

(Model.)

E. MAYNZ.

MANUFACTURE OF RIVETS.

No. 251,265.

Patented Dec. 20, 1881.

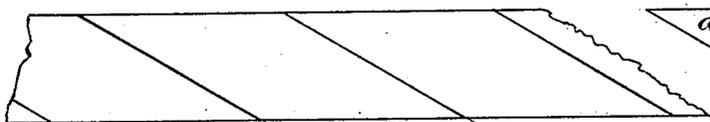


Fig. 1.

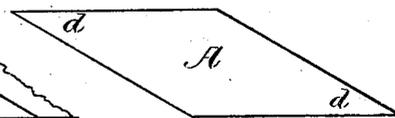


Fig. 2.

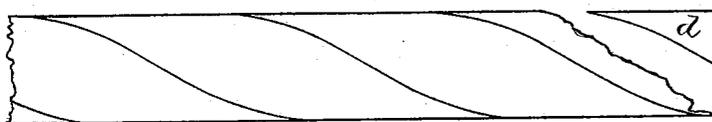


Fig. 3.

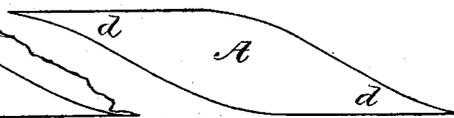


Fig. 4.

# UNITED STATES PATENT OFFICE.

EDWARD MAYNZ, OF BOSTON, MASSACHUSETTS.

## MANUFACTURE OF RIVETS.

SPECIFICATION forming part of Letters Patent No. 251,265, dated December 20, 1881.

Application filed September 18, 1880. (Model.)

To all whom it may concern:

Be it known that I, EDWARD MAYNZ, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in the Manufacture of Rivets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature, in which—

Figure 1 is a plan view of a blank strip, from which blanks are cut by severing upon the diagonal lines shown thereon. Fig. 2 is a plan of a blank thus cut therefrom. Fig. 3 represents a plan of a blank strip with curved lines substituted for the diagonal ones of Fig. 1, whereby a modification in the shape of the complete blank is obtained. Fig. 4 is a plan of a blank thus cut from the blank strip. Fig. 5 represents in section the shape of the blank after it has been submitted to the action of the forming-dies, as hereinafter described, and also by dotted lines the position to which the point-forming portions are bent by a further forming action. Fig. 6 represents a plan view of the blank shown by section in Fig. 5. Fig. 7 is a perspective view of the complete rivet. Fig. 8 is a cross-section on the line  $xx$  of Fig. 6.

This invention relates to the manufacture of rivets or fastenings having two fastening-prongs only, curved in cross-section to an arc of a circle concentric and within the circumference of the head and gradually tapering from or near the head to the point.

It consists, first, in the process of making the rivet or fastening from a blank strip such as described, and, second, in a pronged rivet or fastening made substantially as herein set forth.

The blank may be of the shape shown in the plan in Fig. 2 or as shown in the plan in Fig. 4, as desired. These blanks are cut from a flat strip of metal, either of composition, brass, homogeneous iron, or other metal of a suitable character, by a simple diagonal or curved cut extending across the same, as represented in Figs. 1 and 3. The blank thus formed is then submitted to the action of suitable forming-dies, whereby the head-forming portion  $b$  is struck up or cupped and the point-forming parts  $d$  rounded. There are, of course, the parallel portions  $c$ , connecting the point-forming parts with the head. The blank thus shaped by the dies is shown in Figs. 5 and 6.

It is then submitted to another forming action, whereby the portions  $c$  and the point-forming

parts  $d$  are folded, substantially as shown by dotted lines in Fig. 5, upon the line  $e$  to a position under the head, thereby bringing the prongs to a right angle with the seat or head and upon an arc of a circle concentric with and within the edge of the seat. The completed rivet or fastening will have therefore the seat or head  $f$ , the two fastening-prongs  $g$ , curved in cross-section and pointed, and the projecting flange  $h$ .

The advantages of this invention are, first, economy in use of metal; second, cheapness of construction; and, third, superiority in result.

I do not broadly claim a rivet with fastening-prongs, as I have already made application for Letters Patent for the same. Neither do I claim the rivet claimed and described in Patent No. 227,673, to Bray, dated May 18, 1880, and in Patent No. 215,889, granted D'Anbigne, dated May 27, 1879, and Patent No. 125,007, to Beals, dated March 26, 1872, and Patent to Kendig, No. 66,968, dated July 23, 1867, as the said patents do not show or describe, first, the forming of a blank from a blank strip in the manner indicated; second, the making of a pointed rivet from a blank strip; and, third, a pointed rivet having two curved pointed fastenings only.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The process of manufacturing two-pronged rivets or fastenings from a flat parallel-sided blank strip, consisting, first, in cutting from said blank strip a diamond or substantially diamond shaped blank, as described; second, in striking up a blank thus made to form the head or seat  $b$ , the portions  $c$ , and the curved prong-forming parts  $d$ ; and, third, in bending the portions  $c$  and  $d$  under the seat or head, thereby bringing the prongs to a position substantially at right angles to the head or seat, all substantially as set forth.

2. As a new article of manufacture, a two-pronged rivet or fastening made from a diamond or substantially diamond shaped blank, and having the circular head or seat  $b$ , the flange  $h$ , formed substantially as described, and the two prongs  $g$ , arranged opposite each other, as shown, and curved in cross-section, all substantially as set forth.

EDWD. MAYNZ.

Witnesses:

A. J. OETTINGER,  
GEO. F. WALKER.