

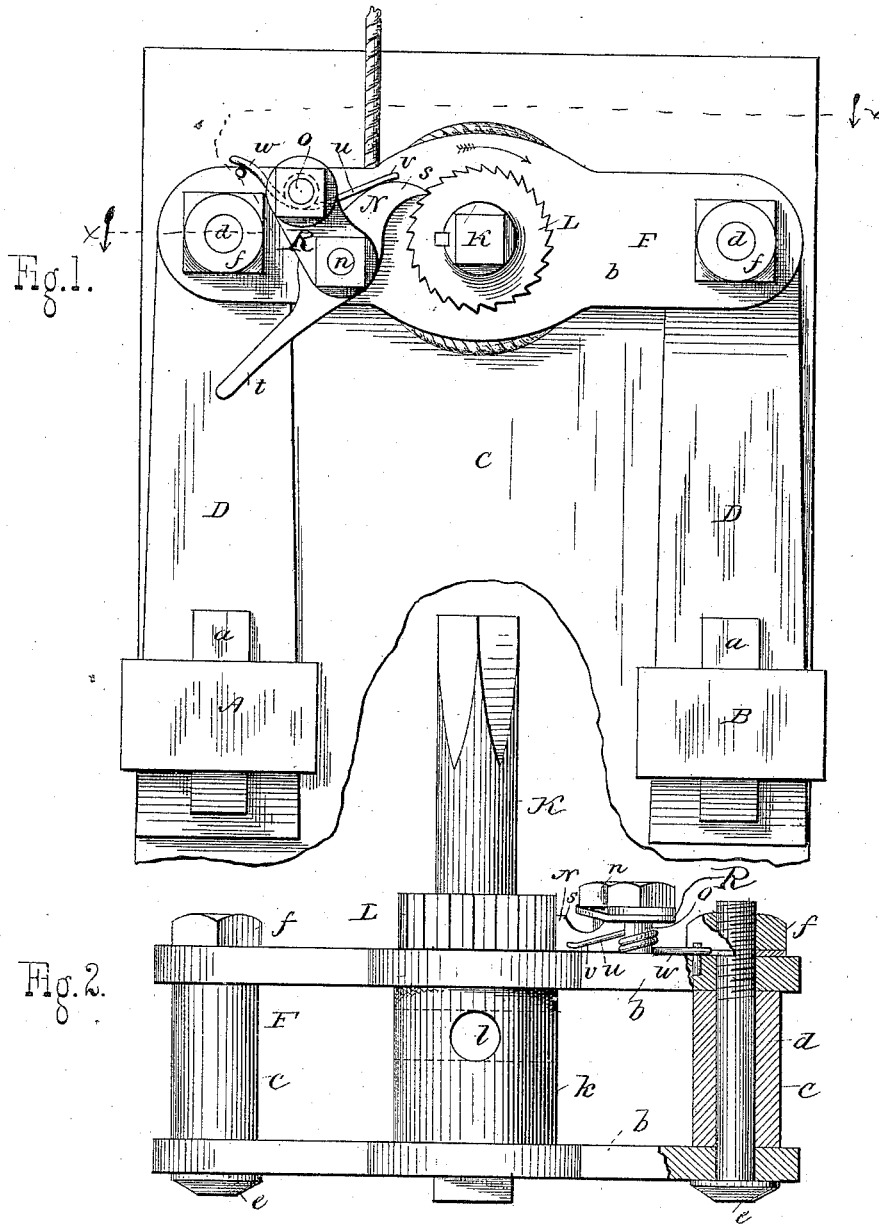
(No Model.)

2 Sheets—Sheet 1.

S. KSYZKI.  
BELT TIGHTENER.

No. 306,262.

Patented Oct. 7, 1884.



WITNESSES  
*F. H. Curand.*  
*E. M. Johnson*

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INVENTOR  
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Attorney

(No Model.)

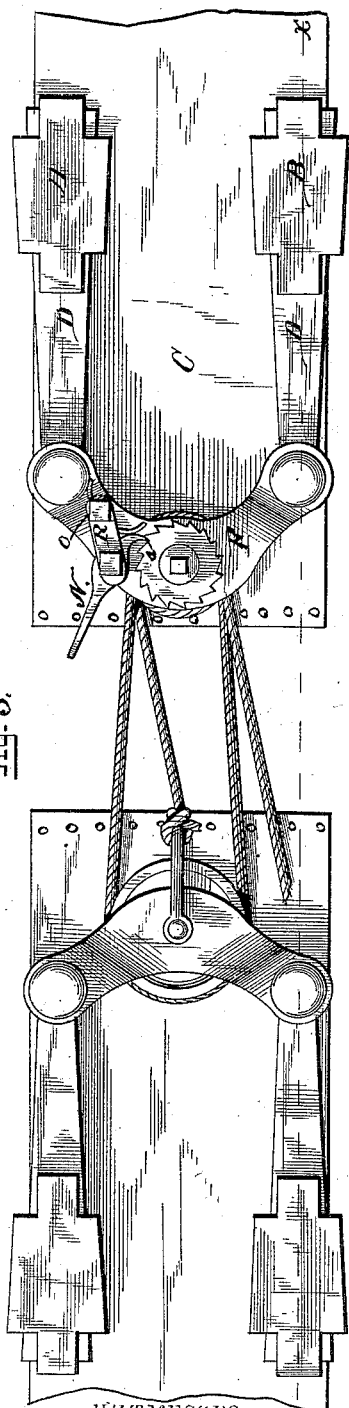
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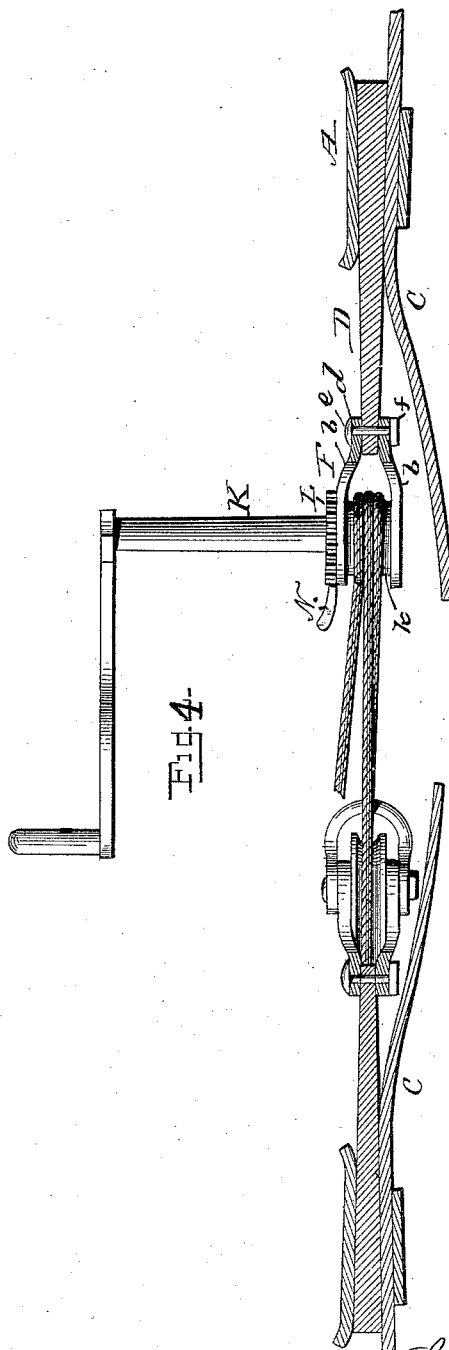
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Fig. 3.



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Fig. 4.



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# UNITED STATES PATENT OFFICE.

STANISLAUS KSYZKI, OF HENRY, ILLINOIS.

## BELT-TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 306,262, dated October 7, 1884.

Application filed February 14, 1884. (No model.)

### *To all whom it may concern:*

Be it known that I, STANISLAUS KSYZKI, 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 has reference to belt-tightening devices; and it consists in the improvements hereinafter fully described, and set forth in the claim.

In the accompanying drawings, Figure 1 is a plan view of a device embodying my present improvements, and Fig. 2 is an end view taken on the line *x x* of Fig. 1, one of the parts being removed, and partially in section. Fig. 3 is a plan view showing the application of my invention, and Fig 4 is a side view, partly in section.

The general construction of belt-tighteners to which my present invention relates is the form and arrangement set forth and illustrated in the Letters Patent No. 288,579, issued to me November 13, 1883, to which reference may be had for a clear comprehension of such general construction. In the present case *F* is the yoke, which is attached to the end of the belt *C* by means of the wedge-shape arms *D*, playing through clips *A B*, between which clips and the arms are located wedge-keys *a*. The said yoke *F* consists of the parallel plates *b*, which are perforated at their ends and enlarged at their centers to form central bearings for a suitable drum. Sleeves *c*, located between the plates *b*, maintain said plates in proper position with respect to each other, while bolts *d*, having heads *e* at one end, are threaded at the other end to receive nuts *f*, by which the plates *b* are securely retained in position. A spindle, *K*, passes through the perforations in the platforms of the plates *b*, and has roller or drum *k* keyed on the same

between said plates. The roller or drum *k* is provided with a horizontal perforation, *l*, through which one end of the tightening-rope is passed and knotted to secure the same to said roller. The lower portion of the stud *n* acts as a pivot for a pawl, *N*, which is enlarged at its center for the passage of said stud *n*, the said pawl having a catch-head, *s*, adapted to engage the teeth of the ratchet-pinion *L*. The pawl *N* is furthermore provided with an extension, *t*, which permits its ready manipulation on its pivot. The catch-head of the pawl is held in engagement with the ratchet-pinion by means of a spring, *u*, the center of which is wrapped around the stud *o*, while its extensions *v w*, respectively, bear against the catch-head of the pawl and a stud or pin projecting from the upper plate, *b*.

From the foregoing it will be obvious that by applying a key-crank to the end of the spindle and turning the same in the direction indicated by the arrow, Fig. 1, the tightening-rope will be wound upon the roller *k*, the said roller being prevented from receiving any reverse movement through the tension of the rope by reason of the spring-pawl engaging the ratchet *L* on the spindle. The frictional contact of the rope with the securing-bolts *d* is prevented by the sleeves *c*, which also maintain the plates *b* at proper distances apart.

By thus arranging the studs *n o*, and their connecting-plate *R* and the pawl and the ratchet, the drum will then be allowed to rotate freely.

The device hereinbefore described is adapted to be employed to tighten belts when located upon their pulleys, and the parts shown are intended to be employed in conjunction with a clamp which is secured to the opposite end of the belt, by which means the parts may be brought and held adjacent to each other while being laced.

I claim—

The combination, in a belt-tightening device, of a yoke consisting of plates *b*, enlarged at their centers to form bearings, the said plates being perforated at their ends, sleeves interposed between said plates at their

ends, bolts passing through the same, a spindle carrying a perforated roller and ratchet-disk and adapted to receive a key-crank, studs projecting from the upper plate, *b*, and connected by a plate, *R*, a pawl pivoted on one of said studs and having a head and extension, and a spring coiled around the other stud, and having an extension arranged as de-

scribed, substantially as and for the purpose specified. 10

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

STANISLAUS KSYZKI.

Witnesses:

LOUIS F. HELPER,  
FRANK YANXHOYSKI.