

**J. E. RICHARD.**  
**Belt-Fastenings.**

No. 147,690.

Patented Feb. 17, 1874.

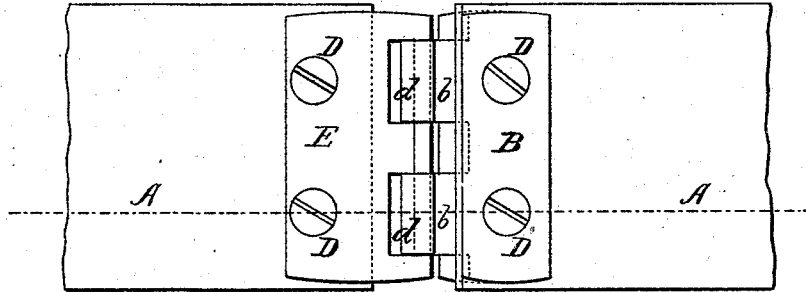


Fig. 1.

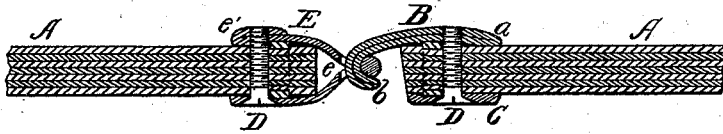


Fig. 2.

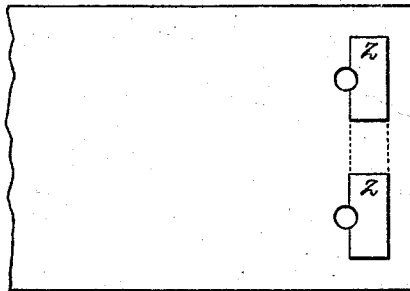


Fig. 3.

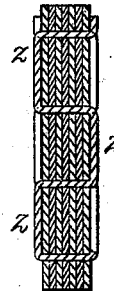


Fig. 4.

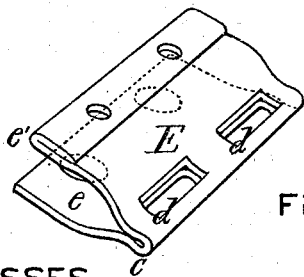


Fig. 5.

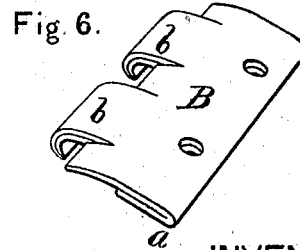


Fig. 6.

WITNESSES.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN BELT-FASTENINGS.

Specification forming part of Letters Patent No. **147,690**, dated February 17, 1874; application filed June 23, 1873.

*To all whom it may concern:*

Be it known that I, JEAN E. RICHARD, of Columbia, in the county of Richland and State of South Carolina, have invented a new and valuable Improvement in Belt-Fastenings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my belt-fastening. Fig. 2 is a longitudinal section of the same. Fig. 3 is a detail view. Fig. 4 is a cross-section. Fig. 5 is a view of the eye-plate, and Fig. 6 of the hook-plate.

This invention has relation to means for securing the ends of belts together; and it consists in the construction and novel arrangement of the hook and eye plates, the clamp-screws, and the strips of lacing-leather or other suitable material, sewed or interlaced through suitable perforations across the ends of the belts between the clamps, as hereinafter more fully described.

In the accompanying drawings, the letter A designates the ends of the belt. On these belt ends, respectively, are secured the hook and eye plates. B designates the hook-plate, economically and strongly made of sheet or thin plate metal by doubling, the bend being preferably at the rear edge *a* of the plate, so that the layers composing the hooks *b* will remain in contact with each other under a strain. C indicates the clamp-plate, which is placed on the opposite side of the belt from the hook-plate. This plate is perforated and countersunk to suit the clamp-screw D, the ends of which engage with female screw-threads cut in perforations in the hook-plate B. E represents the eye-plate, formed by doubling thin

metal at the forward edge *c*, so that the eyes *d* will be made through both layers, and will be strengthened by the doubling in front. In rear of the eyes the layers of metal separate to form the clamping portions *e*, embracing the end of belt. One of these branches *e* is doubled at *e'*, and provided with threaded perforations through said doubled portion to engage with threaded ends of the clamp-screws, the heads of said screws engaging with countersunk perforations in the other branch. Between the belt end and the perforations thereof, through which the clamp-screws pass, are transversely arranged the strips *z* of lacing-leather or other flexible material, which are secured to the belt by being sewed therein, or passed back and forth through a transverse series of perforations. These strips are designed not only to strengthen the ends of the belt, but also to exert a wedging action in connection with the clamping plates and screws, whereby any strain in the direction of the belt will tend to consolidate and secure the fastening devices to the belt ends.

What I claim as new, and desire to secure by Letters Patent, is—

1. In connection with the fastening-clamps and clamp-screws, the strips *z*, transversely interlaced across the belt ends between the clamp-plates, as specified.

2. In a belt-fastening, the hook and eye plates B and E, formed of sheet metal by doubling the same, as described, for the threaded perforations, and for strengthening, respectively, the hook and eye portions, as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JEAN E. RICHARD.

Witnesses:

D. B. MILLER, JR.,  
W. S. HANAHAN.