way from the head: a bolt adjustably mounted in said head; said bolt being provided with a point at its lower end; a rivet-holding cup pivotally connected to the lever-arm; and a handle extending the other way from the head; substantially as specified.

2. In a rivet-holder: a head provided with a lever-arm extending one way from the head; a bolt adjustably mounted in said head, and having a point at its lower end; a rivet-holding cup pivotally connected to the lever-arm; said rivet-holding cup being constructed in attachable pieces, whereby they may be interchanged for others of different lengths; and a handle extending the other way from the head; substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT N. GRAHAM.

Witnesses:
ALFRED A. EICKS,
F. C. CRISLER.