

J. T. COWLEY.
CONVEYING APPARATUS.
APPLICATION FILED MAR. 25, 1907.

928,365.

Patented July 20, 1909.

Fig. 1.

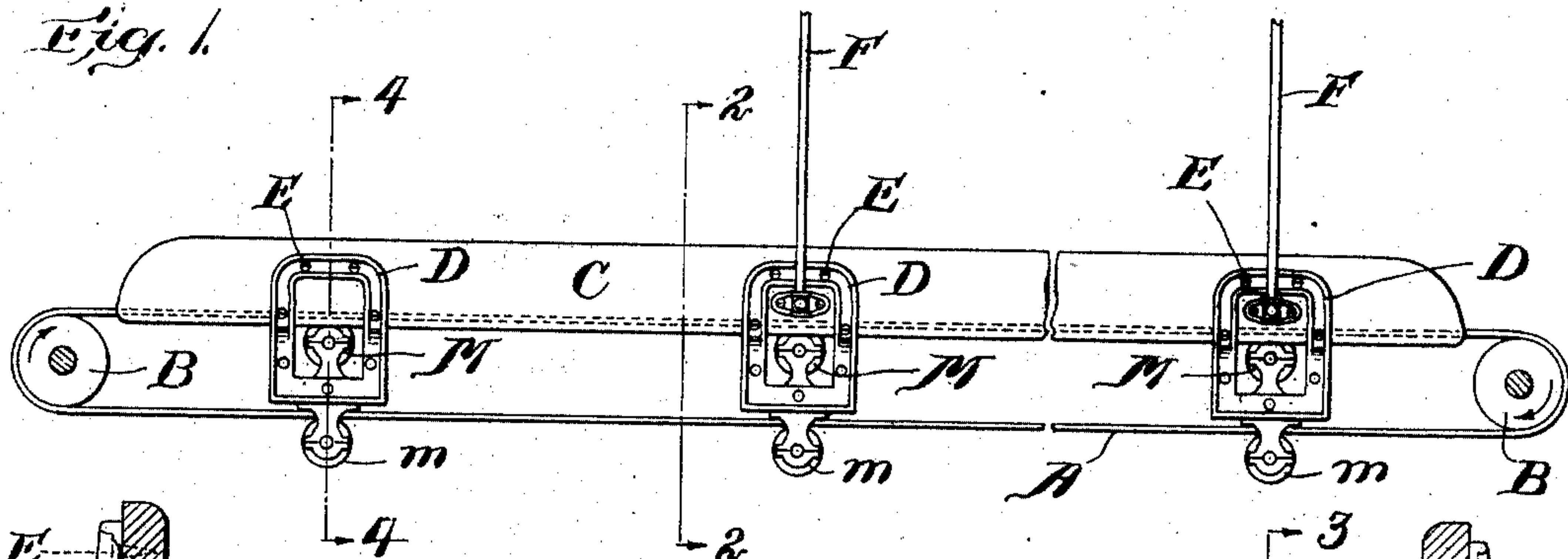


Fig. 2.

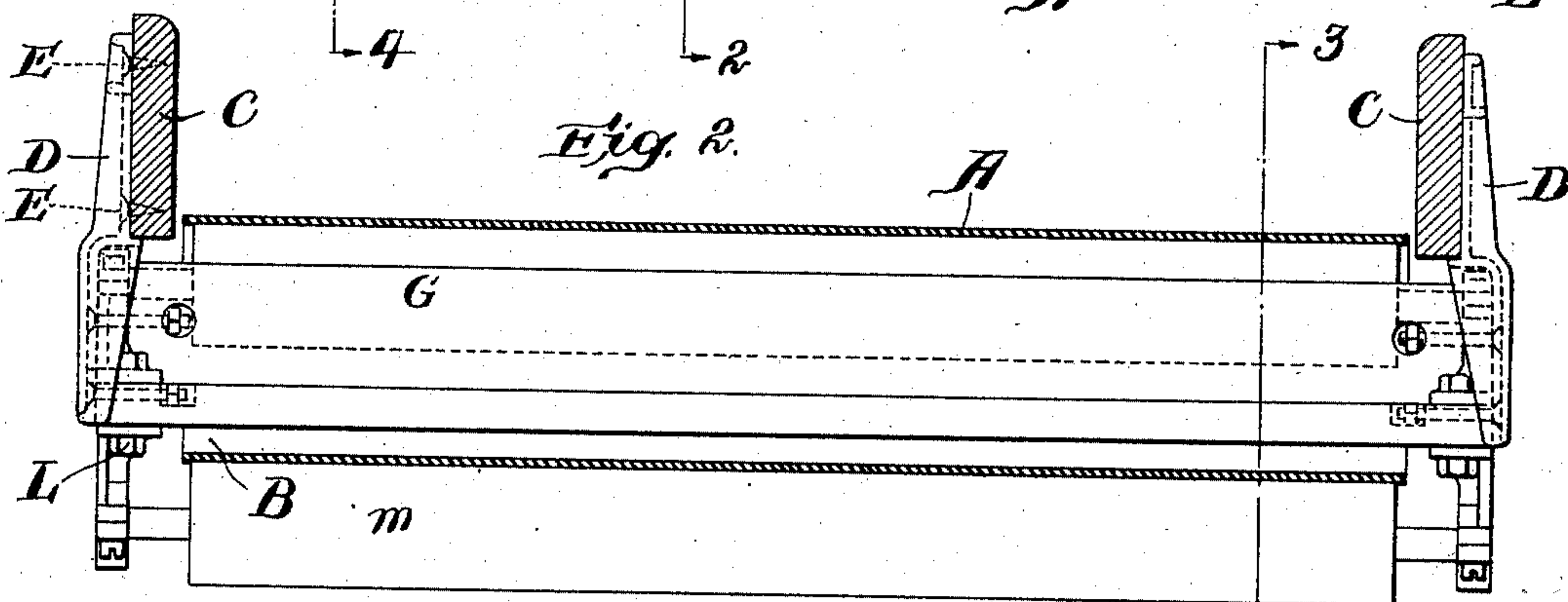


Fig. 3.

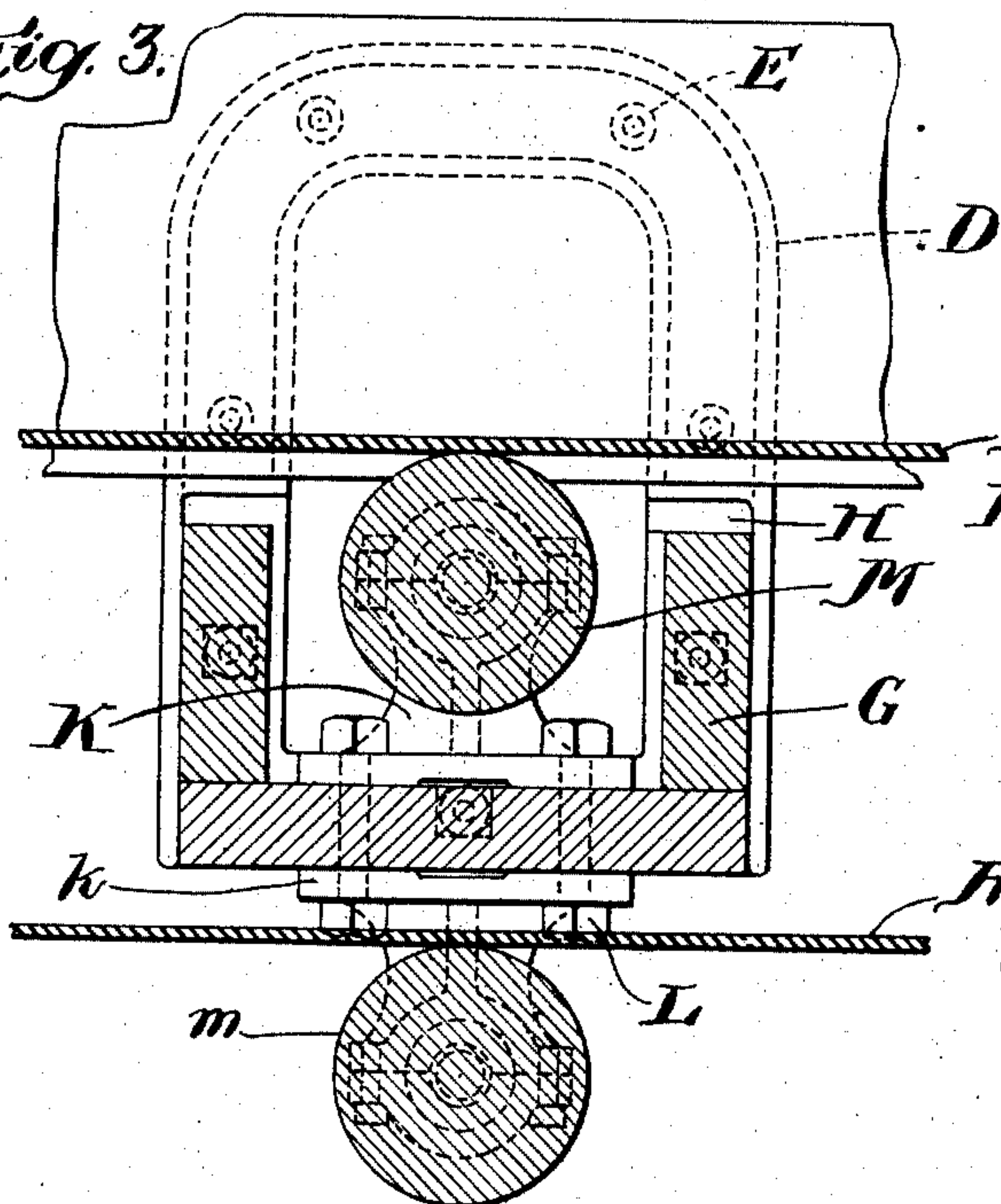
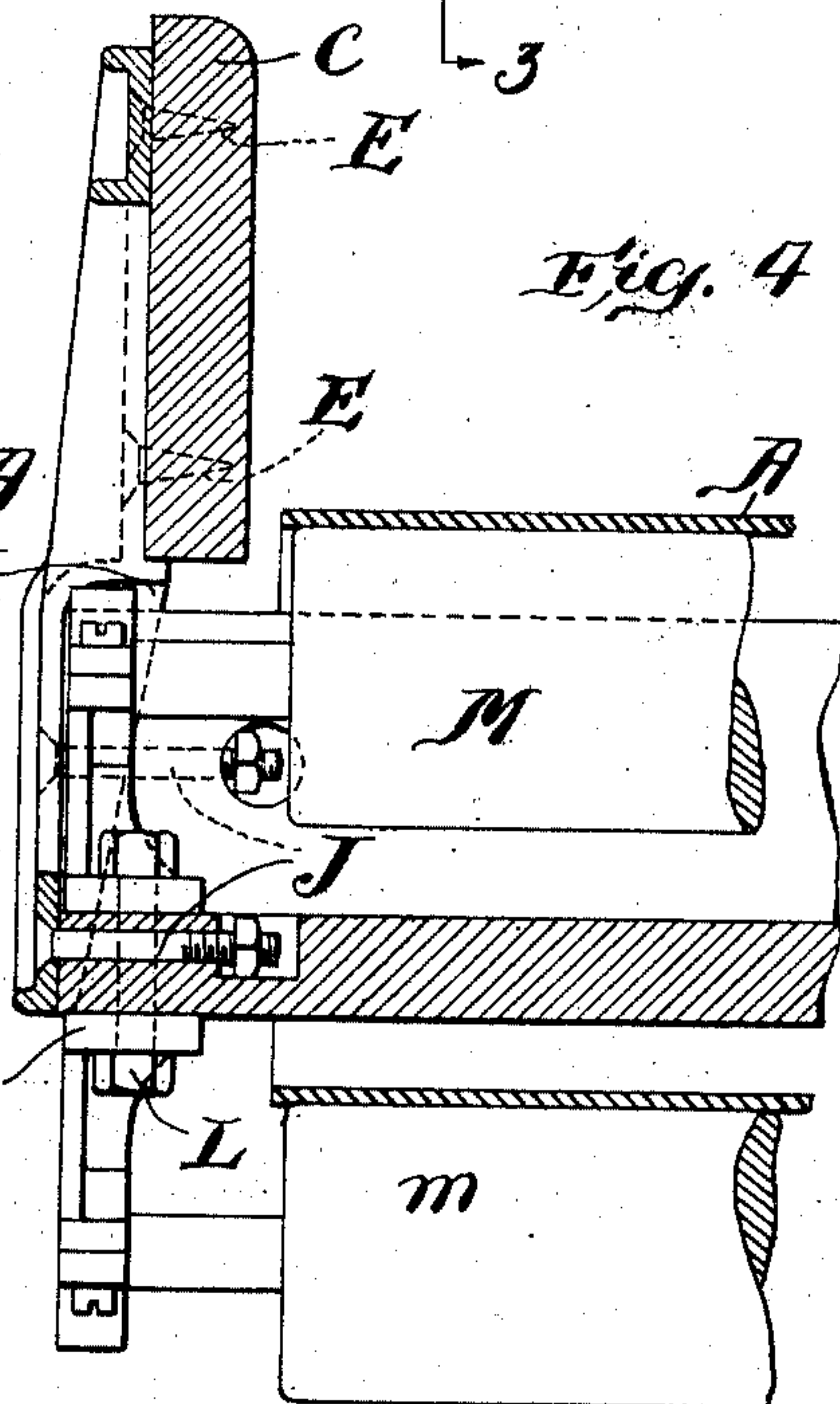


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES T. COWLEY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO LAMSON CONSOLIDATED STORE SERVICE COMPANY, OF NEWARK, NEW JERSEY, A CORPORATION OF NEW JERSEY.

CONVEYING APPARATUS.

No. 928,365.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed March 25, 1907. Serial No. 364,388.

To all whom it may concern:

Be it known that I, JAMES T. COWLEY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Conveying Apparatus, of which the following is a specification.

My invention relates to improvements in conveying apparatus, its object being to supply a simple device which may be easily and quickly assembled and which cannot be readily thrown out of alinement.

In the accompanying drawings which illustrate a construction embodying my invention, Figure 1 is a side elevation of the device; Fig. 2 is an enlarged cross section of same on line 2 2 Fig. 1 looking in the direction indicated by the arrows. Fig. 3 is an enlarged sectional view on line 3 3 Fig. 2. Fig. 4 is an enlarged section on line 4 4 Fig. 1 with parts broken away.

Like letters of reference refer to like parts throughout the several views.

A is an endless belt supported by drums B and which may be driven by any suitable power; C represents the longitudinal side strips or guides to prevent articles conveyed on the upper portion of the endless belt A from being displaced.

D represents brackets oppositely located and secured to each of the longitudinal strips C by screws E. Fixed to the outer side of brackets D are the hangers F which may be secured to and suspended from any suitable support.

G is a box-like strut or transverse support adapted to be mounted between the upper and lower portion of the belt A, each end fitting into a socket H in each of a pair of oppositely mounted brackets D. The struts G are composed of two vertical strips of wood secured to a horizontal or base piece forming a strut or transverse support which when fixed in the sockets H of the brackets D by bolts J serve to properly space the longitudinal guide strips C and which cannot readily be thrown out of alinement by reason of any twist or strain of the apparatus. The bearings K and L secured respectively to the upper and lower sides of the base piece of the strut G by bolts L carry journaled therein respectively the idlers M and m, the idlers

M supporting the upper portion of the traveling belt A, and the idlers m supporting the lower portion of said belt.

It will be readily seen that this device forms a rigid and simple structure which will stand severe strain without being thrown out of alinement and which may be quickly assembled or disassembled.

Having thus described the nature of my invention and set forth a construction embodying the same, what I claim as new and desire to secure by Letters Patent of the United States is:

1. In a conveying apparatus, an endless moving belt, strips located along the sides of said belt, means for driving said belt, idlers adapted to support the upper and lower portions of said belt, and a strut or transverse support located between the upper and lower portions of said belt for supporting said idlers.

2. In a conveying apparatus, an endless moving belt, strips located along the sides of said belt, means for driving said belt, idlers adapted to support the upper and lower portions of said belt, and a strut or transverse support located between the upper and lower portions of said belt for supporting said idlers.

3. In a conveying apparatus, an endless moving belt, strips located along the sides of said belt, idlers adapted to support the upper and lower portions of said belt, a box-like strut or transverse support mounted between the upper and lower portions of said belt and comprised of two vertically-disposed parts integral with or secured to a horizontally-disposed base piece, bearings secured to said strut and adapted to support said idlers, and means for supporting said struts.

4. In a conveying apparatus, an endless moving belt, longitudinally-disposed guide strips located along the sides of said belt, means for supporting said guide strips, idlers adapted to support the upper and lower portions of said belt, a box-like strut or transverse support mounted between the upper and lower portions of said belt and comprised of two vertically disposed parts integral with or secured to a horizontally-disposed base piece, means for securing said

strut to said guide strips, and bearings secured to said strut and adapted to support said idlers.

- 5 5. In a conveyer, a conveyer frame composed of guide rails with struts for spacing said rails, brackets for coupling the struts and rails, an endless belt, idlers for said belt, and drums for driving said belt.

In testimony whereof, I have signed my name to this specification in the presence of 10 two subscribing witnesses, this 20th day of March A. D. 1907.

JAMES T. COWLEY.

Witnesses:

DELIA S. PETERSON,
WILLIAM WILCOX.