

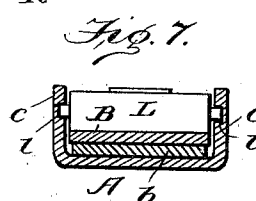
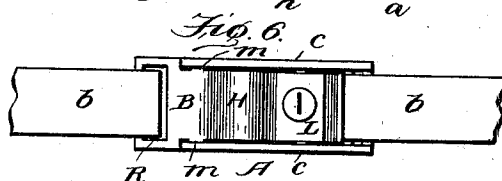
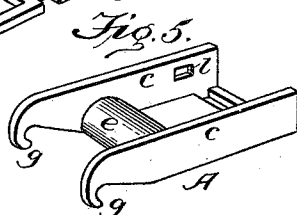
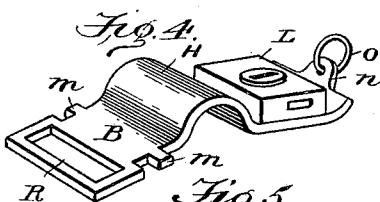
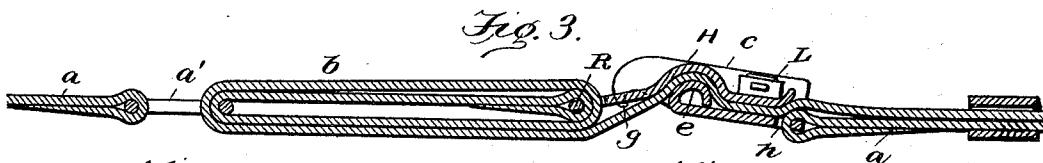
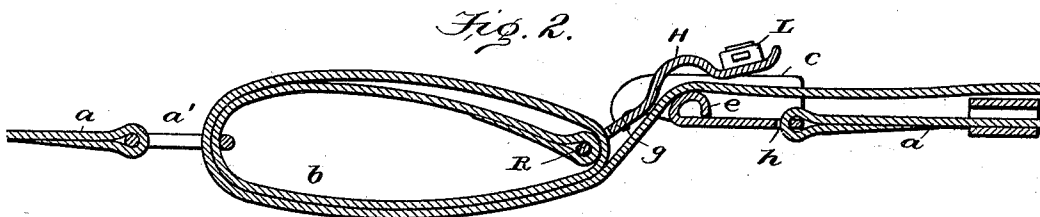
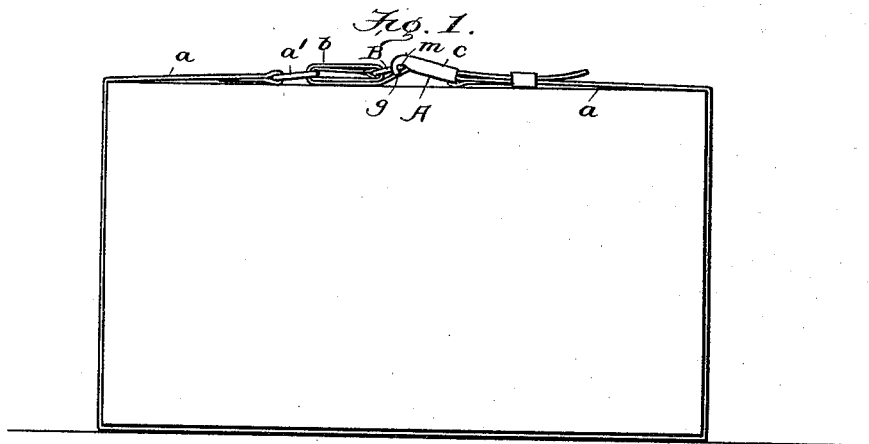
No. 624,559.

Patented May 9, 1899.

A. J. SPAULDING.
FASTENING DEVICE FOR STRAPS.

(Application filed Jan. 7, 1899.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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ASSIGNOR OF ONE-HALF TO GEORGE H. BELL, OF SAME PLACE.

FASTENING DEVICE FOR STRAPS.

SPECIFICATION forming part of Letters Patent No. 624,559, dated May 9, 1899.

Application filed January 7, 1899. Serial No. 701,513. (No model.)

To all whom it may concern:

Be it known that I, AMASA J. SPAULDING, a citizen of the United States, residing at Silver City, in the county of Grant and Territory of New Mexico, have invented a new and useful Fastening Device for Straps, of which the following is a specification.

My invention relates to improvements in devices for fastening the ends of a strap or band as is commonly used for securing trunks, packages, and similar articles; and the object of my improvement is to provide a fastening of simple construction and hold the strap securely and which may be tightened and loosened and which avoids weakening the strap by punctures. The device may be locked when the strap is fastened, by means conveniently applied, to render the fastening safe.

The device consists of two separable clamping-jaws, one a base part and the other a lever-tongue part, each of which parts is attached to a separate strap, one of which forms the fastening-strap, and the jaw parts are constructed in a novel way, whereby the fastening may be rendered self-acting under the tightening strain of the straps.

Referring to the accompanying drawings, forming part of this specification, Figure 1 is a side elevation showing my fastening device applied to straps and securing a package. Fig. 2 is an enlarged longitudinal section of the operative parts with the tongue-clamp part in position to be tightened on the strap. Fig. 3 is a longitudinal section through the clamping-jaws with the straps clamped between them. Figs. 4 and 5 are detail perspective views of the separate clamping-jaws. Fig. 6 is a plan view, and Fig. 7 is a transverse section, showing the locking-bolts in engagement.

Referring to the drawings, A is the base-part clamping-jaw, secured to the end of a strap *a*, the other end of said strap provided with a ring *a'*.

B is a lever-tongue jaw adapted to cooperate with the jaw A. The tongue-jaw B is secured to the end of a strap *b*, which is passed through the ring *a'* and through an eye in the tongue-jaw, so as to form a double loop,

and from the ring to and between the jaws, where it is secured.

The base-part clamping-jaw A is made from a single piece of metal in the form of a box having both ends and one side open, with the side walls *c c* terminating in hooks *g g*, adapted to receive pivots on the lever-tongue clamping-jaw part B. The bottom of said base part is upturned at the end, just back of the hooks *g g*, to form a clamping-bearing *e*. At the other end the base part has an eye *h*, to which the ringed strap *a* is secured.

As will be seen, the construction is such as to form a box-shaped receptacle, within and between the walls of which the double-looped strap is passed and held upon the bearing *e* by the clamping-jaw B, as I shall presently describe.

The clamping-jaw B is a single piece of metal and forms a curved tongue having at its free end an eye *R*, to which one end of the double-loop strap *b* is secured. Near the fastened end of the jaw B and extending from each edge thereof are formed studs or pivots *m m*, adapted to fit within the recesses or hooks *g g*, formed in the ends of the clamping-jaw A. An arch *H* in the tongue part coincides, when the parts are assembled, with the bearing *e* of the base part. Upon the free end of the tongue a lock *L* may be applied, which may be of any suitable construction, having bolts adapted to engage keepers *l l*, formed on the inner sides of the walls of the clamping-jaw A. The free end of the tongue when the parts are in position as shown in Fig. 3 lies within and between the side walls of the jaw A and overlies the strap, while the arch of the tongue presses the strap against and upon the bearing *e* and securely binds and holds the strap fastened. The tongue of the jaw B may be formed with an eye *n*, within which is secured a ring *o*, by means of which the tongue may be lifted and the clamping-jaws released.

It will be noted in connection with the clamping tongue-jaw B that the point of attachment of its connected strap is below or outside of the plane at which the jaws are engaged. As a result of this construction an increase of the tension of the straps will in-

crease the pressure between the clamping-surfaces by tending to draw them together by the action of the lever-tongue part.

The separate straps are connected by engaging the two jaws of the clamp together. The free end of the strap *b* is then passed through the ring *a'*, looped upon itself, and passed between the clamping-jaws and pulled tight. This tightening of the strap forces the tongue-jaw B against the strap and forces the same again against the bearing *e* of the base-jaw part, thus securely holding the strap. As will be seen, lifting the free end of the tongue will release the strap and allow of its withdrawal from the clamp.

The lock L upon the tongue-jaw B safely secures the clamping-jaws together and prevents any tampering with the contained package.

While I have shown the device as applied to an ordinary package strap or band, it is obvious that it may be applied with equal facility to saddle-girths and to other uses in harness generally where a firm pull is exerted between the two ends of a strap and adjustment is necessary and that a lock may or may not be used to secure the lever-tongue.

The forming of the double loop in the way described gives the advantage of storing up the slack in the fastening-strap, and it will be noticed that in forming the double loop this strap is passed through the rings of each of the clamping-jaw parts.

I claim—

1. A two-part fastening device for straps consisting of a jaw part formed with side walls and terminating at one end in hooks, the bottom of said jaw having an interior bearing back of the hooks and between the walls, and a lever-clamp part, adapted to operate between the walls of the jaw part, arched to conform to the interior bearing of the jaw part and having studs or pivots adapted to engage the hooks of the jaw part.

2. A fastening device for straps consisting of a base part open at the top and both ends the sides extending beyond the bottom at one

end and terminating in hooks, the bottom of said base part having an interior bearing located back of the hooks between the walls, and an eye at the other end, and a lever-clamping jaw eyed at one end, arched back of said eye to conform to the raised bearing of the base part and having pivots on its edges between the arch and the eye for engagement with the base-part hooks.

3. A fastening device for straps consisting of a base part formed with side walls terminating at one end in hooks, an interior bearing located at the bottom of said base part between the walls thereof, and a lever-clamping-jaw tongue part having pivots for engagement with the hooks of the said base part and adapted to operate between the walls thereof, in combination with means for fastening together the free end of the lever-clamping-jaw tongue part and the base part.

4. In a fastening device for straps the combination of a clamping-jaw formed with side walls terminating at one end in hooks, and a clamping-surface located at the bottom of said jaw between the walls, with a clamping-jaw tongue part arched coincident with and adapted to overlie said clamping-surface between the walls of the base part and provided with pivots by means of which the two jaw parts are held in operative relation to each other and with an extension to which a strap is secured.

5. In a fastening device for straps the combination of the separable clamping-jaw part substantially as described, and its connected strap having a ring at one end, a separable clamping-tongue part having a ring at one end and a strap secured in said ring and adapted to form a double-loop engagement with said ring and the ring of the other strap, with means for fastening the free end of the clamping-tongue part to the clamping-jaw part.

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