(No Model.)

H. C. HERR.

BELT FASTENER.

No. 382,305. Patented May 8, 1888.

Fig.1.

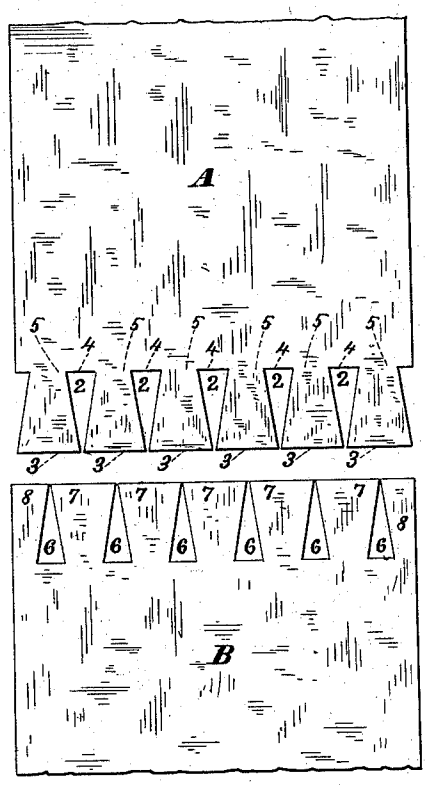


Fig.2.

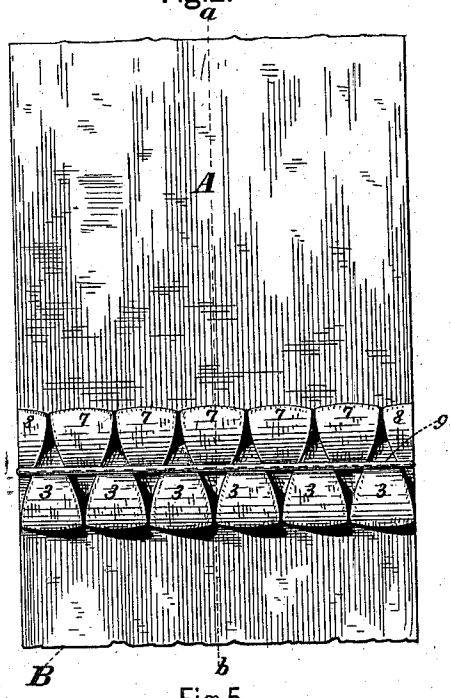


Fig.3.

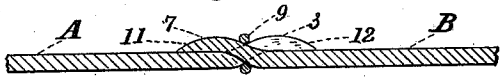


Fig.4.

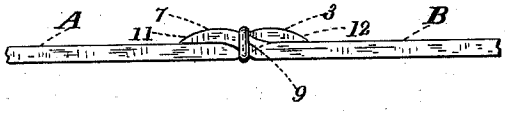
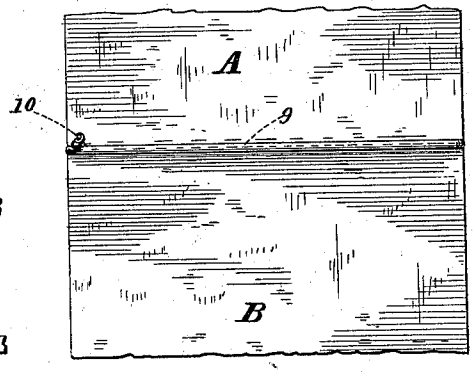


Fig.5.



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UNITED STATES PATENT OFFICE.

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BELT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 382,305, dated May 8, 1888.

Application filed March 10, 1888. Serial No. 266,888. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. HERR, a citizen of the United States, residing at Williamsville, in the county of Erie and State of New York, have invented certain new and useful Improvements in Belt-Fastenings, of which the following is a specification.

My invention relates to machinery-belting and to a new and improved means for securing the ends of the belts together without the aid of lacing, and will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a face view of two pieces of leather belting, showing the two parts having dovetail openings and portions adapted to be put together and secured, as will be more clearly hereinafter shown. Fig. 2 represents two pieces of belting put together in accordance with my invention. Fig. 3 is a longitudinal section through line *a b*, Fig. 2. Fig. 4 is an edge view of a piece of belting put together and secured as shown in Fig. 2. Fig. 5 represents a back view of two pieces of belting put together as above described.

The end A of the belt to be secured together is provided with a series of dovetail openings, 2, put in by means of a belt-punch of the proper shape for cutting such openings. This operation leaves a series of dovetail portions, 3. The bottoms 4 of the openings 2, it will be seen, are made slightly narrower than the smallest portions 5 of the parts 3. The other portion, B, (or other end of the belt,) is provided with a series of punch-openings, 6, and dovetail portions 7. These openings 6 and portions 7 are exactly of the same size and shape as the openings 2 and portions 3, the only difference being their position on the end of the belt, the smallest ends of the openings 2 on the piece A being opposite the center of the portions 7 on the piece B, so that while there are six dovetail portions 3 shown in the part A, there are but five of the portions 7 in the part B, and two halves, 8, of such portions at each edge of the belt.

In putting the ends A B of the belt together, the portions 3 are each pressed into the openings 6, while the parts 7 are passed into the openings 2, and when all are in place, as shown in Fig. 2, a cord or wire, 9, is wound around the belt and the ends secured substantially as shown at 10 in Fig. 5.

The object in making the portions 5 a little wider than the parts 4 of the openings is to squeeze a little more material into the joint where the belt is put together, as in Fig. 2, than there is in the width of the belt, so as to make the joint capable of standing a little more strain than the rest of the belt. From actual test it has been found that other portions of the belt will break before the seam will separate.

The outer ends of the parts 3 and 7 should be chamfered off, as shown at 11 and 12 in Figs. 3 and 4. It is not absolutely necessary that this should be done; but it improves the appearance of the joint without reducing its strength.

I claim as my invention—

1. A belt for machinery having its ends united by a series of dovetail portions interlocked together and secured by a binding-piece surrounding the interlocked portions of the belt, substantially as described.

2. In a machinery belt, the combination of the portion A, having a series of dovetail portions, 3, and openings 2 with the portion B, provided with a series of corresponding dovetail portions, 7, and openings 6, the whole interlocked together and secured with a binding-wire, substantially as described.

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