(No Model.)

S. W. SHOREY.

RIVET.

No. 388,458. Patented Aug. 28, 1888.

Fig:3.

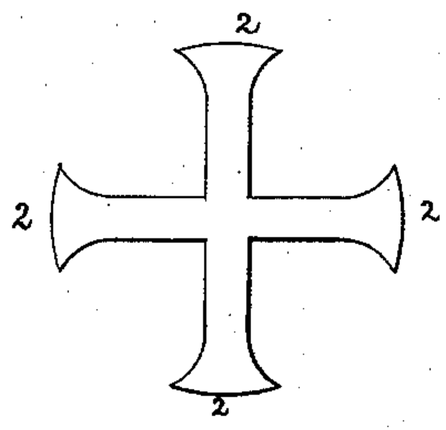


Fig:2.

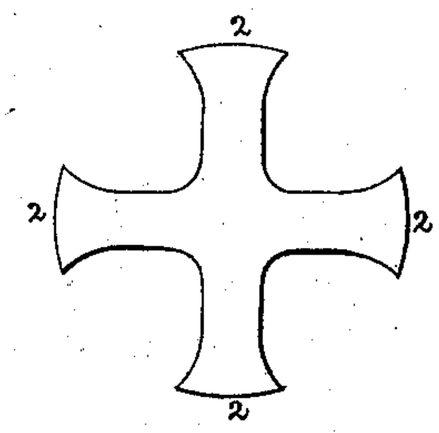


Fig:1.

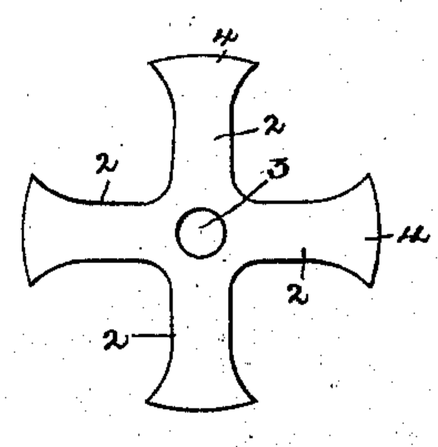


Fig:4.

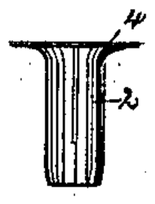


Fig:5.

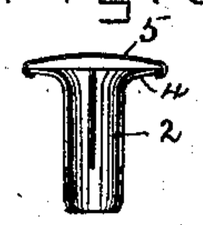


Fig:6.

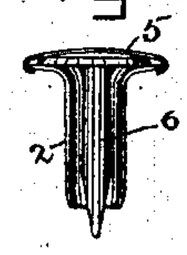
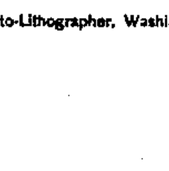


Fig:7.



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UNITED STATES PATENT OFFICE.

SAMUEL W. SHOREY, OF BOSTON, MASSACHUSETTS.

RIVET.

SPECIFICATION forming part of Letters Patent No. 388,458, dated August 28, 1888.

Application filed February 21, 1888. Serial No. 264,759. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL W. SHOREY, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Rivets, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to construct a tubular rivet to be used as a fastening for buttons and the like.

In accordance with this invention a blank of sheet metal shaped to present several arms is subjected to the action of suitable dies and plungers, whereby the several arms are upturned to form the sides of the tubular rivet, the outer ends of the said arms being turned outwardly to form a flange for the head of the rivet. A cap will preferably be employed for the flanged head or end of the rivet, and to increase the strength a headed tack may be placed within the tubular rivet.

Figures 1, 2, and 3 show in plan view metal blanks of different form which may be used to form a tubular rivet embodying this invention. Fig. 4 shows in side elevation a completed tubular rivet; Fig. 5, a vertical section of the tubular rivet shown in Fig. 4, having a cap at the head; Fig. 6, a similar view to Fig. 5, a headed tack being placed in the rivet; and Fig. 7 shows a rivet with a closed end.

Referring to Fig. 1, the sheet-metal blank is cut to present four arms, as 2, of substantially equal length and radiating from a center, which, as shown in Fig. 1, is provided with an opening, 3. The outer ends of the arms 2 are broadened or expanded, as at 4. This flat blank is subjected to the action of suitable dies and plungers, by which it is formed into a tubular rivet, (see Figs. 4, 5, and 6,) the arms 2 of the blank forming the shank of the rivet and the broadened or expanded ends 4, the latter being turned outwardly and forming the head, while the central opening, 3, forms the open end of the shank of the rivet. A cap, 5, of suitable shape, is applied to the flanged head of the rivet, the edge of the cap being turned over said flanges, to thereby close the open head and to give a better finish when applied. To strengthen the rivet, a headed tack, 6, may be placed within it, as shown in Fig. 6.

Fig. 2 shows a blank like that in Fig. 1, but without the central opening, 3, and by it a rivet like that shown in Fig. 7 is obtained, the lower end of its shank being closed.

In Fig. 3 the blank is provided at the junction of its arms with angular corners in contradistinction to round corners, as in Fig. 2, while the rivet produced from it is substantially the same as that produced by the blank of Fig. 2.

The rivet herein described may be very cheaply manufactured, and may be used with or without the headed tack or other core.

It is obvious that the number of arms 2 may vary, and also another form of core may be substituted for the headed tack.

I claim—

1. A tubular rivet composed of a single blank having several independent adjacent upturned portions, 2, broadened upper ends, 4, the independent cap 5, and headed tack 6, substantially as described.

2. A tubular rivet strengthened by a detached independent tack or core placed loosely within it, the end of the said tack or core protruding from the bottom of the rivet, substantially as described.

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

SAMUEL W. SHOREY.

Witnesses:

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J. C. SEARS.