

(No Model.)

J. W. PUGH.  
BELT FASTENER.

No. 301,070.

Patented June 24, 1884.

Fig. 1.

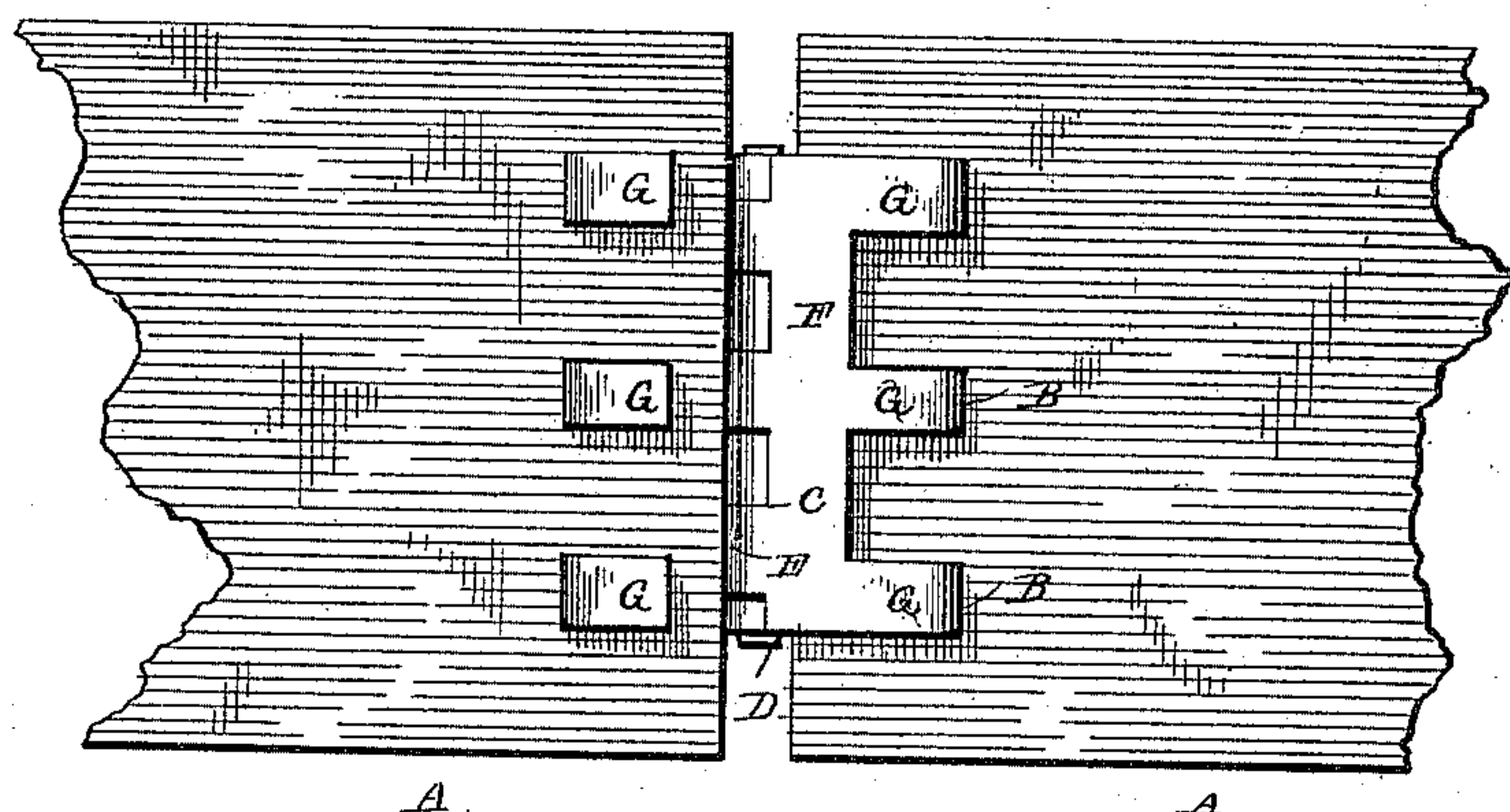


Fig. 2.

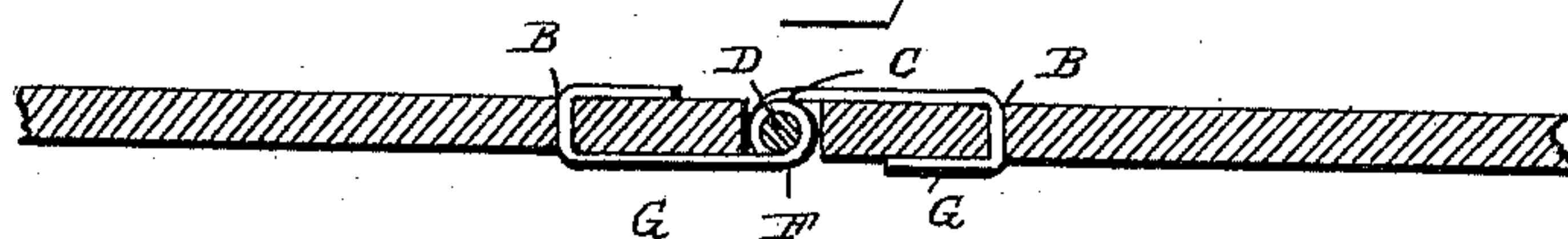
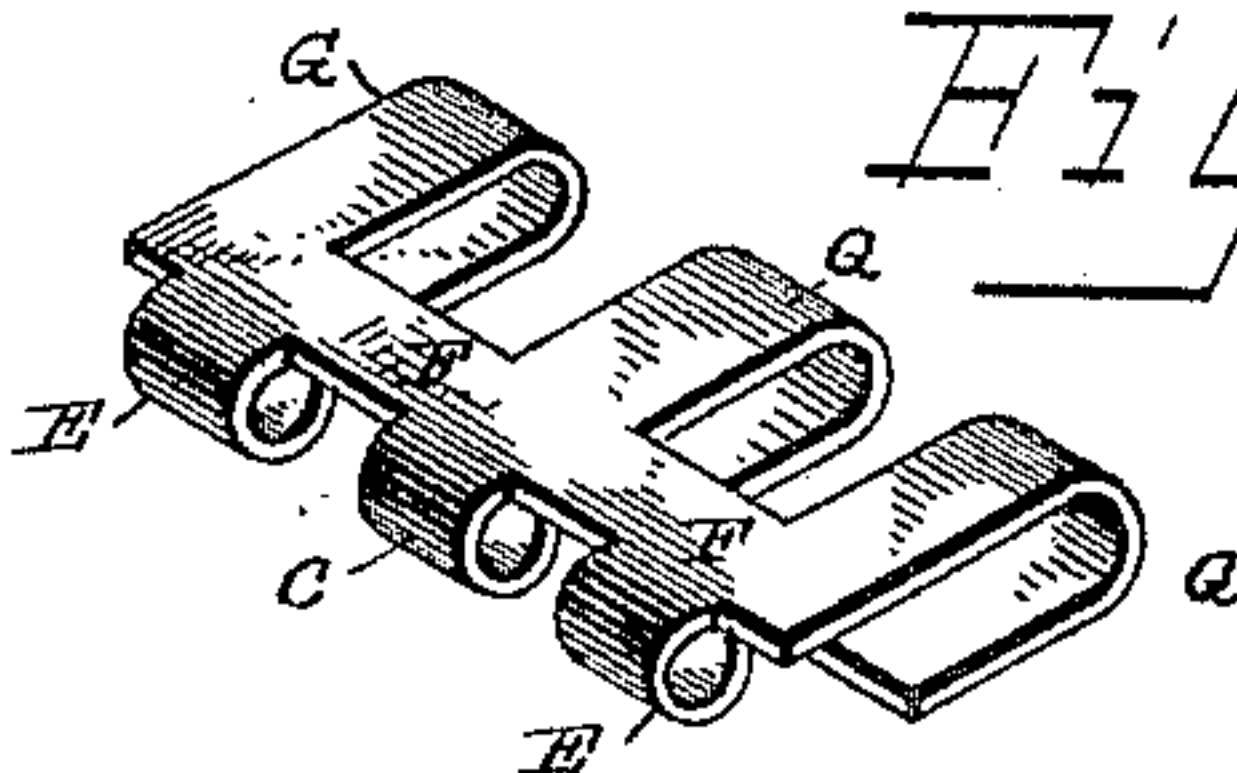


Fig. 3.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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ALLEN P. COLLAR, OF SAME PLACE.

## BELT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 301,070, dated June 24, 1884.

Application filed April 11, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. PUGH, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Belt-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to fasteners for machine-belted, and is designed to provide a simple and easily-attached device for securing the ends of a belt together, and to do away with certain objections usually attending articles of this class. It entirely obviates the use of lacing, with its attendant "bunches" and constant danger of wearing out or breaking. It is also quickly attached and detached from the belt, and is so secured to the same as to prevent all danger of the belt pulling apart or pulling the fastener "out," and is made of such shape as to quickly and easily accommodate itself to the form of the pulley over which it passes, it making no difference whether it goes over one and under another, or over pulleys of different sizes.

In the drawings, Figure 1 represents a plan view of the ends of a belt secured by the belt-fastening; Fig. 2, a longitudinal section through Fig. 1, and Fig. 3 a detached perspective of one-half of the fastener.

A represents the ends of a belt adapted to be used in machinery. Through the belting, at some distance from the edge and end, are the slots B.

C represents a hinge-fastening adapted to receive a bolt, D, through the loops E, the arrangement and purpose of the same being substantially like that of an ordinary hinge. The loops E, being connected by cross-pieces F, have opposite them the U-shaped loops G, as shown. Both loops project below the surface of the pieces F, as shown, the two parts of the hinge being placed alternately upward and downward, as will be seen in Figs. 1 and 2. The loops G are passed through the slots in the belting, one half of the hinge being passed

from above downward and the other from below upward, the ends of the said belting abutting against the loops E. The loops G, embracing the belt as they do, prevent all danger of the belt ends pulling apart or the loops straightening under the pressure. Spaces being provided between the loops G, the strength of the hinge is not materially impaired, while the small amount of material cut away from the belt does not at all weaken it. It will readily be seen that the metal forming the loops G will easily bend to conform with the shape of the pulley over which the belt passes.

The general form of the fastener is that of an elongated S.

Having described the device, what I claim is—

1. A belt-fastener consisting of two pieces of metal, each slotted, so as to form on one side of it a series of tongues adapted to be bent into U-loops, the two parts being hinged together so that the free ends of the loops will project in opposite directions from the sides of the fastener, substantially as and for the purpose specified.

2. A hinged belt-fastener consisting of two series of U-loops formed integral with and connected by cross-pieces, the series of loops on one of the two pieces forming the fastener being bent in a direction opposite to that on the other, substantially as and for the purpose specified.

3. A belt-fastener consisting of two parts, each part being a piece of metal having on it tongues projecting in opposite directions, one series adapted to be bent into loops for the reception of a hinge-bolt, and the other into U-loops adapted to pass through and embrace the ends of the belt, substantially as and in the manner specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN W. PUGH.

Witnesses:

GEORGE THOMSON,  
ROBERT THOMSON.