

K. AUFINSON.

FASTENER.

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1,013,469.

Patented Jan. 2, 1912.

FIG. 1.

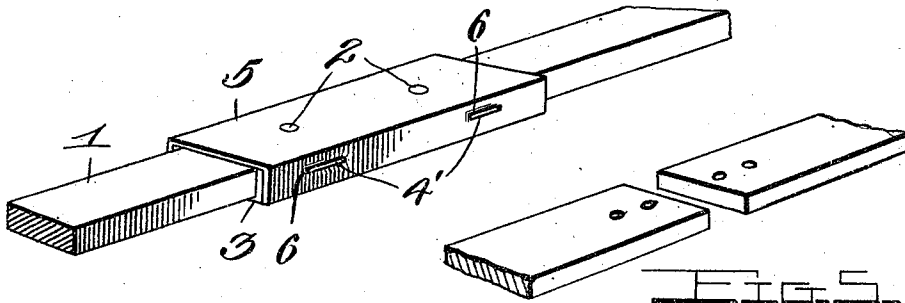


FIG. 2.

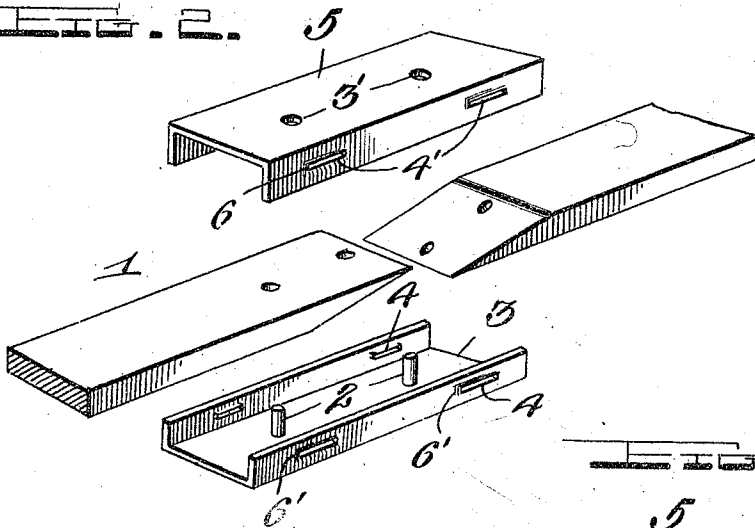


FIG. 3.

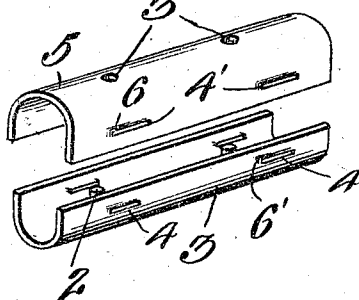
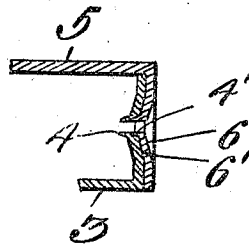


FIG. 4.



Witnesses

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FASTENER.

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To all whom it may concern:

Be it known that I, KNUT AUFINSON, a citizen of the Dominion of Canada, residing at Pelly, in the Province of Saskatchewan and Dominion of Canada, have invented certain new and useful Improvements in Fasteners, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to fasteners, couplings and belts which are used for connecting parts of belts, belting, harness and the like together.

The object of my invention is to provide means for fastening pieces of leather and the like securely together without the use of tools and at the same time readily and quickly.

Another object is to provide a fastener for belts and the like which can be easily and cheaply manufactured and at the same time, have the desirable characteristic of strength and compactness, which such fasteners usually have.

A further object is to provide a fastener which can be made removable and reuseable and free from projecting or conspicuous parts.

Further objects will become apparent as my invention is more fully set forth.

In the drawings which illustrate by way of example embodiments of my invention Figure 1 is a perspective view of a fastener embodying my invention securing parts of a belt together; Fig. 2 is a perspective detail of the parts detached of a fastener embodying my invention; Fig. 3 is another form of fastener; Fig. 4 is a detail of the fastening slots used in my fastener; and Fig. 5 represents a leather piece arranged to be fastened when it is not desired to bevel the ends of the same.

Similar reference characters refer to similar parts throughout the drawings.

In the drawings 1 represents a belt which is provided preferably with wedge shaped ends as shown and drilled with holes spaced apart to receive projections 2 on a channel plate 3 of the lower portion of a fastener. 4 are the struck up projections at the edges of slots in the sides of the channel 3 punched inwardly so that they have projecting portions which rub and engage with the sides of the belt 1. Another channel plate 5 is adapted to fit over the channel plate 3 and is provided with holes 3' spaced apart to

receive the posts 2 of the lower plate 3. 4' are struck up projections at the edges of slots punched inwardly and adapted to fit into the slots of the lower piece. In punching these slots inwardly a slight depression 6 is made in the sides of the channels so that when the upper piece 5 is pressed down on the lower piece 3 the depression 6 will wedge into the depression 6' as well as the projecting portions 4' into 4.

In operation the wedge shaped ends of the belt are placed over one another so as to make a continuous fitting section and then the holes are punched in them for the posts 2. The lower piece 3 is then placed in position on the lower side of the plate and has its pins 2 projecting through said holes, and then the upper piece 5 is placed over the channel piece 3 and quickly pressed down thereon. When set the posts 2 project into the holes 3' and come flush with the upper surface of the channel plate 5 and the depressions 6' and projections 4' of the slots lock into the depressions 6 and the slots. It will be seen that to remove the upper plate off the lower plate that it is only necessary to pry at one of the sides and unlock the slot projections 4' and depressions 6' from out of the slots and depressions 6 of the lower plate in order to unlock and separate them.

The construction of this device is so arranged that the pulling strain coming on the posts tends to pull on the belt which takes up a part of the strain. The rest of the strain is taken up by the fastener itself as can be easily seen from the figures. The posts are arranged so as to be relieved of any tendency to bend them on their supports, the locking portions also tending to take up some of the strain and putting it on the sides of the channels which in all makes a very strong joint for a belt, harness, or the like.

The advantages of this device are that it takes up relatively so little room that it can be used in many more locations where a more unwieldly fastener would be objectionable. There are no projecting portions on the outer sides of this fastener which eliminates the danger of tearing hands so prevalent among common forms. The strength of the device is obvious while its simple construction makes its cost of manufacture practically insignificant which makes this style of fastener much more desirable for

ordinary use. The ease of mounting this device in position on a belt or the like together with the ease of removing it and releasing it all tend to increase the efficiency of this invention.

Obviously while I have shown my construction in circular and rectangular shapes I anticipate the use of the same style of fastener in many other shapes and I do not wish to limit myself in any way except that necessitated by the prior art because many modifications of construction can be made within the scope of the appended claim without departing from the principles thereof.

Having thus described the invention what is claimed is;

A fastener for belts comprising in combination a plurality of pieces of material hav-

ing side flanges having depressions therein and slots at the bottom of said depressions and the portions surrounding said slots struck up inwardly, the flanges being arranged so that they will overlap one another and so that those overlapped will receive the struck-up portions of the overlapping flanges within their depressions and slots and be held thereby, said struck-up portions of the overlapped flanges being adapted to engage with the belt held by said fastener, so that the belt will be held together thereby.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

KNUT AUFINSON.

Witnesses:

ISABEL CARMENT,
W. B. CARMENT.