

E. S. WHEELER.
RIVET.

No. 80,791.

Patented Aug. 4, 1868.

Fig 1

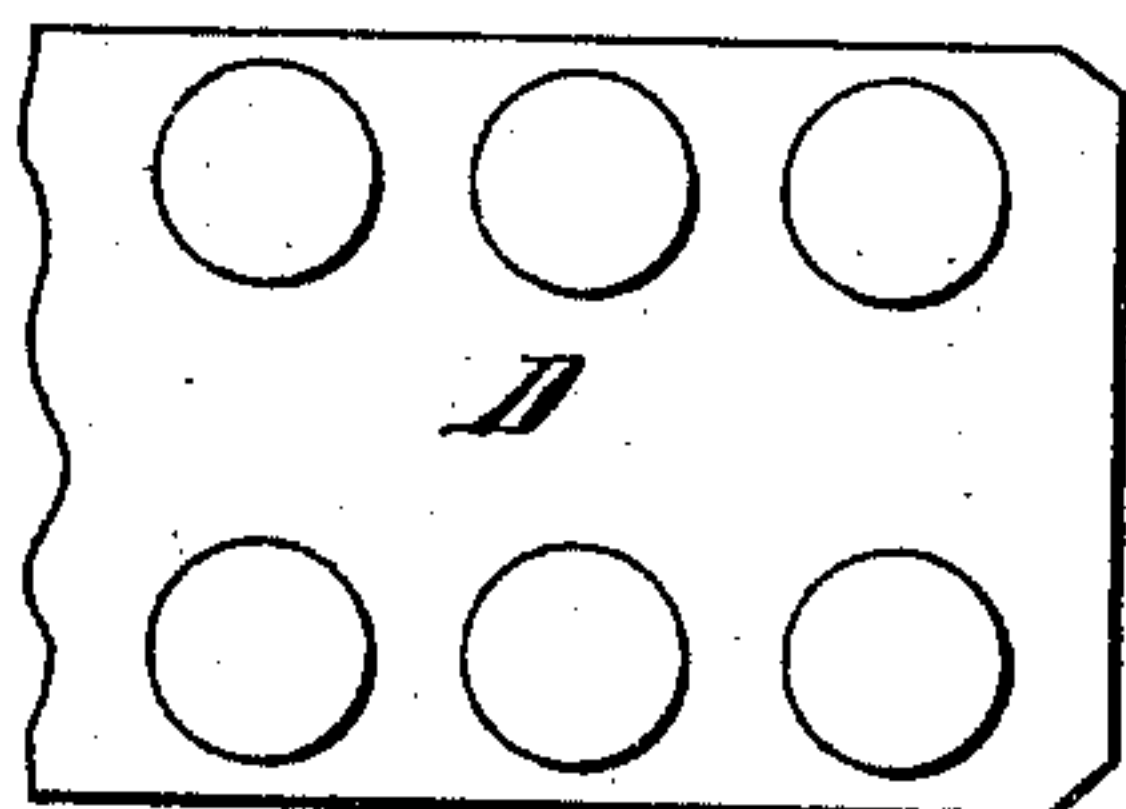


Fig 2

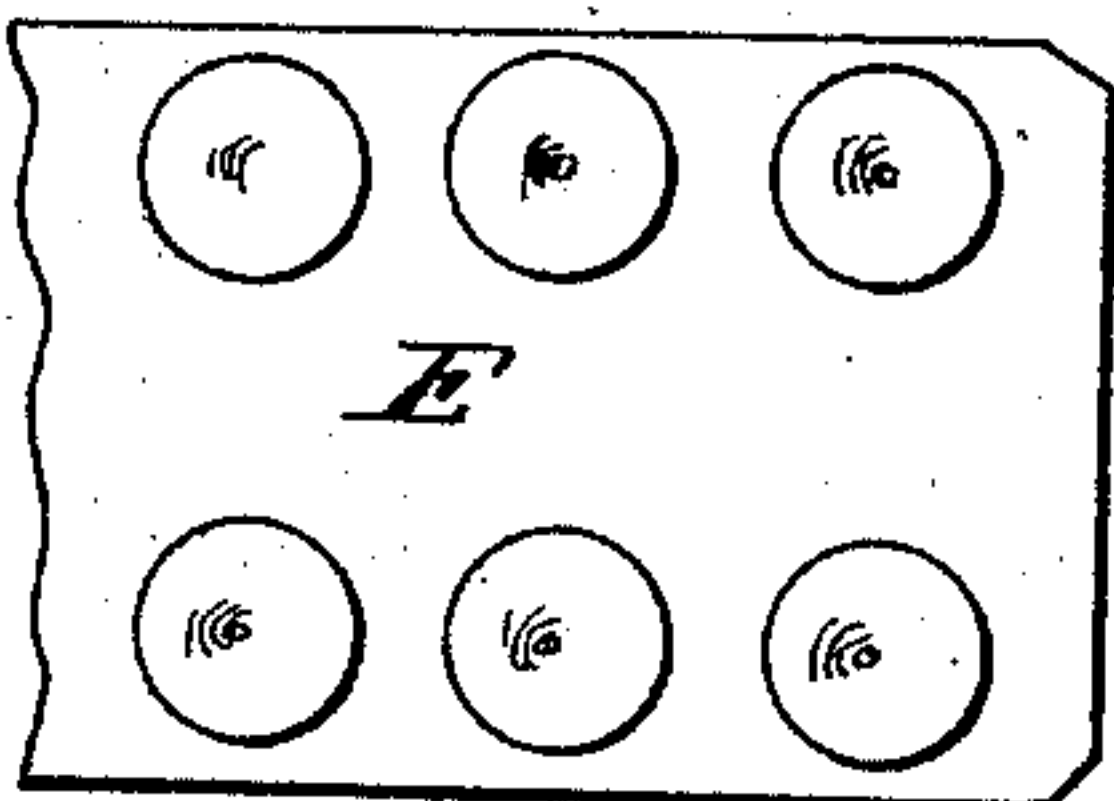


Fig 3

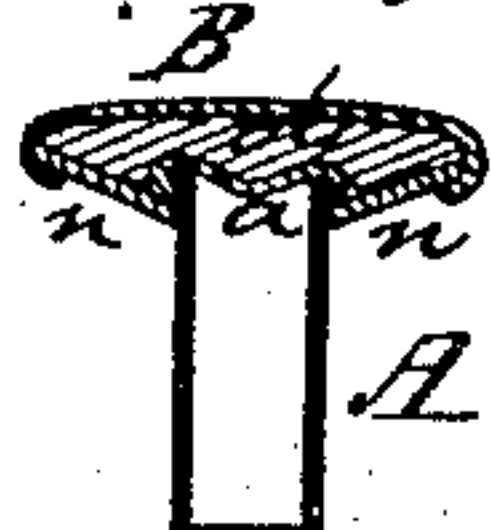


Fig 5

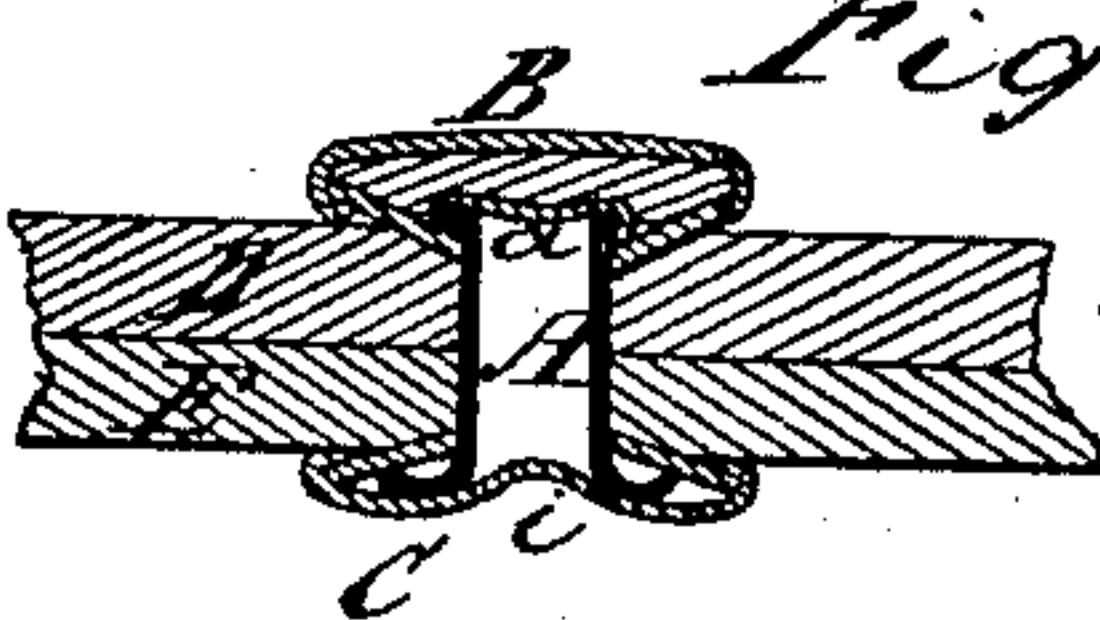


Fig 4

Witnesses

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ELONZO S. WHEELER, OF WESTPORT, CONNECTICUT.

IMPROVEMENT IN RIVETS.

Specification forming part of Letters Patent No. 80,791, dated August 4, 1868.

To all whom it may concern:

Be it known that I, ELONZO S. WHEELER, of Westport, in the county of Fairfield and State of Connecticut, have invented a new and Improved Rivet; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, one surface; Fig. 2, the reverse surface, showing the two faces or heads of the rivets; Fig. 3, one part; Fig. 4, the other part of the rivet; and, in Fig. 5, a sectional view.

This invention is designed with special reference to the manufacture of mail-bags, but is alike applicable for other purposes; and the invention consists in a tubular rivet formed with a head upon one end and so that in the act of pressing a head upon the other end the last head is securely attached to the rivet.

In order to the clear understanding of my invention, I will fully describe the same as illustrated in the accompanying drawings.

I will first describe the construction of the rivet, as illustrated in Fig. 3.

A is a tube formed from sheet metal, and provided at one end with a head, *a*, the said head *a* attached to or formed upon the tube so as to form a rim around the tube, as seen in Fig. 3. This tube I insert through a plate, *n*, then over this a filling of any suitable material, as pasteboard, and over this a cap, B, closed down over the plate *n*, so as to firmly secure the tube-plate *n* and cap B together, as it were, in one piece. The plate *n* is made slightly convex or conical upon the under side, as seen in Fig. 3.

The head is formed, as seen in Fig. 4, by a plate, C, closed onto the convex or conical plate *f*, so as to secure the two parts together, the plate *f* having a perforation at *h*, so as to allow the tube A to pass freely therethrough. Into the plate C, I form an indentation, *i*, and the head is complete.

The two parts D and E of the leather (seen in Fig. 5) are placed together and punched to permit the tube A to pass therethrough. Then the head C is set on the tube and placed under a suitable press. The tube A is spread within the tube C, so as to secure the head C firmly to the tube and the two parts of

leather firmly together. The peculiar form of the head serves to facilitate the operation of spreading the tube; but this form may be made by the addition of material onto the plate C, or by the indentation, as shown; or the indentation may be made by the press which secures the head to the rivet.

The advantages of this rivet for securing leather or similar flexible material are, that by the rivet in common use the head is flat upon the under side, or nearly so, and the edge of the head does not bear hard upon the leather, whereas in the head B of this rivet the turned-over edge of the head B is drawn down hard upon the material, so as to form a bearing at the extreme edge of the head; also, in the common rivet, a washer is placed upon the opposite side to the head, and the process of heading the rivet upon the washer causes the edges of the washer to turn up, so that the washer practically bears only at the body of the rivet, whereas in my invention the edge of the head C is supported so that the principal bearing of that head is like the head B at its extreme edge.

In the use of the common rivet, as before described, having its bearing practically only at the body of the rivet, the materials used in this manner are easily torn from the rivet, whereas in my improvement there is no liability of such tearing away.

In securing the head C, the instrument may, if preferred, pass through a perforation in the center of the head C, and thus in some cases facilitate the process of riveting.

This rivet is peculiarly adapted to the manufacture of mail-bags of leather or other flexible materials, and alike applicable to securing similar materials for other purposes.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

A rivet consisting of a tube, A, with its head B formed or attached thereon, substantially as described, with its corresponding head C constructed so as to be attached thereto, as herein set forth, as a new article of manufacture.

ELONZO S. WHEELER.

Witnesses:

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