

G. L. ROCK.
STRAP AND FASTENER.
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1,420,148.

Patented June 20, 1922.

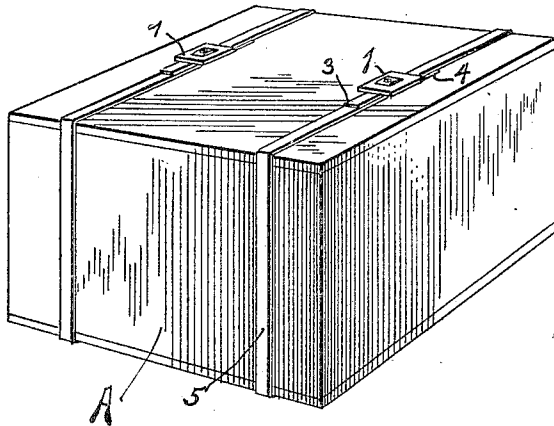


Fig. 1

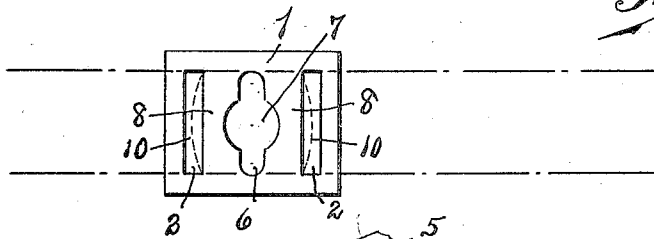


Fig. 2.

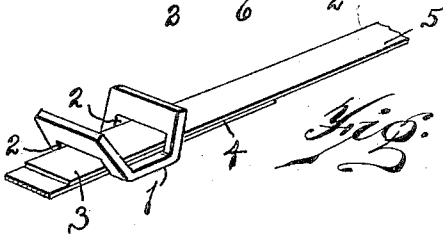


Fig. 3.

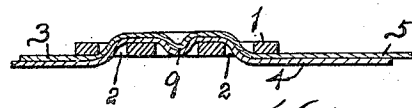


Fig. 5.

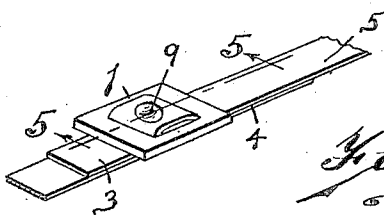


Fig. 4.

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GEORGE L. ROCK, OF WAUKESHA, WISCONSIN.

STRAP AND FASTENER.

1,420,148.

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To all whom it may concern:

Be it known that I, GEORGE L. ROCK, a citizen of the United States, and residing at Waukesha, in the county of Waukesha and State of Wisconsin, have invented a new and Improved Strap and Fastener, of which the following is a specification.

This invention relates to means in the form of metal ribbons for banding and securing boxes, bales and other packages, and its object is to provide a reliable connection between the ends of such metal ribbons which will positively secure such ends together with minimum trouble, and which can be made at low cost.

This invention consists of a metal ribbon and a plate of metal provided with two parallel slots through which, when the plate is bent parallel to these slots, the ends of the ribbon may be inserted from opposite directions so that they overlap within such slots, after which the fastener is bent flat to cause the lapping ends of the ribbon to be kinked sufficiently to lock them together.

This invention further consists in the details of construction illustrated in the accompanying drawing and particularly pointed out in the claims.

In the accompanying drawing, Fig. 1 is a perspective view of a box secured by means of two straps whose ends are fastened together by means of my improved buckle. Fig. 2 is a plan of the buckle. Fig. 3 is a perspective of the buckle and the ends of the strap extending through it before the buckle is flattened and Fig. 4 is a similar view after the buckle is flattened. Fig. 5 is a section on the line 5—5 of Fig. 4.

Similar reference characters refer to like parts throughout the several views.

Boxes and bales are often secured by means of straps, ties or bails of thin metal ribbon and various tools have been designed to tighten them around the articles bound thereby. The buckle shown in the drawing is designed to prevent the ends of the strap from separating after being tightened and is preferably stamped from sheet metal. It is shown to be a rectangle 1 having end slots 2 through which the ends 3 and 4 of the

strap 5 extend, the buckle being bent up to substantially V-shape to permit the ready insertion of the ends of the strap.

A central slot 6 has a central enlargement 7 which weakens the intermediate cross bars 8. After the strap has been tightened around a package A, the buckle is bent flat, as shown in Figs. 1, 4 and 5, which usually so kinks the overlapping ends of the strap as to prevent movement between them. When it is desired to so lock the parts together as to prevent separation without destruction of the buckle or the strap ends, a center punch may be employed to drive down the central portion 9 of the straps into the central enlargement 7 of the buckle, as shown in Fig. 5. If this is carried out to its maximum limit, the central cross bars 8 become bent, as indicated by the dotted lines 10 in Fig. 2. This causes these cross bars to grip the strap ends and prevents the buckle being bent, as shown in Fig. 3, to release the strap ends. This central slot may be omitted if desired.

The sizes of these buckles, their general shape and the proportions of their several parts may all be varied by those skilled in the art without departing from the spirit of my invention as set forth in the following claims.

I claim:—

1. A bale strap and fastener comprising a metal ribbon having overlapping ends and a metal plate having three parallel slots, the overlapping ends of the ribbon extending through the outer slots and the metal of the overlapping ends of the ribbon being forced down into the central slot.

2. A bale strap and fastener comprising a metal ribbon having overlapping ends and a metal plate having three parallel slots, the overlapping ends of the ribbon extending through the two outer slots and across the inner slot, the cross bars between the slots in the plate being reduced in width at the middle, and the metal of the overlapping ends of the ribbon being forced down into the center of the middle slot sufficiently to bow out the said cross bars.

GEORGE L. ROCK.