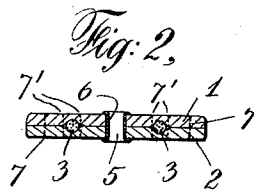
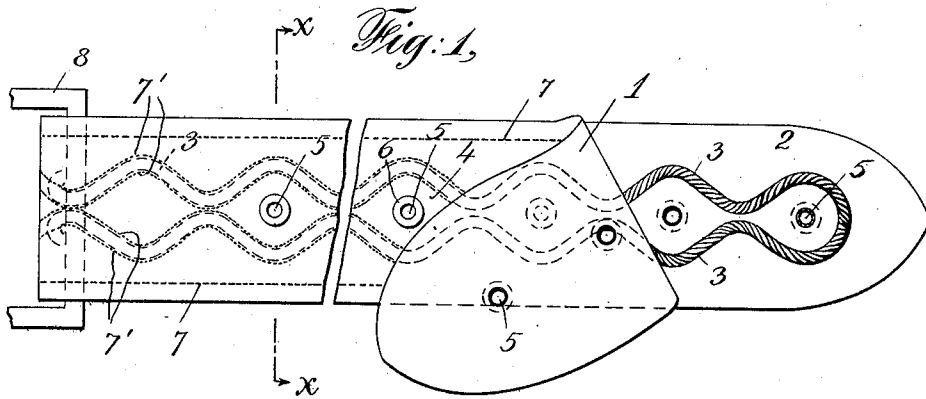


T. S. HALL.
 REINFORCED STRAP.
 APPLICATION FILED FEB. 28, 1912.

1,058,427.

Patented Apr. 8, 1913.



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS SHAW HALL, OF NEW YORK, N. Y.

REINFORCED STRAP.

1,058,427.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed February 28, 1912. Serial No. 680,512.

To all whom it may concern:

Be it known that I, THOMAS SHAW HALL, a citizen of the United States of America, and a resident of New York city, county and State of New York, have invented certain new and useful Improvements in Reinforced Straps, of which the following is a specification.

My invention relates to improvements in straps, and comprises a strap of leather, fabric or other suitable material having a metallic reinforcement whereby the structure is strengthened, and whereby the cutting of the strap is rendered difficult.

My improved strap is adapted for use as a trunk strap, also for use in harness and for various other uses.

The object of my invention is to produce a strap which, while quite flexible, is stronger than ordinary straps, and is also more difficult to cut.

I will now proceed to describe my invention with reference to the accompanying drawings, illustrating one embodiment of my invention, and will then point out the novel features in claims.

In said drawings: Figure 1 shows a top view of one form of strap embodying my invention, one layer of the strap having been turned back to disclose the reinforcing cable. Fig. 2 shows a transverse section of the strap taken on the line $x-x$ of Fig. 1.

The strap shown in the drawings comprises upper and lower layers, 1 and 2, of a flexible material suitable for use in the construction of straps; leather, rubber-coated canvas, and canvas or other fabric being suitable materials. Between these layers 1 and 2 are interposed lengths 3 of suitable metallic reinforcing material—the particular material shown being wire cable. As shown, the reinforcing members 3 are laid zig-zag between members 1 and 2, the zig-zags of the two members being opposite each other and being in opposite directions, so that spaces 4 are provided, in which spaces may be holes 5 for the tongue of a buckle or other suitable device. I have indicated eyelets 6 within these holes, said eyelets serving to secure the layers 1 and 2 together. Layers 1 and 2 are further secured together by rows of stitches 7 near the edges; and other rows of stitches 7' are located on each side of the members 3; the

stitches and the eyelets together holding the layers 1 and 2 together so tightly as to hold reinforcing members 3 in place, and to put said members 3 under tension when layers 1 and 2 are under tension.

In Fig. 1 I have indicated my improved strap as connected to a portion 8 of a buckle.

It is obvious that the reinforcing members 3 greatly strengthen the strap, and also tend to prevent cutting of the strap, since the strap cannot be cut far before one of the reinforcing members 3 is encountered, and these members 3 are rather difficult to cut except by means of metal-cutting tools. Members 3 also stiffen the strap transversely.

What I claim is:—

1. A reinforced strap such as described, comprising a plurality of layers of flexible material and a plurality of flexible reinforcing members, between said flexible layers, and extending generally longitudinally of the strap, means securing said flexible layers together outside of said reinforcing members, and means securing said flexible layers together at points between said reinforcing members, said reinforcing members being laid zig-zag between said flexible members, the zig-zags of said reinforcing members being opposite each other and being in opposite directions.

2. A reinforced strap such as described, comprising a plurality of layers of flexible material, and a plurality of reinforcing members laid zig-zag between said flexible layers, but extending generally longitudinally of the strap, the zig-zags of said reinforcing members being opposite each other and being in opposite directions, whereby spaces are formed between said reinforcing members at intervals, means securing said flexible layers together outside of said reinforcing members, and means located in the said spaces formed by the zig-zags of said reinforcing members, securing the flexible layers together between said reinforcing members.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

THOMAS SHAW HALL.

Witnesses:

H. M. MARBLE,
D. A. DAVIES.