

(No Model.)

J. REED.
STRAP LOOP.

No. 530,056.

Patented Nov. 27, 1894.

Fig. 1.

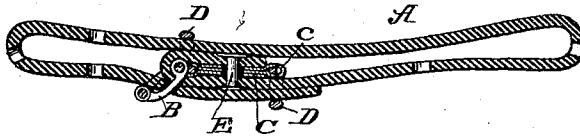


Fig. 2.

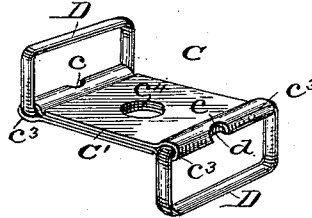


Fig. 3.

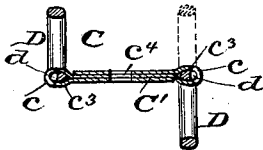


Fig. 4.

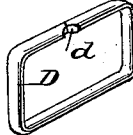


Fig. 5.

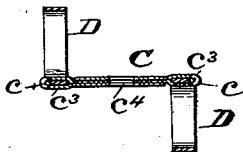


Fig. 6.

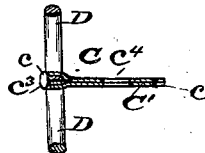
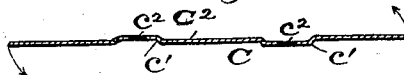


Fig. 7.



WITNESSES:

Jas. T. O'Neale.

Otto Meyer

INVENTOR

Jay Reed
BY A. E. Coombs

ATTORNEYS

UNITED STATES PATENT OFFICE.

JAY REED, OF BUTLER, MISSOURI.

STRAP-LOOP.

SPECIFICATION forming part of Letters Patent No. 530,056, dated November 27, 1894.

Application filed March 9, 1894. Serial No. 503,005. (No model.)

To all whom it may concern:

Be it known that I, JAY REED, a citizen of the United States, residing at Butler, in the county of Bates and State of Missouri, have
5 invented certain new and useful Improvements in Strap-Loops, of which the following specification is a full, clear, and exact description, reference being had to the accompanying drawings, in which—

10 Figure 1, is a longitudinal section of one of my improved loops, applied to a harness strap. Fig. 2, is a perspective of the loop detached. Fig. 3, is a longitudinal section of the loop. Fig. 4, is a detail of one loop. Figs. 5, and 6,
15 are longitudinal sections of modifications to be hereinafter referred to; and Fig. 7, shows a blank from which the carrier is formed.

My invention relates to that class of strap loops shown in Fig. 2 of my patent, No.
20 509,449, dated November 28, 1893, and has for its object to improve said loop by rendering its loops proper immovable or rigid on the sheet metal carrier plate, and to permit of either end of the carrier plate being brought
25 nearer to the buckle by recessing its end to receive the inner end of the buckle tongue.

The invention will first be described and then specifically pointed out in the claims.

30 A, represents a harness strap adapted for various uses.

B, is the buckle the inner cross piece of which is held between the folded end of the strap while my improved loop C, is also secured under this same folded end as shown in
35 the patent referred to.

The improved loop C comprises the carrier plate C' folded upon itself at both ends either from the same side, or from opposite sides, just so the three superposed layers are formed.
40 The ends of the carrier plate C' are notched right in the folds as shown at c so that the plate may be brought close up to the buckle; the tongue of the buckle at its inner end entering the notch c as clearly shown in Fig. 1.

45 D are the loops proper which instead of being formed of round wire, are formed of oval, flat, or other non-cylindrical material, so that when inserted in the folds of the carrier plate and there clamped, it will be impossible
50 for said loops to turn, and they will have no pivotal or swinging movement whatever. I find such rigidly connected loops to be of

great advantage in preventing wear of the parts, and rattling, and they are always in position for use. In Figs. 1, 2, 3, 4 and 6, these
55 loops D are formed from wire oval in cross section, while in Fig. 5, the loops are formed from flat wire or strips. I prefer the oval or partly rounded wire however, as there is less wear on the straps.

60 The loops are preferably formed with slight recesses d on their inner cross bars, to register with the recesses or notches c in the ends of the carrier plate, and prevent the closing of the latter by the said cross bars.

65 In Figs. 1, 2, 3 and 5, I have shown the loops proper projecting in opposite directions from the carrier plate, while in Fig. 3 the dotted lines show that they may be projected in the same direction according to the use to which
70 the device is to be applied.

In Fig. 6, two oppositely extending loops D are clamped back to back in one or both ends of the carrier plate, the adjacent edges of the loops being flattened to allow of this; but a
75 double loop having a flattened cross bar would serve the same purpose.

The blank C² shown in Fig. 7, is provided at equal distances from its ends with apertures c² which lie directly in the line of the folds
80 so that when the two ends of the blank are folded over, the notches c will be produced. The blank is further provided at its said apertured portions with bends or offsets c' which when the blank is folded as described form
85 the eyes c³ which receive the non-circular cross pieces of the loops D. After the loops D have been engaged with the eyes c³ the eyes are swaged or compressed upon the cross bars thereof, so as to firmly clamp the loops
90 against any swinging movement, and hold them perfectly immovable. The rivet hole c⁴ is then punched through the middle of the carrier plate, and is made entirely out of proportion to the size of the rivet E used there-
95 with, (see Fig. 1,) so that a riveting machine may be employed in riveting the strap and carrier plate together.

What I claim is—

1. A strap loop consisting in a carrier plate
100 formed of a strip of sheet metal folded upon itself and provided with a notched end, and an intermediate rivet aperture, and a stationary loop having a flattened or non-cylindri-

cal inner cross bar rigidly clamped in the said fold, substantially as herein described.

2. A strap loop comprising the carrier plate formed of a sheet metal strip folded upon
5 itself at both ends forming three superposed layers; the ends of said plate being notched, and its middle apertured for a rivet, and the stationary end loops having non-cylindrical
10 or flattened cross bars clamped rigidly in the folds or bends of said plate, substantially as herein described.

3. In a strap loop, the loop carrier formed of a strip of sheet metal provided with offsets or bends c' at opposite sides of its middle,
15 and apertured as at c^2 through said offsets; the said strip or blank being folded upon itself at both ends across said apertures producing the eyes c^3 and notches c and the rivet aper-

ture through the middle of the carrier plate, substantially as herein described. 20

4. The herein described strap loop consisting in the carrier plate formed of a strip of sheet metal bent upon itself at both ends forming three superposed layers, and having
25 notches in its bends or folds, and a rivet aperture through the middle and the stationary end loops having non-cylindrical cross bars clamped rigidly in the end folds of the plate, and having notches registering with the ends
30 of the carrier plate, substantially as herein described.

JAY REED.

Witnesses:

GEORGE PRATT WYATT,
EDITH M. ROBINSON.