

(No Model.)

S. KRYZKI.  
BELT TIGHTENER.

No. 288,579.

Patented Nov. 13, 1883.

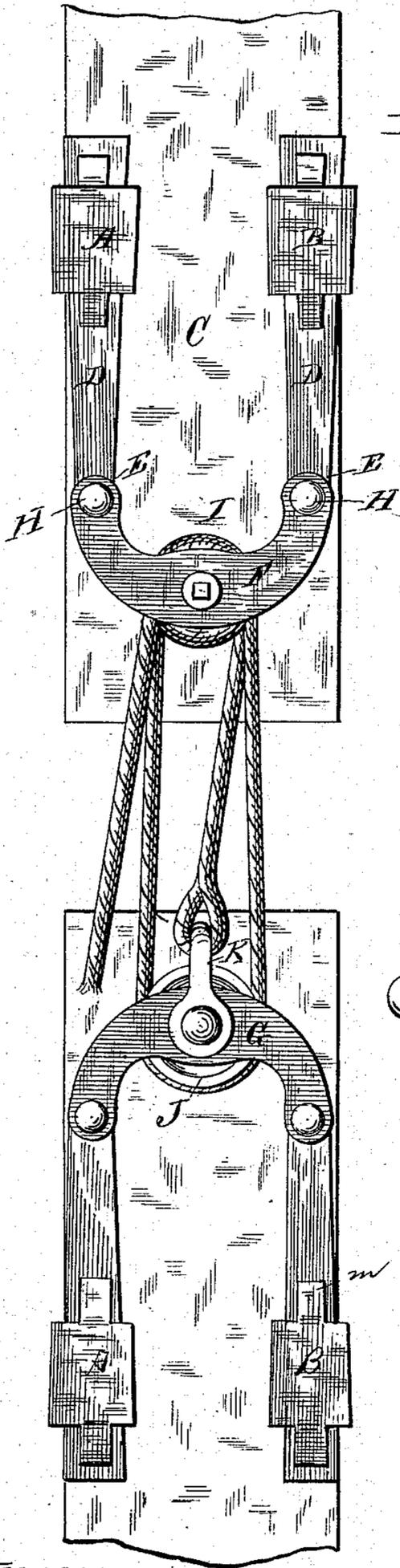


Fig. 1.

Fig. 2.

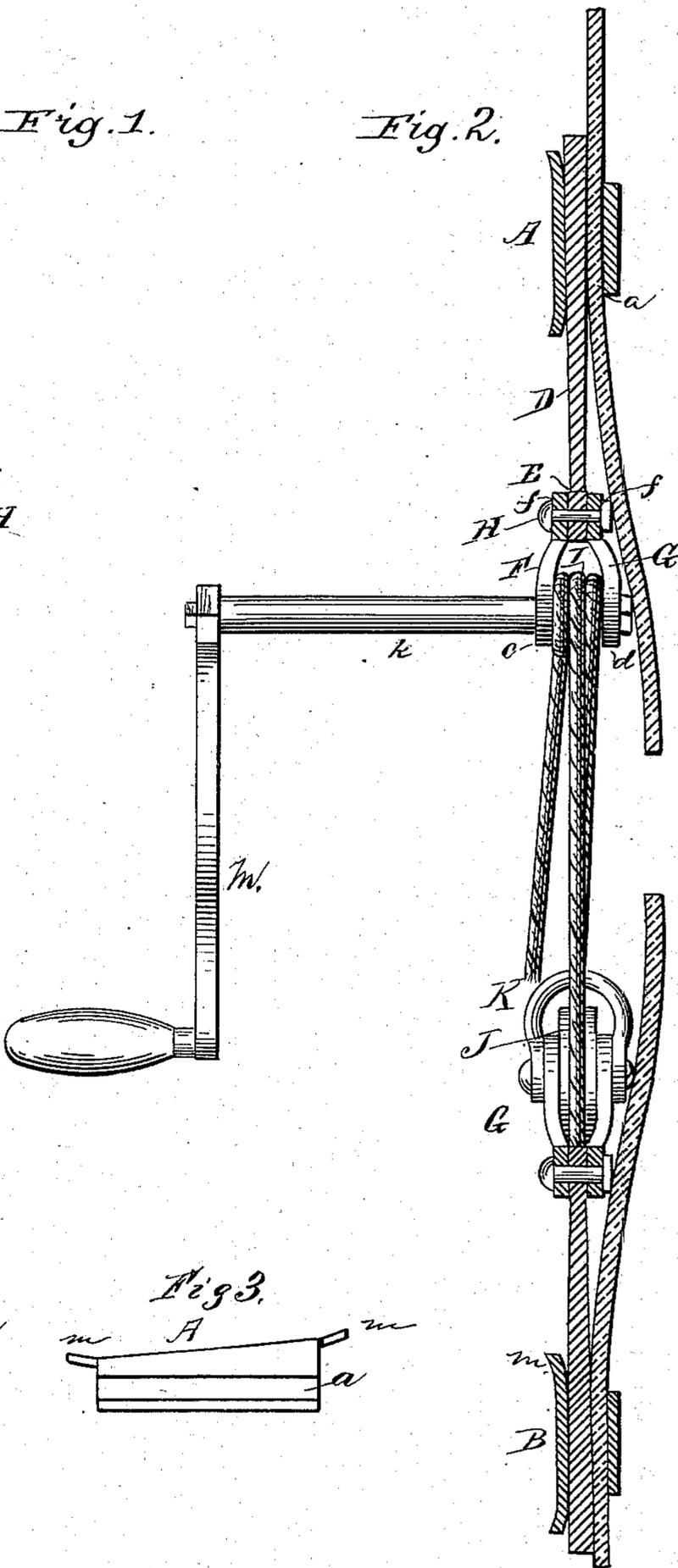
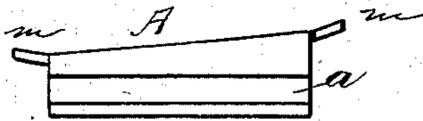


Fig. 3.



Witnesses:  
O. Johnson  
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[Signature]  
Attorney

# UNITED STATES PATENT OFFICE.

STANISLAUS KRYZKI, OF HENRY, ILLINOIS.

## BELT-TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 288,579, dated November 13, 1883.

Application filed September 24, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, STANISLAUS KRYZKI, a citizen of the United States of America, residing at Henry, in the county of Marshall and State of Illinois, have invented certain new and useful Improvements in Belt-Tighteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to belt-tightening devices; and it consists in the improved construction and combination of parts, hereinafter described and claimed, whereby the application of the improvement to the belt is readily effected, and the same subjected to great strain in the tightening operations without danger of becoming accidentally detached.

In the accompanying drawings, Figure 1 is a plan view of the ends of a belt having my improvement applied thereto. Fig. 2 is a section on the line 1 2 of Fig. 1, and Fig. 3 is a detail view.

Blocks A B on each side of the belt C embrace the edges of the said belt, and are each provided with a longitudinal groove or channel, *a*, through which passes a wedge-shaped arm, D, provided with a perforated head, E, and tapering from the front to the rear in increased thickness. Yokes F G, composed of plates *c d*, at their ends embrace the perforated heads E of the arms D, the ends of the curved plates having perforations *f*, registering with the perforations of the heads E, so as to permit pivot-bolts H to be passed through, the heads of said pivot-bolts being riveted, to prevent them dropping out. The plates *c d* of the yoke F are separated from each other at their centers, to permit a roller, I, to be located between the same, the journals of said roller being vertical and bearing in perforations in said plates *c d*. The plates *c d* of the yoke G are also separated, to receive between them a grooved pulley, J, the journals of which bear in perforations therefor in the said plates. A bail, K, is pivoted to the projecting end of

the journals of the pulley J, which are also riveted. The upper journal of the roller is extended to form a key-rod, *k*, the end of which is adapted to receive a crank-handle, M, to effect the rotation of the roller. The wedge-shaped arms D being moved sufficiently back in the channels to permit the introduction of the edges of the belt in the blocks A B, the said arms are then moved forward to bring the thickest portion of the arms D within the channels *a*. One end of a rope is secured to the bail K, and is then passed around the pulley J, and thence around the roller, when it is grasped by one hand of the operator. The crank is then turned to revolve the roller, so as to draw upon the rope and draw the ends of the belt together so as to receive the same, by any suitable means. Ears *m* on the blocks A B facilitate their manipulation.

It will be apparent that the device is of cheap and simple construction, ready application, that it is capable of being applied to the belt to work effectively without perforating or otherwise damaging the said belt, and that great strain is exerted upon said belt, for the purpose described.

I claim—

1. The combination, in a belt-tightener, of a series of blocks provided with channels adapted to receive wedge-shaped arms connected to the tightening devices, and designed by their movement within said blocks to effect the clamping of said arms and blocks firmly to the belt, substantially as set forth.

2. The combination, in a belt-tightening device, of a series of blocks, A B, embracing the edges of the belts, and channeled to receive wedge-shaped arms carrying the yokes F G, in which are respectively journaled a roller and pulley, a pivoted bail connected to the yoke, and having fastened thereto a rope which passes around the pulley and the roller, and a crank for revolving the roller, substantially as set forth.

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

STANISLAUS KRYZKI.

Witnesses:

FRANK YANOCHOYSKI,  
THOMAS DUKE.