

W. H. Reed,
Button.

No. 62153.

Patented Feb. 19. 1867

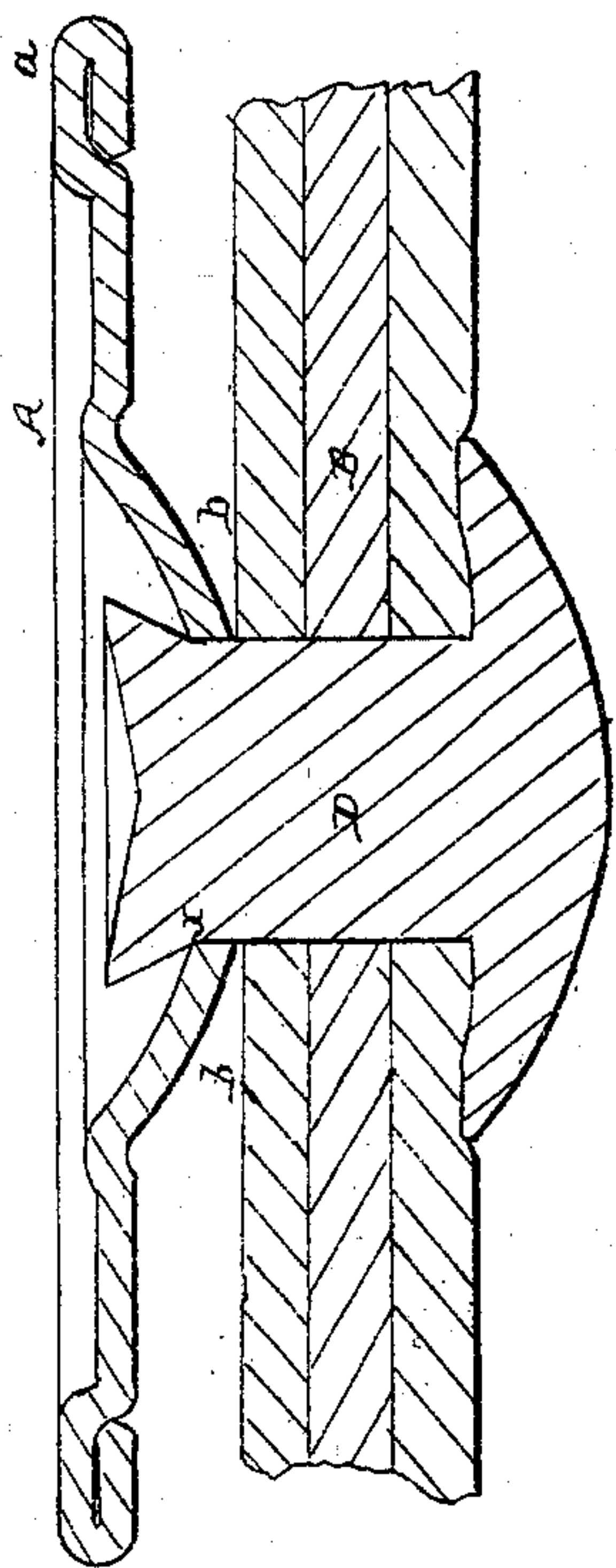


FIG. 2.

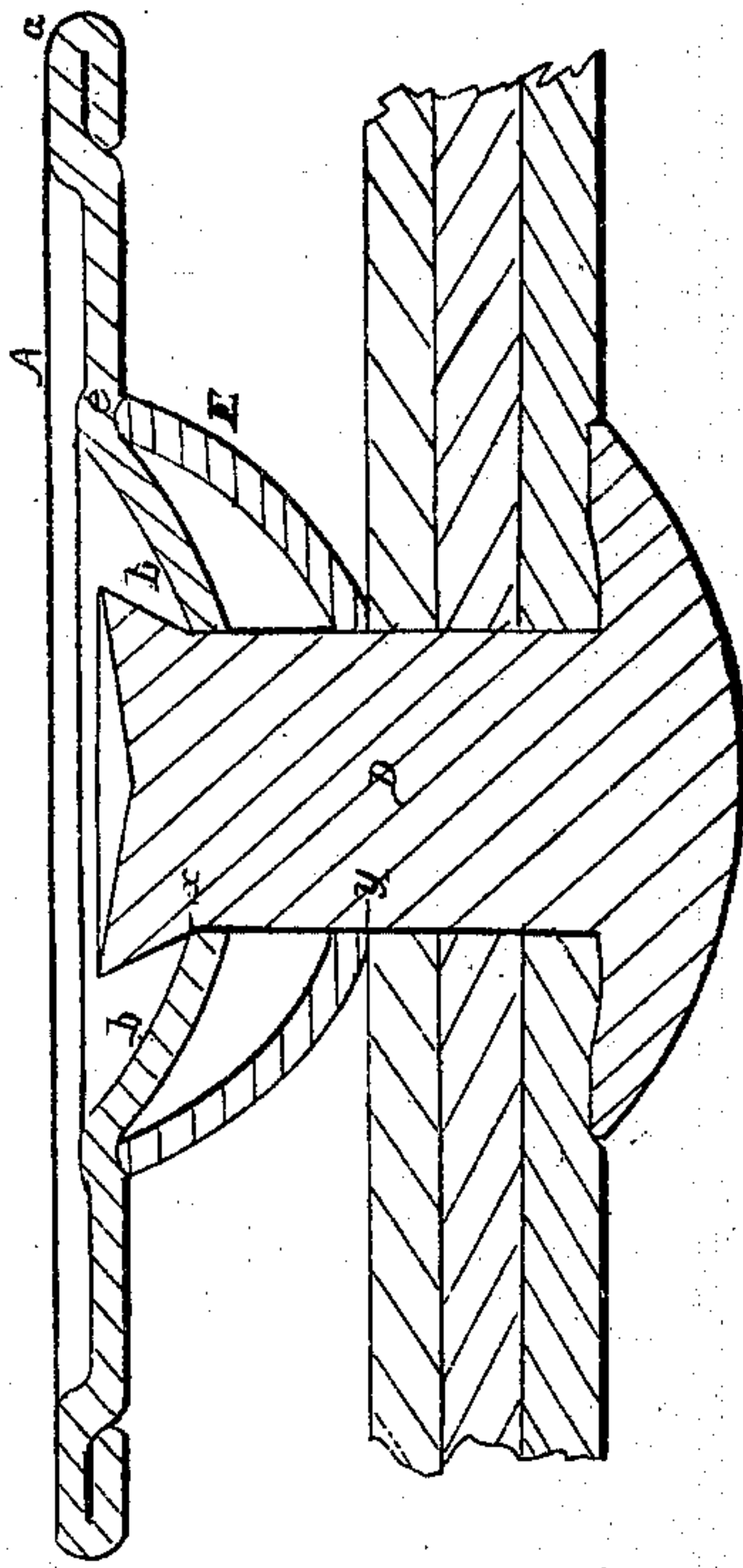


FIG. 1

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M^r Albert Steel.

W. H. Reed
By his Att
J. H. Lawrence

United States Patent Office.

WILLOUGHBY H. REED, OF NEW YORK, N. Y.

Letters Patent No. 62,153, dated February 19, 1867.

IMPROVEMENT IN BUTTONS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLOUGHBY H. REED, of the city, county, and State of New York, have invented an Improvement in Buttons; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention consists of a concavo convex disk, formed in respect to a projection at the back of a button, and having its edge adapted to an annular recess or indentation in the same, all as described hereafter, so that the cheap buttons stamped from scraps of tinned plate may be firmly secured to articles of wearing apparel by riveting.

In order to enable others to make and use my invention, I will now proceed to describe the manner of carrying it into effect. On reference to the accompanying drawing, which forms a part of this specification—

Figure 1 is a sectional view (drawn to an enlarged scale) of my improved button; and

Figure 2, a sectional view of a button without my improvement, and illustrating the advantages of the latter.

On reference to fig. 2, A represents a button, stamped from a disk of ordinary tinned plate, the edge *a* being folded down, as illustrated, and a depression being made in the middle, so as to form the convex projection *b* at the back. B is the fabric, through which passes the rivet D, the head of the latter bearing against the back of the said fabric, and the stem passing through an eye in the projection *b*, and the end of the stem being expanded by riveting the same within the depression. Buttons made from tinned plate are remarkably cheap, as they can be stamped out of scraps which would otherwise be wasted. They are effective buttons, too, if properly secured to the fabric; but when attached by a rivet, as illustrated in fig. 2, the constant strains on the button exert such a leverage on the rivet, and the material of which the button is composed is so thin, that it soon becomes bent or worn, and sometimes torn at the eye, and loose on, and sometimes detached from, the rivet. I overcome this difficulty, and render the tinned plate button available for being riveted to fabrics, by the plan illustrated in fig. 1. In this case I use a button, A, similar to that described above; but instead of riveting it directly to the fabric, I interpose between the latter and the button the concavo-convex disk E, which is also stamped out of tinned plate, and the upper edge of which fits into an annular groove, *c*, formed at the back of the button, where the convex projection meets the straight portion of the same. The convexity of this projection *b* at the back of the button does not coincide with the concavity of the disk, but the form of the two is such that a space, *e*, intervenes between them, as seen in fig. 1. On the button and disk E being riveted to the fabric; the two become essentially a part of each other, the edge of the disk E being so confined to the button that lateral displacement of one from the other cannot take place; hence the disk gives to the button a bearing surface against the rivet extending from *x* to *y*—a bearing surface sufficient to resist all strains to which the button may be subjected, and obviating the defects above alluded to.

I claim as my invention, and desire to secure by Letters Patent—

The concavo-convex disk E formed in respect to the projection *b* on the button, and having its edge adapted to an annular recess or indentation in the same, all as set forth for the purpose specified.

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

WILLOUGHBY H. REED.

Witnesses:

JAMES UNDERHILL,

ABM. UNDERHILL.