

(No Model.)

R. McCOMBS.
BELT FASTENER.

No. 453,019.

Patented May 26, 1891.

Fig 1

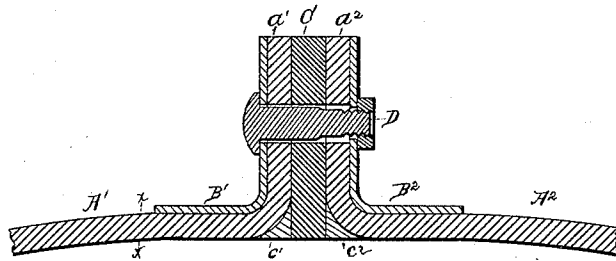


Fig 2

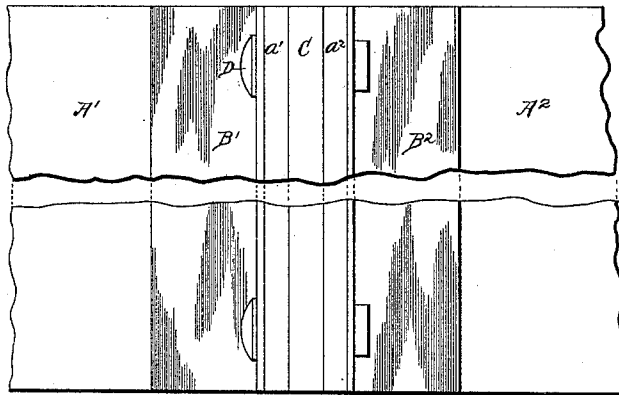


Fig 3

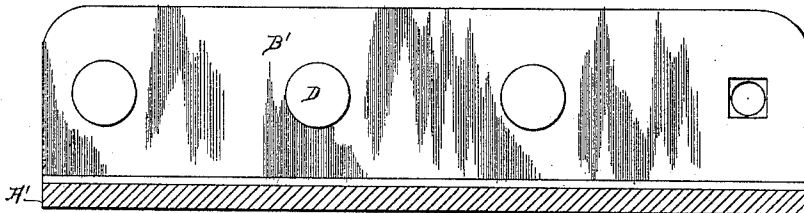
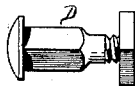


Fig 4



Witnesses
C. H. Ferguson
Wm. M. Cliff

Inventor
Robert McCombs
By his Attorney
Edwin H. Brown

UNITED STATES PATENT OFFICE.

ROBERT MCCOMBS, OF FAIRFIELD, MAINE, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO HARRIET N. TAYLOR, OF SAME PLACE.

BELT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 453,019, dated May 26, 1891.

Application filed September 27, 1890. Serial No. 366,399. (No model.)

To all whom it may concern:

Be it known that I, ROBERT MCCOMBS, a citizen of the United States, and a resident of Fairfield, in the county of Somerset and State of Maine, have invented certain new and useful Improvements in Belt-Fasteners, of which the following is a specification.

The object of this improvement is to provide a simple and efficient fastener for the ends of strips forming belting.

This improvement consists in the combination, with the end portions of a strip of belting bent outwardly at the extremities, of metal clamping-pieces bent at an angle between their edges, so as to be capable of bearing against the outwardly-bent extremities of the strip of belting and also against the main portion of the said strip of belting, and bolts passing through said metal clamping-pieces and the outwardly-bent extremities of the strip of belting.

In the accompanying drawings, Figure 1 is a longitudinal section of the end portions of a strip of belting and a sectional view of metal clamping-pieces and appurtenances embodying the improvement. Fig. 2 is a top view of the same. Fig. 3 is a view taken transversely to the strip of belting at the plane of the dotted line $x x$, Fig. 1. Fig. 4 is a side view of one of a number of bolts which appear in the other figures.

Similar letters of reference designate corresponding parts in all the figures.

A' A² designate the end portions of a strip of belting. It will be seen that the extremities $a' a^2$ turn outwardly.

B' B² designate clamping-pieces, which preferably will be made of iron, but which can be made of any other material.

C designates a piece of material introduced between the outwardly-turned extremities $a' a^2$ of the strip of belting. Preferably this piece C will be made of the same material as the belt, and will be extended laterally at the inner edge to fill the space between the rounding portions of the outwardly-turned extremities of the strip of belting. As here shown, the lateral extensions of the piece C are made by cementing small strips $c' c^2$ of material of triangular cross-section to the said piece.

It will be seen that the thin metal clamp-

ing-pieces are of angular cross-section and are bent between their longitudinal edges, so that one part of each clamping-piece may rest upon the outer side of the main portion of one end of the strip of belting and the other part against the outwardly-turned extremity of the same end portion of the strip of belting.

Bolts D are passed through the outwardly-turned parts of the clamping-pieces, through the outwardly-turned extremities of the strip of belting, and through the interposed piece C. The bolts near their edges are made polygonal, and the holes in the clamping-piece B', through which said bolts pass, are made of similar contour. Hence the bolts are incapable of turning relatively to the clamping-piece B'. The nuts of the bolts are applied outside the clamping-piece B².

The belt-fastener thus made is very simple, but extremely efficient. The clamping action of the bolts takes all the strain from the holes in the extremities of the strip of belting through which the bolts pass, wherefore there is little danger of the belt turning away at the joint. It will be seen that the outwardly-bent extremities of the strip of belting are supported both on the inside and on the outside.

What is here claimed as an invention, and desired to be secured by Letters Patent, is—

The combination, with the end portions of a belt bent outwardly at the extremities of a piece of material C, introduced between the outwardly-bent extremities, strips $c' c^2$, triangular in cross-section, cemented to and forming lateral extensions at the inner end of the piece C, clamping-pieces of thin metal bent between their longitudinal edges exterior to the edges of the belt, and bolts passing through said clamping-pieces, the outwardly-bent ends of the belting, and the piece C, said bolts having angular portions and one of said clamping-pieces having angular openings for the passage of the bolts, substantially as specified.

Signed at Fairfield, in the county of Somerset and State of Maine, this 15th day of May, A. D. 1890.

ROBERT MCCOMBS.

Witnesses:

E. W. MCFADDEN,
H. E. TUCK.