

C. P. LEAVITT.  
BELT GUIDE.

No. 106,179.

Patented Aug. 9, 1870.

Fig. 1

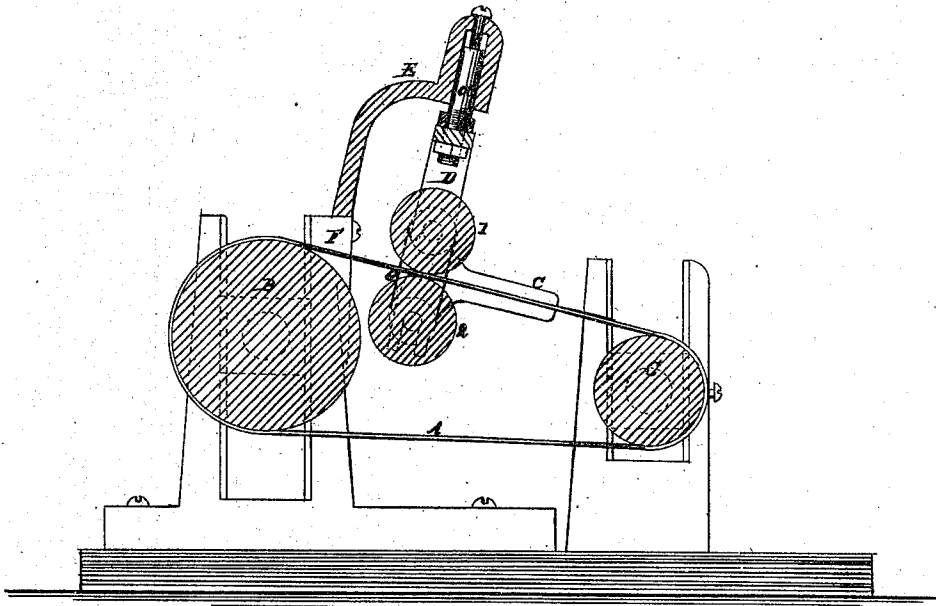
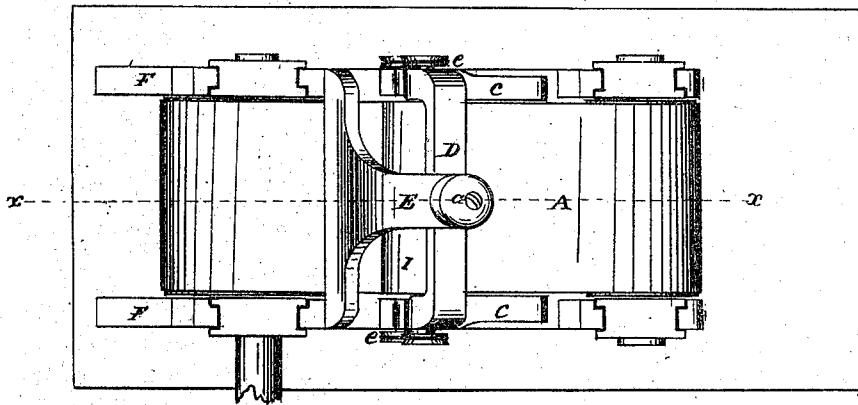


Fig. 2



Witnesses:

Inventor.

J. R. Buchanan  
C. H. Schmitt

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# United States Patent Office.

CHARLES P. LEAVITT, OF NEW YORK, N. Y.

Letters Patent No. 106,179, dated August 9, 1870.

## IMPROVEMENT IN BELT-GUIDES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, CHARLES P. LEAVITT, of the city, county, and State of New York, have invented a new and improved Guide for Belts traveling over pulleys; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a vertical longitudinal section through the center of my improved belt-guide, in the line *x x*, fig. 2.

Figure 2 represents a plan of the same.

Similar letters indicate corresponding parts in both figures.

The object of this invention is to provide for guiding thin and wide belts upon pulleys or drums, to make them travel perfectly true and prevent them from turning or doubling over on their edges, which they are prone to do with ordinary guards or guides.

My improvement consists in constructing and arranging double rollers supported by a yoke suspended on a swivel, and provided with guiding-arms, the combined operation of which devices causes the belt to run evenly on the pulleys.

*A* represents a wide and thin belt, made of paper, leather, or other material, traveling over the pulleys *B C*; and

*D* is a yoke-frame, suspended centrally above and across the belt by a swivel, *a*, to the upper end of a projecting piece, *E*, fastened to the frame *F*.

The ends of the yoke *D* extend downward below the edges of the belt *A*, and support in slotted bearings the journals of the double rollers *1 2*, placed above and below the belt, and made to bear against its upper and lower sides, respectively, by means of rubber-band springs, *e e*, attached to the ends of the roller-journals, or by any other suitable means.

Side pieces or arms, *c c*, are fastened to the prongs of the yoke *D*, and project from them parallel to the belt *A*, with their inner sides lying close against its edges, in order to guide it true as it travels over the pulleys *B C*.

The belt runs between the two rollers, *1 2*, and their constant pressure keeps it flat and straight, while a self-adjusting movement takes place by a slight turn of the yoke *D* upon the swivel *a*, whenever the edges of the belt bear more or less on one side or the other against the arms *c c*, thus directing the belt straight and preventing its edges from doubling or turning over on the face of the pulleys.

Having described my invention,

What I claim, and desire to secure by Letters Patent, is—

The combination of the double rollers *1 2*, with the swivel-yoke *D*, and the belt *A*, constructed, arranged, and operating substantially as and for the purpose herein described.

CHAS. P. LEAVITT.

Witnesses:

J. R. BUCHANAN,  
O. MACDANIEL.