

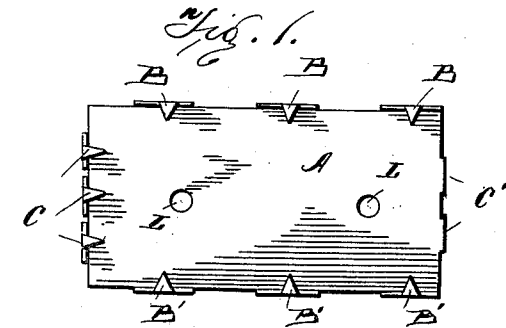
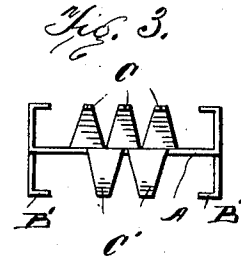
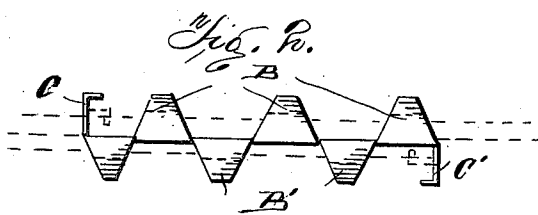
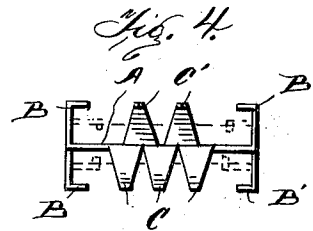
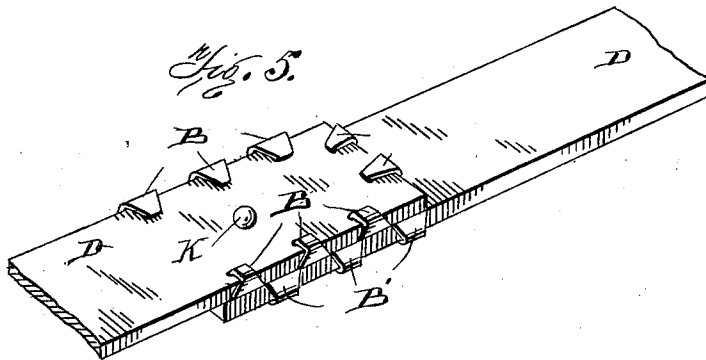
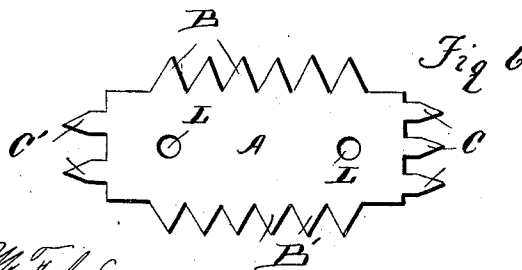
No. 686,711.

Patented Nov. 19, 1901.

R. E. CAIN.
BELT OR STRAP SPLICER.

(Application filed Feb. 25, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT E. CAIN, OF PLATTE CITY, MISSOURI.

BELT OR STRAP SPLICER.

SPECIFICATION forming part of Letters Patent No. 686,711, dated November 19, 1901.

Application filed February 25, 1901. Serial No. 48,679. (No model.)

To all whom it may concern:

Be it known that I, ROBERT E. CAIN, residing at Platte City, in the State of Missouri, have invented certain new and useful Improvements in Belt or Strap Splicers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to splicers for leather and similar straps.

The object of the invention is to produce a splice or coupling of two straps or the like.

My invention differs from most belt-couplers in that I pay no special attention to the production of a flat joint. The device is principally used for splicing harness-straps, tapes, and such flat articles as are desired to be joined.

Figure 1 is a plan view of my coupling-plate or splicer. Fig. 2 is a side elevation showing straps in dotted lines. Figs. 3 and 4 are end views. Fig. 5 is a perspective of a joint according to this invention. Fig. 6 is a plan of the coupling-plate before the points are bent.

A sheet-metal plate A is made with projecting points B B' at the sides and with points C C' at the ends. The plates are preferably rectangular, and by cutting from a sheet of metal with the points intermeshing, as is common in cutting paper-fasteners, &c., nearly all of the sheet of metal may be used, leaving little or no waste.

The points B are turned or bent to project upward, and the points B' are turned or bent to project downward from the body of the plate, as shown in Figs. 2, 3, 4, and 5, when the coupling-plate is in actual use in joining straps D D, as in Fig. 5. The metal of the plate A is pliable, like copper or annealed iron. The plate may be formed nearly to shape, as in Figs. 2, 3, and 4, before it is applied to the straps.

To make a splice or coupling, the body of the plate A is entered between the two straps, the ends of the straps coming against the end teeth C C' when the same are turned up or down. The points of the teeth B and C are then turned down into the body of the upper

strap by a suitable tool, such as a pair of pliers, or by driving the points down by a riveting-hammer, so that the extreme points of the teeth penetrate the leather, as shown in Fig. 5. The lower teeth B' and C' are turned under the lower strap and bitten into the same in similar manner. Thus alternate teeth (by preference) from the side of the plate extend up and down and over the edge of the straps, biting into the outer faces of the same and holding the straps firmly to the plate. The end teeth C C' are turned over and bitten into the ends of the straps, thus holding the ends firmly and preventing escape.

Where a very strong splice is needed, rivets, as K, may be passed through holes L in the plate A and through both straps.

The coupling-plate can be used as described in joining tapes, fabrics, and other materials in the same manner as described for straps.

In case the strap is wider than plate A the points B B' can be passed through holes in the leather and clenched on the outer face thereof. The construction of plate A need not be changed for this purpose.

What I claim is—

1. The combination with two strap ends, of an interposed metallic plate having side teeth extending past the edges of the straps and clasping into the faces alternately above and below, and end teeth projecting past the ends of the straps, and clasped into the opposite faces of the straps near the ends, substantially as described.

2. A coupling-piece for straps and the like, consisting of a flexible strip or plate of metal having teeth projecting from the sides and ends, said side teeth turned alternately up or down and the end teeth at one end extending downward in position for clasping a strap or like article.

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

ROBERT E. CAIN.

Witnesses:

M. C. PARK,
A. D. PARK.