T. Rudiger,

Belt Coupling.

No. 90,876. Patented June 1. 1869.

Fig. 2



Fig. 1

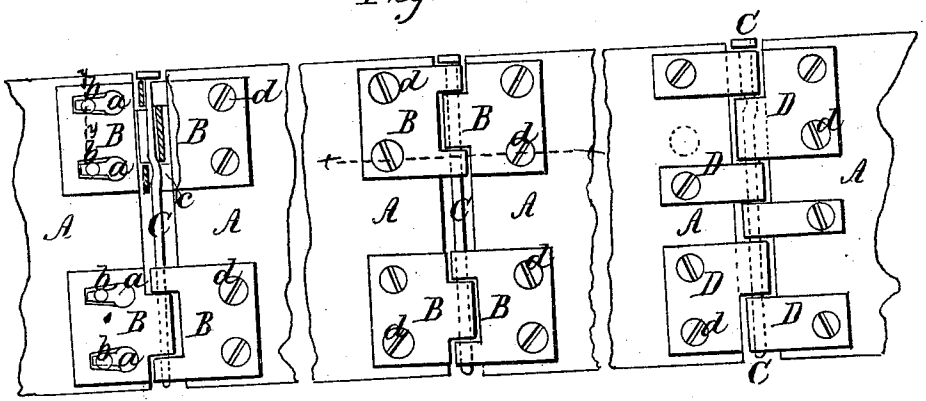


Fig. 3



Witnesses

Inventor

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THEODOR RÜDIGER, OF OBERLE'S CORNERS, MINNESOTA.

Letters Patent No. 90,876, *dated June* 1, 1869.

IMPROVED BELT-COUPLING.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THEODOR RÜDIGER, of Oberle's Corners, in the county of Carver, and State of Minnesota, have invented a new and improved Belt-Coupling; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a plan or face view of my improved belt-coupling.

Figure 2 is a detail longitudinal section of the same, taken on the plane of the line *x x*, fig. 1.

Figure 3 is a detail transverse section, on an enlarged scale, of the same, taken on the plane of the line *y y*, fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a novel manner of fastening the hinge-plates that constitute a belt-fastening, and to a new kind of connecting-pin; and

It consists, first, in the application of dovetail-headed pins, which are fitted through the belt and into tapering slots of the hinge-plates, so that the latter will be securely fastened, by means of the said pins, and still be readily removable when desired.

The invention consists, also, in the use of a single pivot-pin, by which all the hinge-plates on a belt are connected, said pin being slightly bent, so that it will be securely retained in the eyes of the hinge-plates.

A A, in the drawing, are the ends of a rubber, leather, or other belt to be connected.

B B are the hinge-plates. The same are made of sheet-metal, and are bent, to have their ends fitted upon the upper and lower surfaces of the belt-ends, and to form eyes opposite to said ends, as in fig. 2.

These plates I prefer to provide with tapering slots, *a a*, which, at their narrow parts, are provided with bevelled edges, as in figs. 1 and 3, and which, at their large ends, are adapted to receive the ends of pins, *b b*.

These pins are fitted through the belt, and have their ends projecting from the same. Their projecting ends are dovetailed, as shown in fig. 3, so as to fit over and lock the bevelled edges of the slots *a*.

The plates are secured to the pins by springing them over the ends of the same, until the pins fit into the large parts of the slots. The plates are then pulled until the narrow parts of the slots are held by the dovetail-heads of the pins, as in figs. 1 and 3. The plates on the two ends are then connected by the pivot, or connecting pin C, which is passed through the eyes formed by both sets of plates, as shown.

This pin retains all the plates on the pins *b*, preventing them from sliding back to be disengaged. It has a head at one end, and a blunt point at the other, and has a bend, *c*, formed in it, so that it will constitute a kind of spring-fastening. It is by this bend prevented from working loose spontaneously. When it is taken out, the belt-ends are at once disconnected, and all the plates B can be readily removed.

This pin C may also be used on plates D, which are fastened by means of screws, *d*, as in figs. 1 and 3.

In case I use the screws, I would prefer to have the lower part of the plate D, which receives the threaded end of the screw, made extra thick, to constitute a strong hold for the screw.

Having thus described my invention,

I claim as new in belt-fasteners, and desire to secure by Letters Patent—

1. The hinge-plates B, provided with the tapering bevel-edged slots *a*, when used in combination with the dovetail-headed pins *b*, substantially as herein shown and described, to operate as set forth.

2. The pin C, for connecting the two ends of a belt, when provided with one or more bent portions, *c*, substantially as and for the purpose herein shown and described.

THEODOR RÜDIGER. [L. S.]

Witnesses:
FREDERICK GREINEZ,
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