

(No Model.)

H. C. HERR.  
BELT FASTENER.

No. 382,305.

Patented May 8, 1888.

Fig.1.

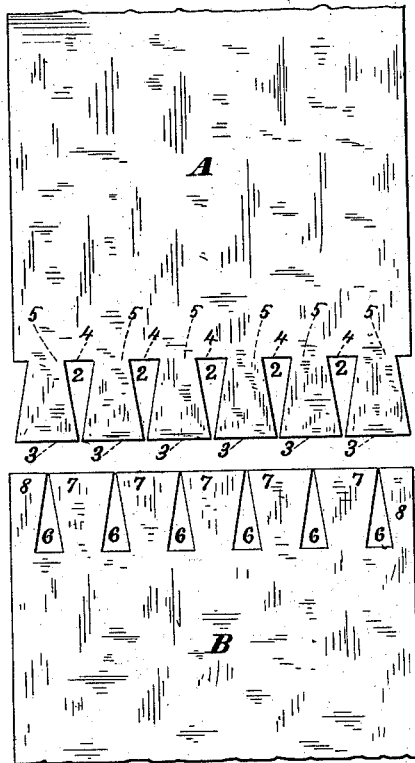


Fig.2.

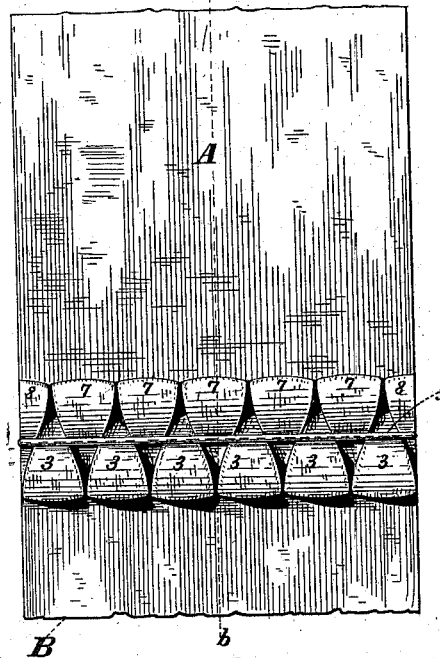


Fig.5.

Fig.3.

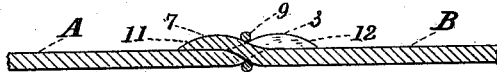
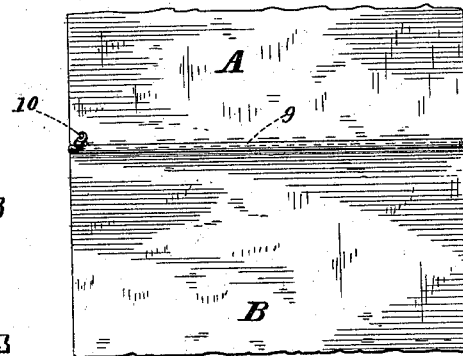
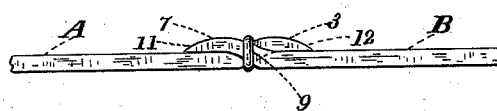


Fig.4.



Witnesses.

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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 Williams-ville, in the county of Erie and State of New York, have invented certain new and useful Improvements in Belt-Fasteners, of which the following is a specification.

My invention relates to machinery-belt-  
ing and to a new and improved means for secur-  
ing 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 accord-  
ance with my invention. Fig. 3 is a longitudi-  
nal section through line *a b*, Fig. 2. Fig. 4  
is an edge view of a piece of belting put to-  
gether and secured as shown in Fig. 2. Fig.  
5 represents a back view of two pieces of belt-  
ing 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 opera-  
tion 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 por-  
tions 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 por-  
tions 7. These openings 6 and portions 7 are  
exactly of the same size and shape as the open-  
ings 2 and portions 3, the only difference be-  
ing 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 dove-  
tail 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 open-  
ings 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 por-  
tions 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 inter-  
locked 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 por-  
tions, 3, and openings 2 with the portion B,  
provided with a series of corresponding dove-  
tail portions, 7, and openings 6, the whole in-  
terlocked together and secured with a binding-  
wire, substantially as described.

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Witnesses:

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