

(No Model.)

D. WILSON.  
BELT FASTENER.

No. 347,857.

Patented Aug. 24, 1886.

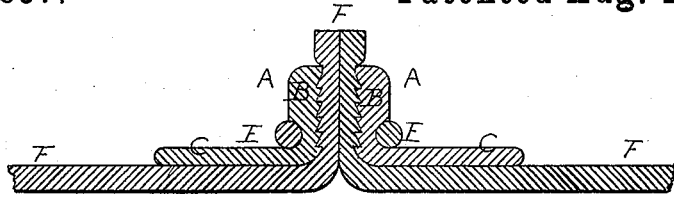


Fig. 1.

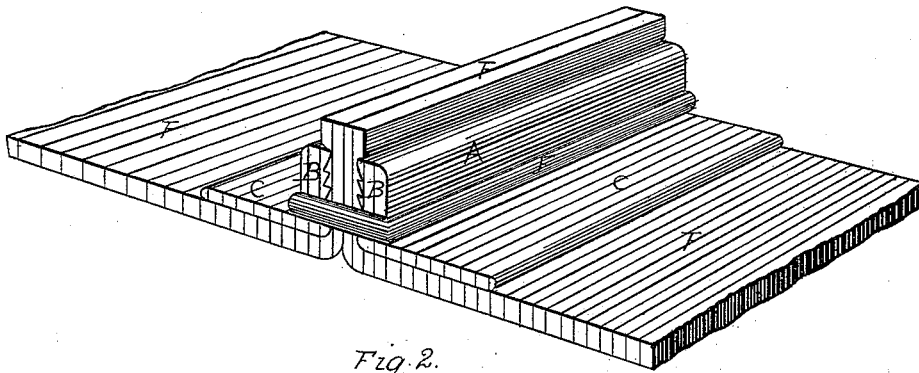


Fig. 2.

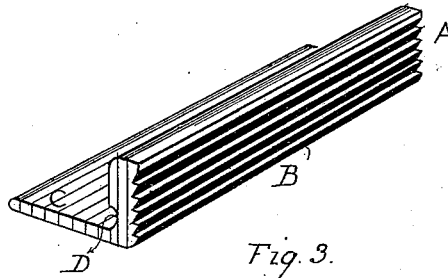


Fig. 3.

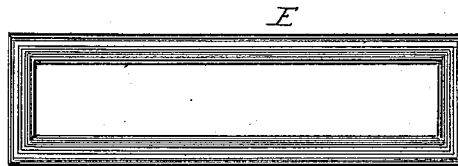


Fig. 4.

Witnesses:  
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# UNITED STATES PATENT OFFICE.

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## BELT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 347,857, dated August 24, 1886.

Application filed March 8, 1886. Serial No. 194,475. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID WILSON, a subject of Her Majesty the Queen of the United Kingdom of Great Britain and Ireland, residing at Cappoquin, in the county of Waterford, Ireland, have invented an Improvement in Belt or Strap Fasteners, of which the following is a specification.

This invention relates to that class of fasteners for belts and straps, in which two ends of a belt or strap are conveniently secured together without perforating them by clamping them between jaws or "grips, which are connected by a link embracing the grips and forming their pivots.

My invention consists in an improved device of that kind, comprising a pair of "lever-grips" of peculiar construction, as hereinafter set forth and claimed, whereby a close, smooth, and secure joint is formed, and which is complete in and of itself without the aid of stops or other accessories.

Figure 1 is a sectional elevation through my belt-fastener with the belt in position. Fig. 2 is a perspective view of the same. Fig. 3 is a perspective detail of one lever-grip of my fastener. Fig. 4 is a detail of the link used in conjunction with the lever-grips of my device.

My improved device comprises two lever-grips, A A, (one being shown detached in detail in Fig. 3,) which may be constructed of malleable cast-iron or other suitable material. The short end of each lever-grip forming a jaw, B, is serrated, and the other part, C, of the lever-grip is continued into a tail of considerable length, approximately at right angles to the serrated jaw. A recess, D, is provided at the back of the lever-jaw, into which fits the embracing-link E, of malleable cast-iron or other suitable material, and which is of suitable shape—such as a rectangular parallelogram—so as to embrace both gripping-jaws, and to form a point of resistance on which the lever-grips can turn. The said grips extend conveniently for the whole width of the strap or belt. The section of the link

may be either round, oval, triangular, or of other convenient shape.

To couple or fasten the belt F, the short ends of the lever-grips A A are put inside the link E, the link fitting into the aforesaid recesses D of the grips. The ends of the belt F are then pressed in between the grips from the under side, and the serrated jaws B are pressed forcibly against the ends of the strap by the pressing asunder of the tails C of the lever-grips either by hand or by the natural action of the strap when it is extended ready for working. The body of the strap is in such case extended perpendicularly to the joint, and thus presses upward with great force upon the tails of the lever-grips, which lie upon the extended body of the strap, so as to insure a very forcible and secure grip upon the ends of the strap. The serrations on the jaws of the gripping-levers are made so that the strap can readily enter from the under side, but is seized upon its return.

The link E may be made, if desirable, in more than one piece.

I am aware that cam-locking jaws have been applied to a similar purpose as my device. Such fasteners unavoidably form a large space or notch next the pulleys, causing them to hammer on the latter at each revolution, whereas the pivotal points of my lever-grips may be and are located so close to the plane of the belt that the space at the joint is too small to produce any such effect on the smallest pulleys, and in my improved device there is no cam action. It depends instead for the success of its action upon the great pressure of the extended body of the strap on either side of the joint upon the tails of my lever-grips.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

An improved belt or strap fastener, composed of a pair of lever-grips each of L shape in cross-section, and an embracing-link, the short ends or jaws of said grips having serrations on their coating faces and grooves in

their backs at their intersection with the tails of the respective grips, and said tails projecting in straight lines on the respective sides of the joint substantially at right angles  
5 to said jaws, and having smooth contact-surfaces in the plane of the back of the belt or strap, as hereinbefore specified, for the purposes set forth.

In testimony whereof I have signed my name

to this specification in the presence of two subscribing witnesses. 10

DAVID WILSON.

Witnesses:

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