No. 658,337. Patented Sept. 25, 1900.

T. BROWN.

TOOL FOR CUTTING RIVET HEADS.

(Application filed Dec. 8, 1899.)

(No Model.)

Fig. 4.

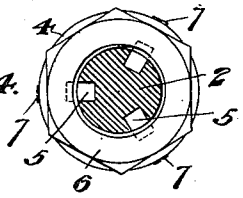


Fig. 2.

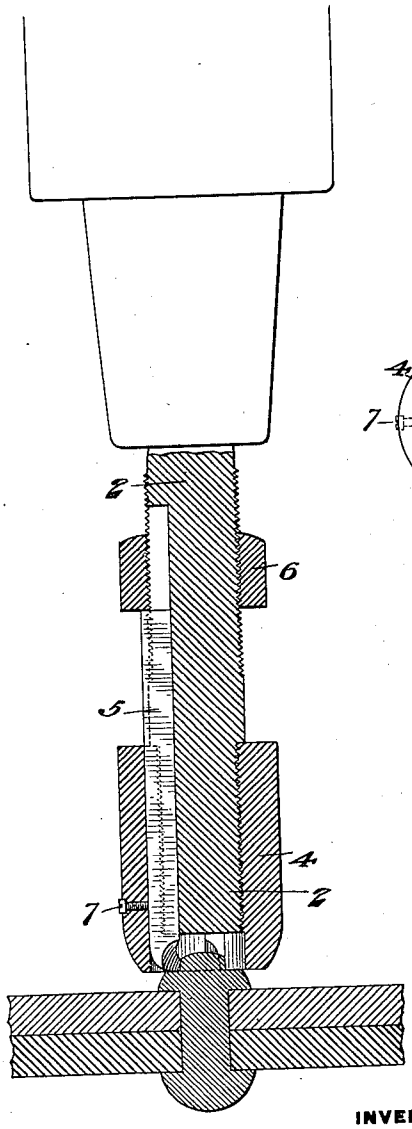


Fig. 1.

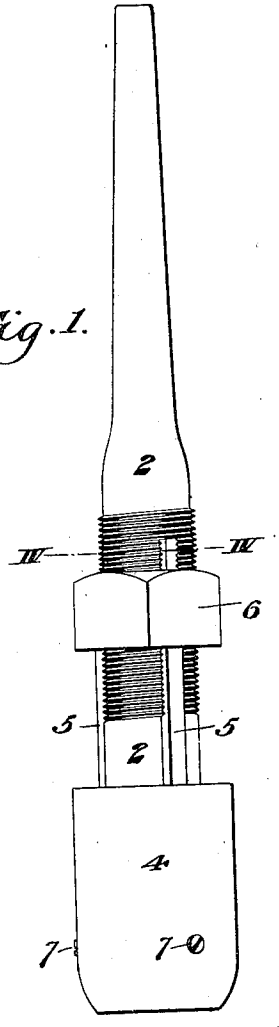
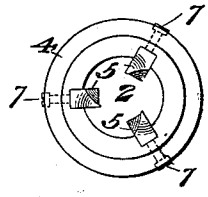


Fig. 3.



WITNESSES

L. A. Somers

H. M. Corwin

INVENTOR

Thomas Brown

by his Attorneys

Bakewell & Bakewell

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

THOMAS BROWN, OF ALLEGHENY, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO DAVID A. WILBERT, OF PITTSBURG, PENNSYLVANIA.

TOOL FOR CUTTING RIVET-HEADS.

SPECIFICATION forming part of Letters Patent No. 658,337, dated September 25, 1900.

Application filed December 8, 1899. Serial No. 739,661. (No model.)

To all whom it may concern:

Be it known that I, THOMAS BROWN, of Allegheny, Pennsylvania, (whose post-office address is No. 615 Preble avenue, Allegheny, in the county of Allegheny and State of Pennsylvania,) have invented a new and useful Improvement in Tools for Cutting Rivet-Heads, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 shows in vertical section a rivet-cutting tool constructed in accordance with my invention. Fig. 2 is a side elevation thereof. Fig. 3 is a bottom plan view, and Fig. 4 is a horizontal section on the line IV IV of Fig. 1.

My invention is designed for end-cutting, especially for cutting the heads of rivets when the rivets are to be removed, though it will be understood that it can be employed for cutting other like articles for which it may be adapted.

In the drawings, 2 represents the stem of my improved cutting-tool, having longitudinal surface grooves 3 3 extending along the stem to its end.

4 is a sleeve which is fitted removably around the stem, and 5 5 are cutter-bars which are fitted in the grooves. These cutter-bars are held by a nut 6 or other suitable device, which is screwed upon the stem and bears against the ends of the bars, and also preferably by set-screws 7, which pass through the sleeve. The sleeve 4 is preferably secured to the stem 2 by screw-threads These bars are arranged around a circular line and project somewhat beyond the end of the stem, forming a matrix-cavity backed by the sleeve, which preferably also extends beyond the end of the stem, as shown in Fig. 2. When the parts are assembled, the cutter-bars are, in effect, held removably in longitudinal sockets extending from the end of the tool and are thus substantially and firmly secured in place.

In cutting the rivet-head the end of the tool is brought down upon the rivet, as shown in Fig. 2, and, being rotated, the edges of the cutters which engage the rivet-head cut the metal to the diameter of the space between said cutters and leave the rivet free to be withdrawn. It is obvious that the diameter of the said space must be that or less than that of the shank of the rivet.

The tool is rapid in its operation, and the ease with which the cutter-bars can be adjusted or removed for sharpening or repairs makes the device very convenient and useful. Further, as the shank of the rivet is not injured it may be reused. The face of the riveted article is not injured, as would be the case if the head were ground or removed by a chisel.

Within the scope of my invention as defined in the claims the construction of the tool may be varied by those skilled in the art, since

What I claim is—

1. In a tool for cutting rivet-heads, the combination of a stem, removable end cutter-bars mounted around and projecting beyond said stem, and a stop at the outer side of said bars and level with the cutting edge thereof; substantially as described.

2. In a tool for cutting rivet-heads, the combination of a stem, removable end cutter-bars mounted around and projecting beyond said stem and a sleeve inclosing said cutter-bars, the cutting edge of said cutter-bars being level with the end of said sleeve; substantially as described.

3. In a tool for cutting rivet-heads, the combination of a stem, removable end cutter-bars mounted in grooves around and projecting beyond said stem, and a sleeve inclosing said cutter-bars, the cutting edge of said cutter-bars being level with the end of said sleeve; substantially as described.

4. In a tool for cutting rivet-heads, the combination of a stem, removable end cutter-bars mounted in grooves around and projecting beyond said stem, a sleeve inclosing said cutter-bars, the cutting edge of said cutter-bars being level with the end of said sleeve, and a nut which engages the other end of said bars; substantially as described.

In testimony whereof I have hereunto set my hand.

THOMAS BROWN.

Witnesses:
H. M. CORWIN,
GEO. B. BLEMING.