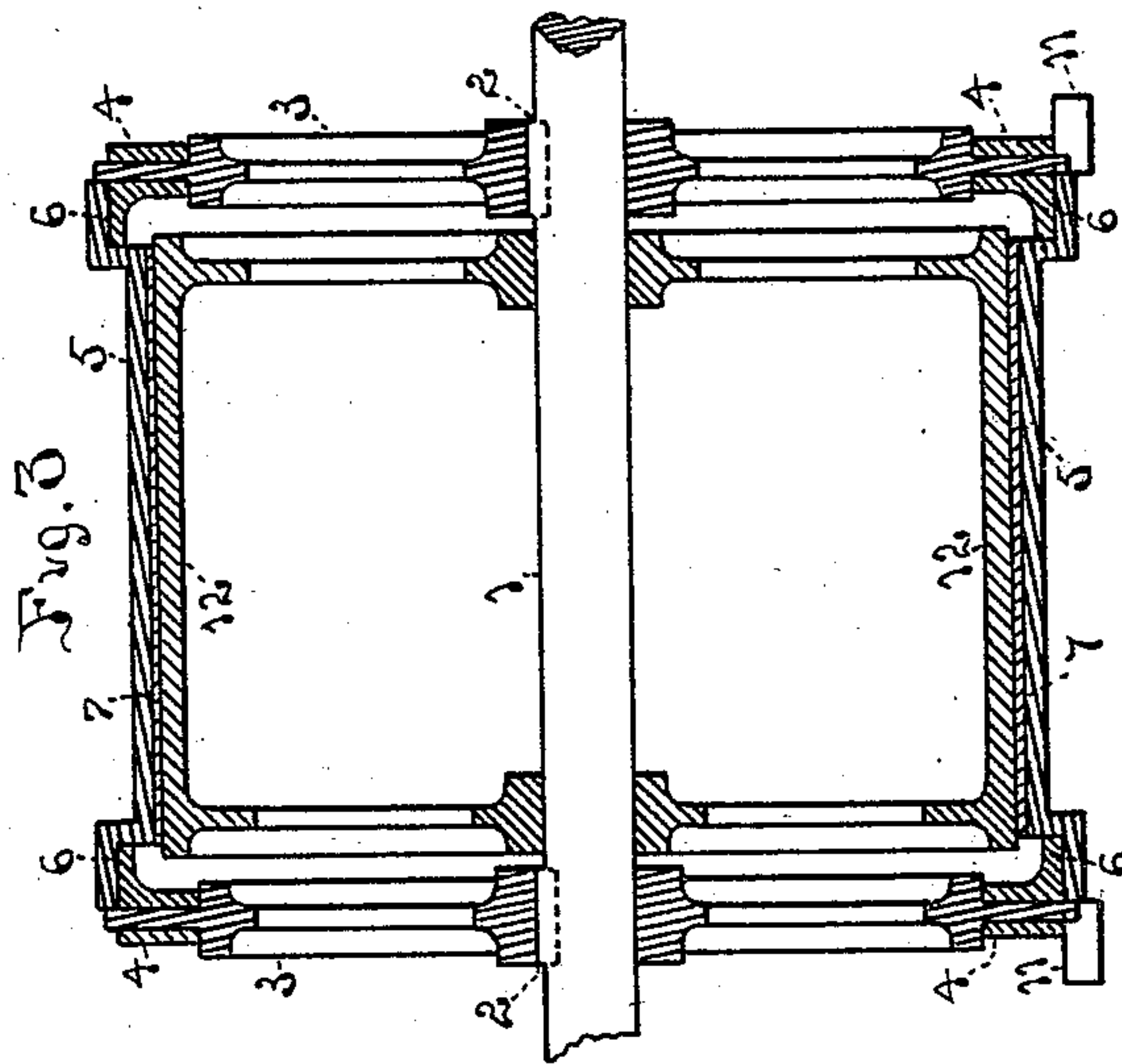
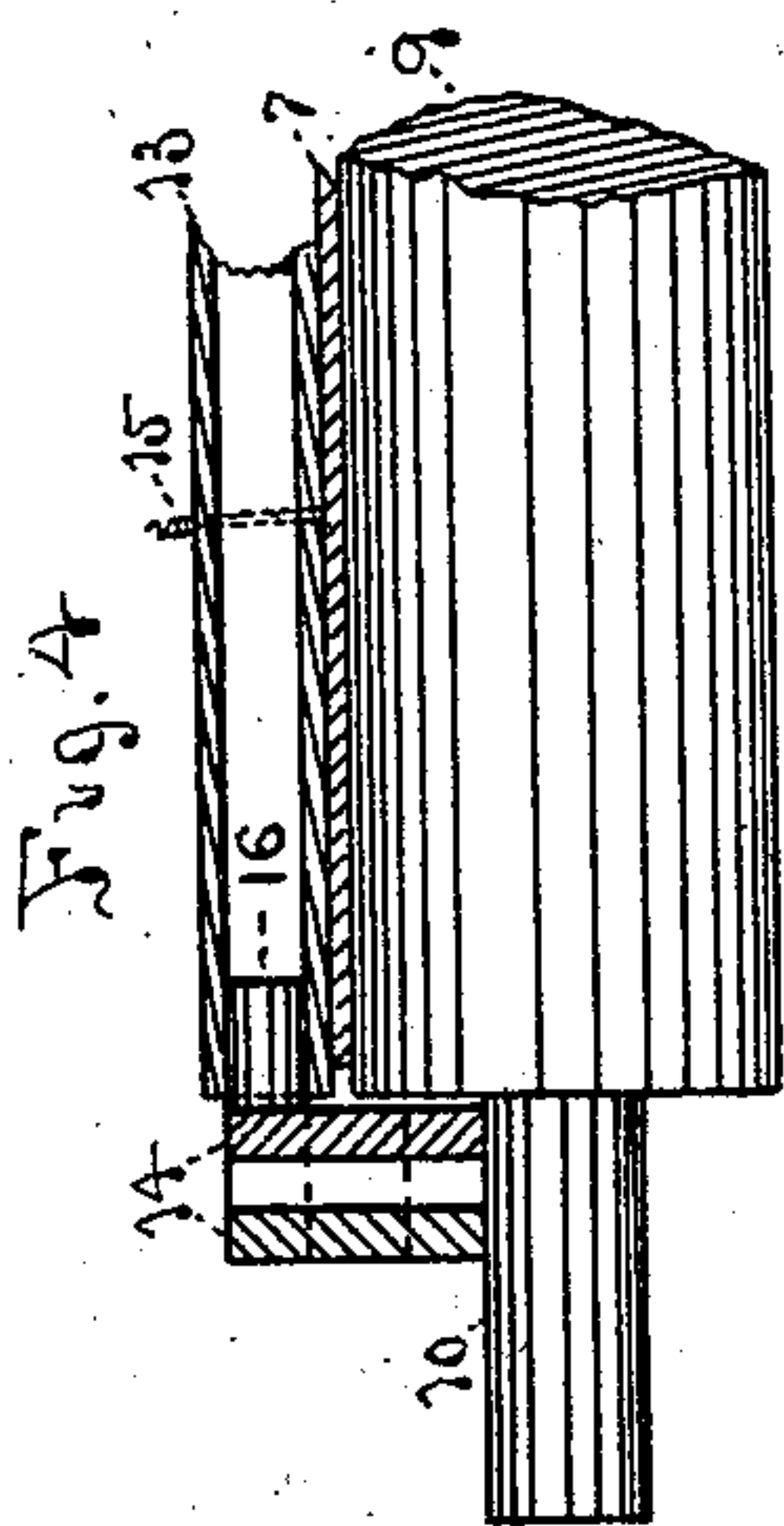
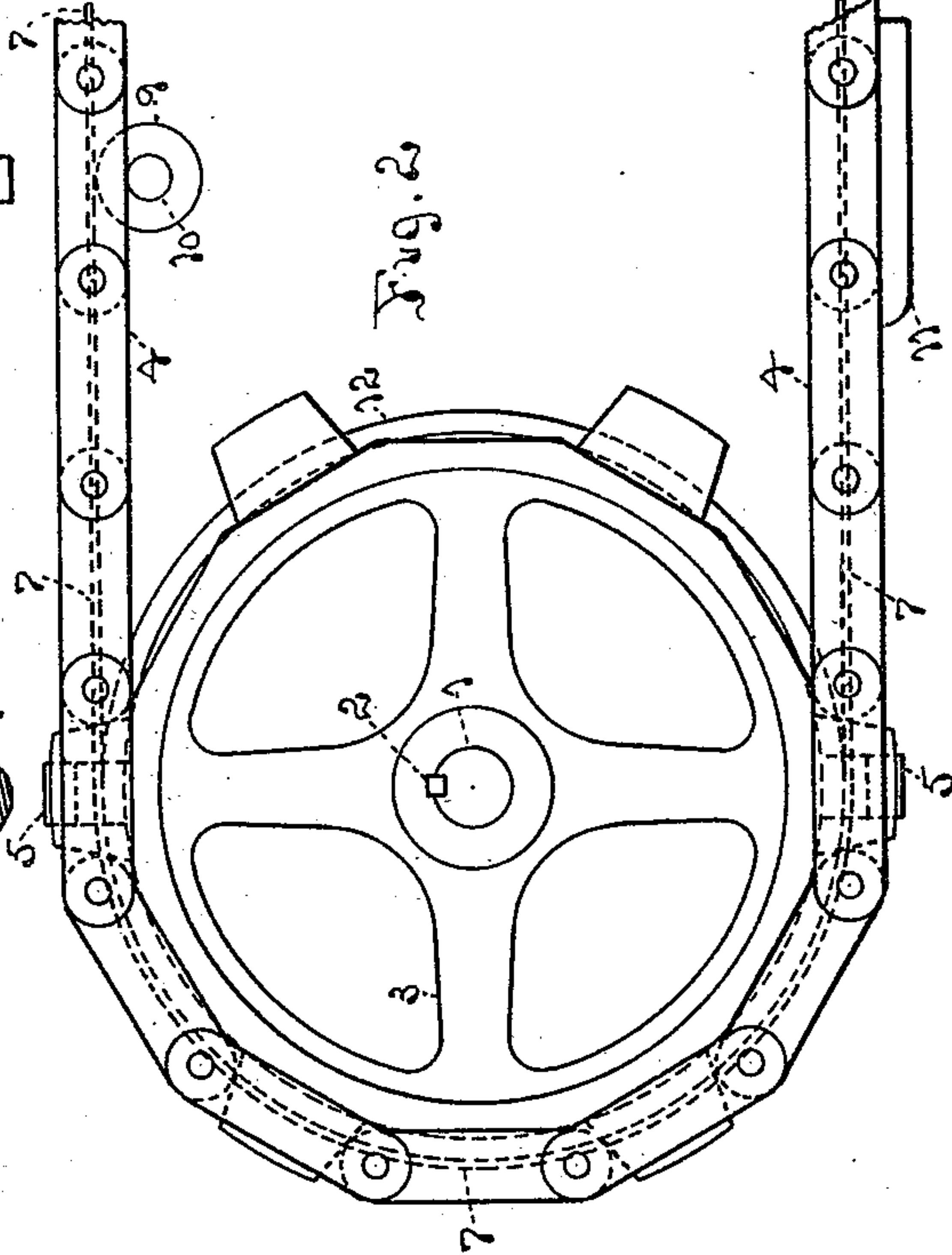
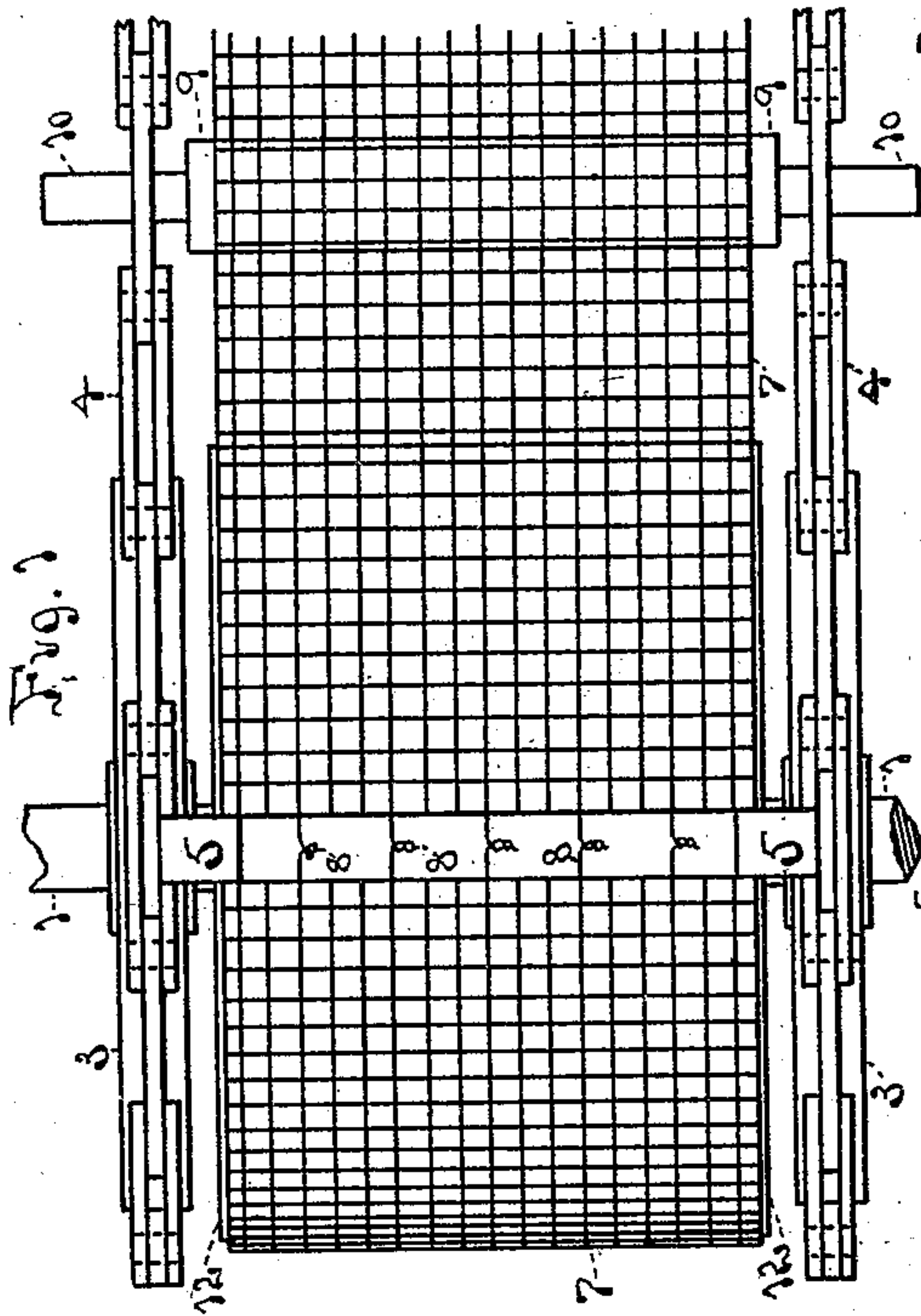


(No Model.)

F. L. FURBUSH.
CONVEYER.

No. 561,162.

Patented June 2, 1896.



Witnesses
Wm. S. Brown
P. J. O'Brien

Inventor
Frank L. Furbush
by his attorney
Lepine Hall Rice.

UNITED STATES PATENT OFFICE.

FRANK L. FURBUSH, OF GRANITEVILLE, MASSACHUSETTS, ASSIGNOR TO
FREDERICK G. SARGENT AND ALLAN C. SARGENT, OF SAME PLACE.

CONVEYER.

SPECIFICATION forming part of Letters Patent No. 561,162, dated June 2, 1896.

Application filed September 3, 1895. Serial No. 561,190. (No model.)

To all whom it may concern:

Be it known that I, FRANK L. FURBUSH, of Graniteville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Conveyers, of which the following, taken in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a top view of the drum and sprocket-wheels at one end of the conveyer with the carrying parts engaged therewith. Fig. 2 is a side view of the same. Fig. 3 is a vertical section of the same, taken through the axis of the drum and sprocket-wheels. Fig. 4 is an elevation, partly sectioned, of a modified carrying member and support.

Upon a shaft 1 are mounted and keyed (keys 2) two sprocket-wheels 3, at the distance apart desired for the width of the carrying member. The latter consists of side chains 4, cross-pieces 5, and a reticulated band or apron 7. The side chains are suitably proportioned to run over the sprocket-wheels. Certain links are cast with lugs 6, to which, in any appropriate manner, are secured the cross-pieces 5. The reticulated apron runs along underneath these, being secured, preferably, to them by lashing with wires 8. The middle portion of the cross-pieces is offset, so as to carry the apron in the plane of the pivot-line of the side chains. To support the apron with its load, I dispose along its course between the ends of the conveyer rollers 9, journaled in the side walls of the chamber in which the conveyer runs, or, if there is no chamber, in any suitable framework. If these rollers extended clear across the carrying member of the conveyer, they would support the chains but not the apron, because the apron is on the middle line and not on the under line of the chain. I therefore extend the rollers only the width of the apron and allow the chains to run over their shafts 10. I also support the bottom run of the unloaded carrying member by cleats or slides 11, secured like the rollers 9. Upon the shaft 1, between the sprocket-wheels 3,

is loosely mounted a drum 12, of suitable diameter to support (without driving) the apron. Heretofore the drum, shaft, and sprocket-wheels have formed a rigid member; but it has been found that the apron is stretched or broken, or both, and sags on the straightruns so as soon to wear out. This defect is present even when the apron is on the pivot-line of the chain, and is supported by frequent cross-pieces running across underneath it. With the cross-pieces farther apart, however, and above the apron, and with the drum loose, the apron is allowed to take its own speed and is no longer stretched or broken.

In Fig. 4, 13 is a tube or pipe, into the ends of which the lug 16 of the link 14 is shaped to fit snugly, no other fastening being required. The apron is wired (wires 15) to the tube.

I claim as new and of my invention—

1. The combination of a traveling apron, a revolving member over which it travels, traveling guiding mechanism connected with the apron, and an independent revolving member over which said mechanism travels.

2. The combination of an apron, a revolving drum over which it runs, and means independent of the drum for driving the apron.

3. The combination of the apron 7, loose drum 12, driving-wheels 3, and a driven member driving the apron.

4. The combination of the apron 7, loose drum 12, sprocket-wheels 3, sprocket-chain 4, cross-pieces 5, and wires 8.

5. The combination of the apron 7, the loose drum 12, the sprocket-wheels 3, the sprocket-chains 4, and means for connecting the apron with the chains in the pivot-line of the chains.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 29th day of August, A. D. 1895.

FRANK L. FURBUSH.

Witnesses:

CHAS. G. SARGENT,
A. B. MCGOWN.