(No Model.)

W. J. DAVIS & J. WARLICK.

FASTENING AND TIGHTENING DEVICE FOR STRAPS.

No. 560,694. Patented May 26, 1896.

FIG. 1.

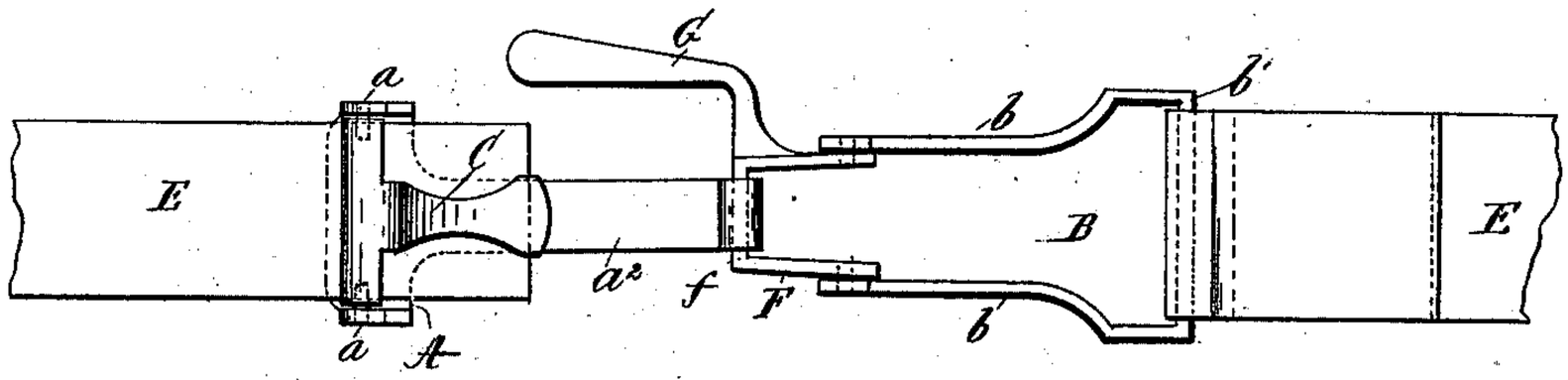


FIG. 2

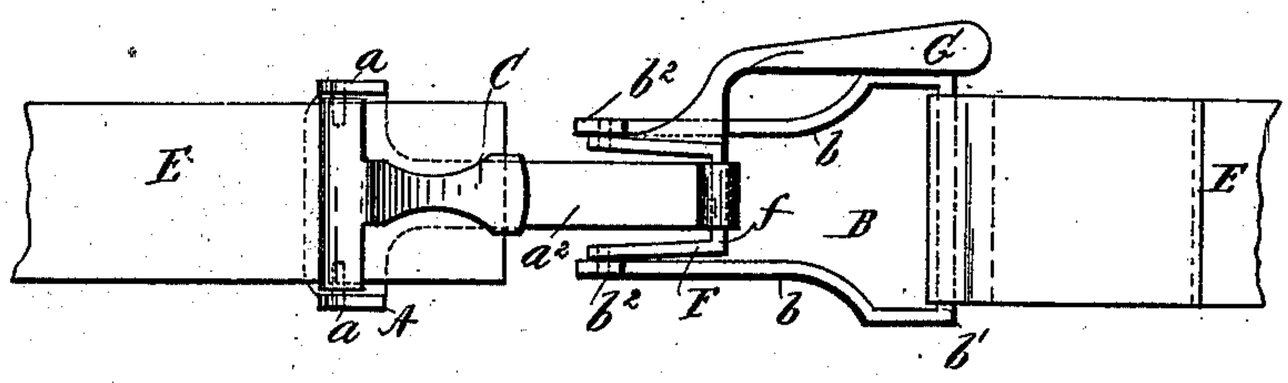
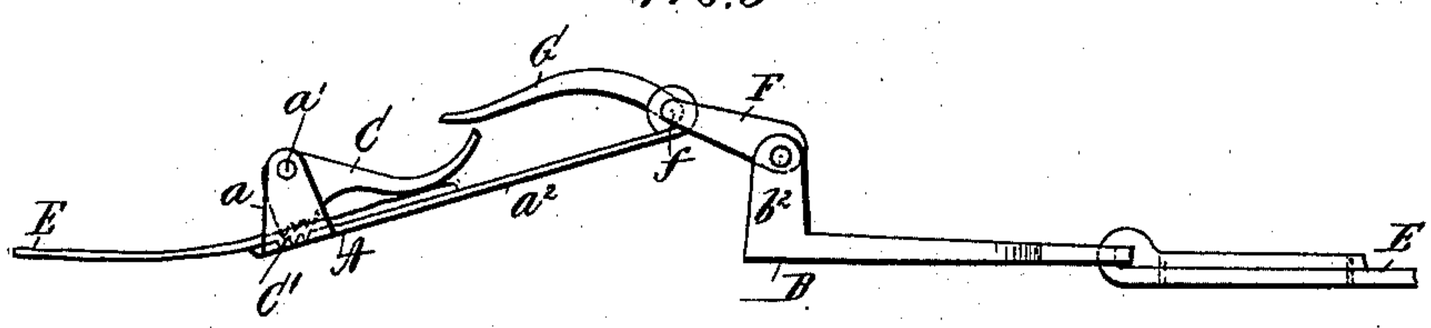


FIG. 3



WITNESSES:

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WILLIAM J. DAVIS AND JAMES WARLICK, OF NEW YORK, N. Y.

FASTENING AND TIGHTENING DEVICE FOR STRAPS.

SPECIFICATION forming part of Letters Patent No. 560,694, dated May 26, 1896.

Application filed October 2, 1895. Serial No. 564,395. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM J. DAVIS and JAMES WARLICK, citizens of the United States, and residents of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Tightening and Fastening Devices for Straps, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to trunk-straps and similar straps for other purposes, and the object thereof is to provide an improved fastening and tightening device for such straps by means of which the ends thereof may be easily and readily connected and by which a strap when placed upon a trunk or other article may be tightened as desired.

Our invention involves two parts or end pieces, one of which is adapted to be connected with the end of a strap and the other being provided with a clamp through which the other end of the strap is passed, the end pieces being connected by means of a link or yoke, to which is secured a lever and the operation of which is to draw the end pieces together.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a plan view of our improved strap-fastening device, showing a strap connected with each end thereof; Fig. 2, a similar view showing the ends of the device drawn together so as to tighten the strap, and Fig. 3 a side view of the device with the parts in the position shown in Fig. 1.

In the practice of our invention we provide a strap fastening and tightening device comprising two end pieces A and B, the part A constituting a clamp through which one end of the strap is passed after the other end has been secured to the part B.

The clamp A is provided with standards a, between which is eccentrically pivoted a lever C, having a circular or elliptical head which is pivotally connected with the standards a at a' by means of a hole formed in said standards and eccentrically in said head, through which is passed a pin or bolt. The clamp A is also provided with a shank a^2, and the end or part B is yoke-shaped in form and composed of side bars b and an end or cross bar b', to which one end of the strap E is secured.

The ends b of the yoke B are each provided with a standard b^2, between which is pivoted a yoke-shaped link F, having a cross-bar f, with which is pivotally connected or to which is hinged the shank a^2 of the clamp A, and formed on or secured to one side of the yoke-shaped link F is a lever G.

The lower surface of the circular or elliptical head of the clamp-lever C is provided with transverse teeth or serrations, as shown at C′, and the upper adjacent surface of the clamp-plate is similarly provided, and the operation will be apparent from the foregoing description when taken in connection with the accompanying drawings.

In operation one end of the strap E is secured to the cross-bar b' of the yoke B, and the other end thereof is carried around the trunk or other article, as will be readily understood, and passed through the clamp A, the lever C being raised to permit of this operation. The end of the strap E, having been passed through the clamp A, is drawn as tightly as possible, and the lever C is then depressed, as shown in Fig. 3, in which position the head thereof will securely hold the end of the strap. In this operation the parts are in the position shown in Fig. 3, with the lever G projecting toward the clamp. After the end of the strap has been connected with the clamp, as described, the lever G, which is rigidly connected with the yoke-link F, is drawn backward and forced downwardly into the position shown in Fig. 2, in which operation the yoke-link F is carried backwardly and borne down between the sides b of the yoke B, and in this operation, as will be understood, the strap E is drawn taut and will be so held as long as the parts are in the position described.

When it is desired to release the clamp or remove the strap therefrom, the above-described operation of the lever G is reversed and the parts are turned to the position shown in Fig. 3, when the end of the strap may be readily removed from the clamp A by releasing the lever G.

Our invention is not limited to the exact

form, construction, and arrangement of parts shown and described, and we therefore reserve the right to make all such alterations therein and modifications thereof as fairly come within the scope of the invention.

Having fully described our invention, we claim and desire to secure by Letters Patent—

1. A fastening and tightening device for the straps of trunks, or other articles, comprising a yoke-shaped end piece with the cross-bar of which one end of a strap is adapted to be connected, a clamp through which the other end of the strap is adapted to be passed, said clamp being provided with a shank, and said yoke-shaped end piece with standards, and a link which is pivotally connected with said standards, and with said shank and provided with an operating-lever, said clamp being also provided with a clamp-lever, which is pivotally connected therewith, and by means of which the end of the strap is held in place, substantially as shown and described.

2. A fastening and tightening device for straps, comprising an end piece to which one end of the strap is adapted to be connected, and said end piece, being provided with vertical standards; a clamp through which the other end of said strap is adapted to be passed, comprising a plate to which are secured vertical standards between which is pivoted a clamp-lever, and said clamp being also provided with a shank; and a yoke-link pivotally connected with said shank, and with the standards, on the end piece to which one end of the strap is adapted to be secured, said link being provided with an operating-lever, substantially as shown and described.

In testimony that we claim the foregoing as our invention we have signed our names, in presence of the subscribing witnesses, this 28th day of September, 1895.

WILLIAM J. DAVIS.
JAMES WARLICK.

Witnesses:
WILLIAM C. WOLFE,
WILLIAM H. FITZGERALD.