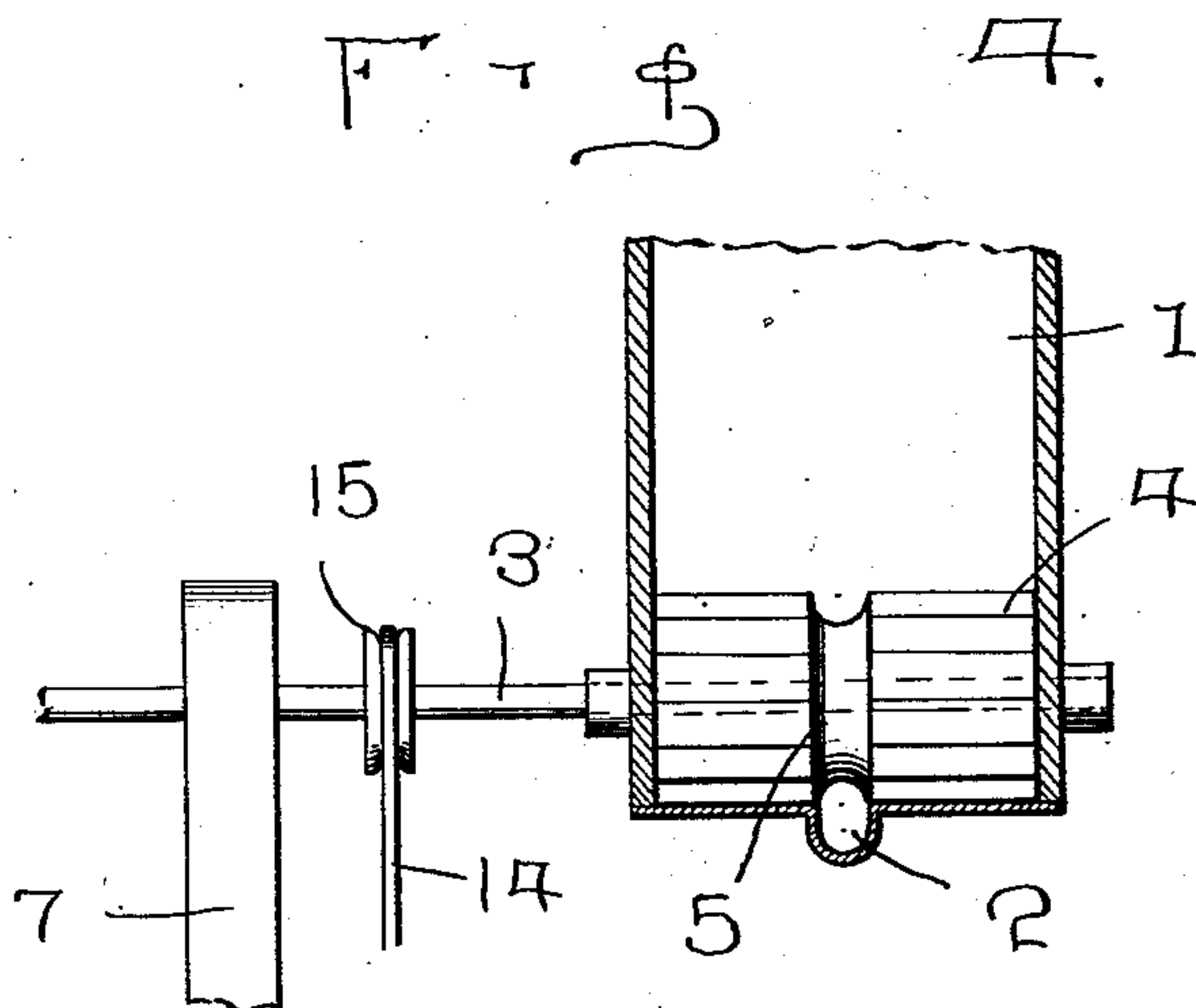
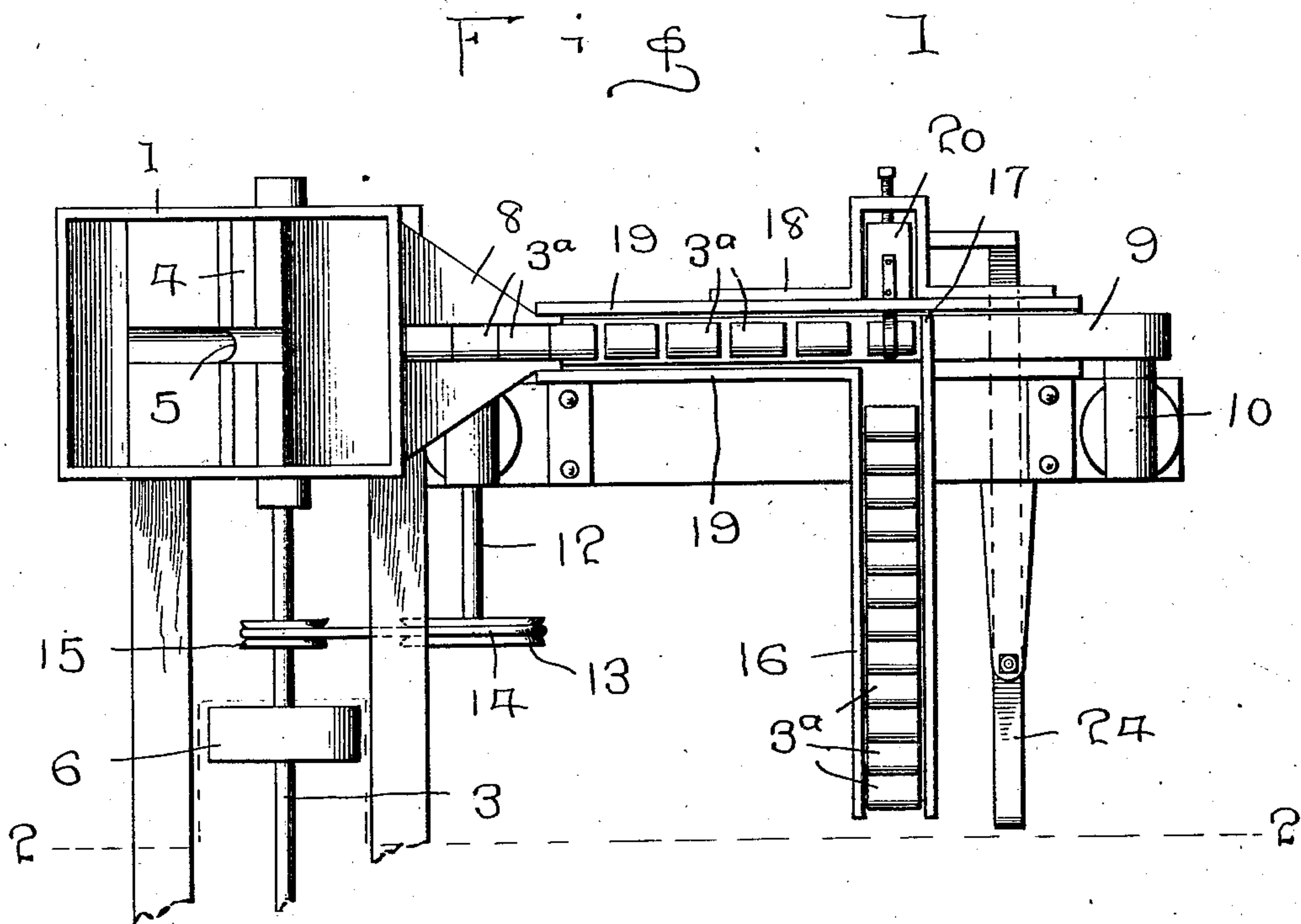


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CONVEYER.  
APPLICATION FILED JUNE 2, 1908.

915,542.

Patented Mar. 16, 1909.  
2 SHEETS—SHEET 1.



WITNESSES:

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BY

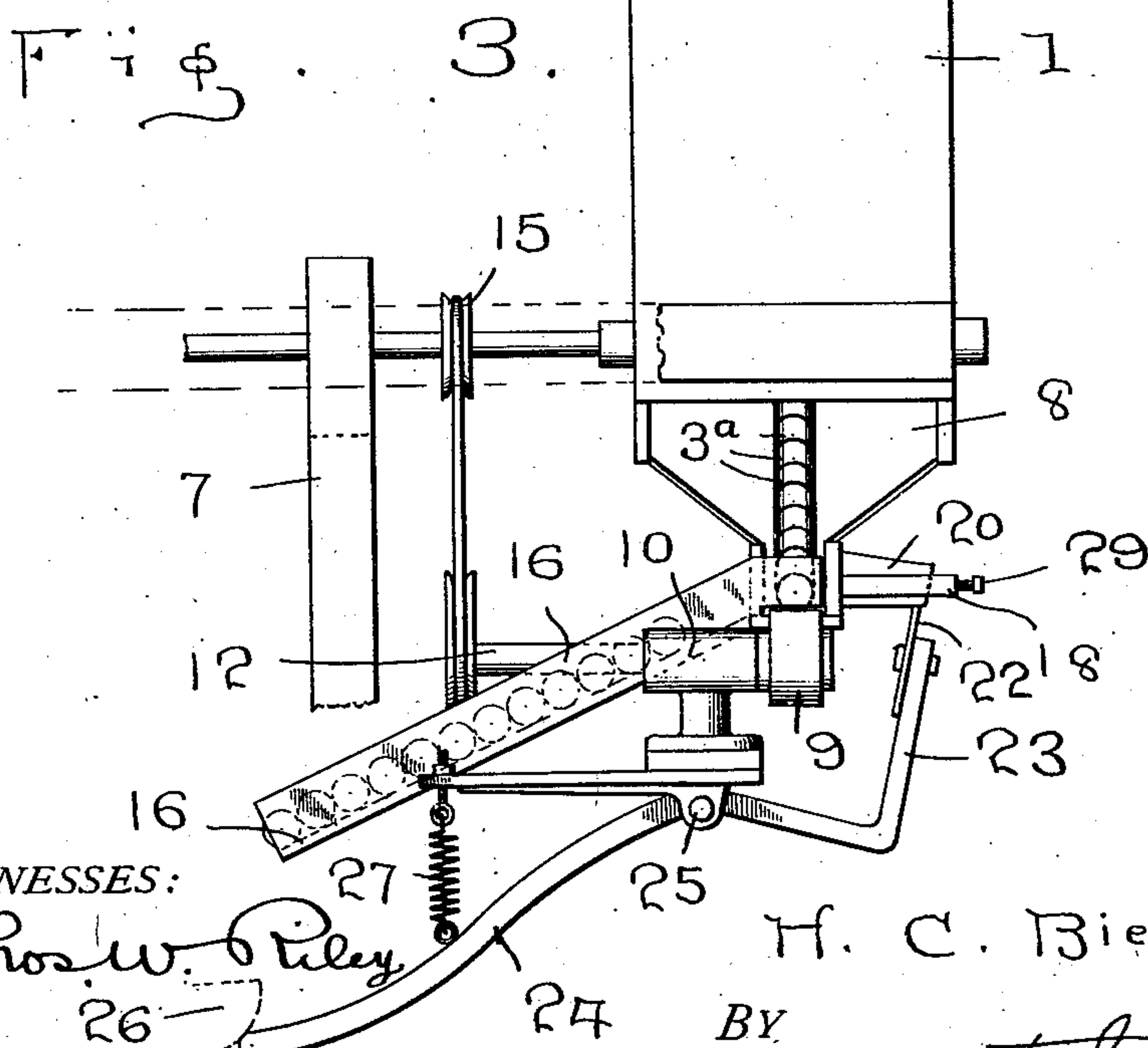
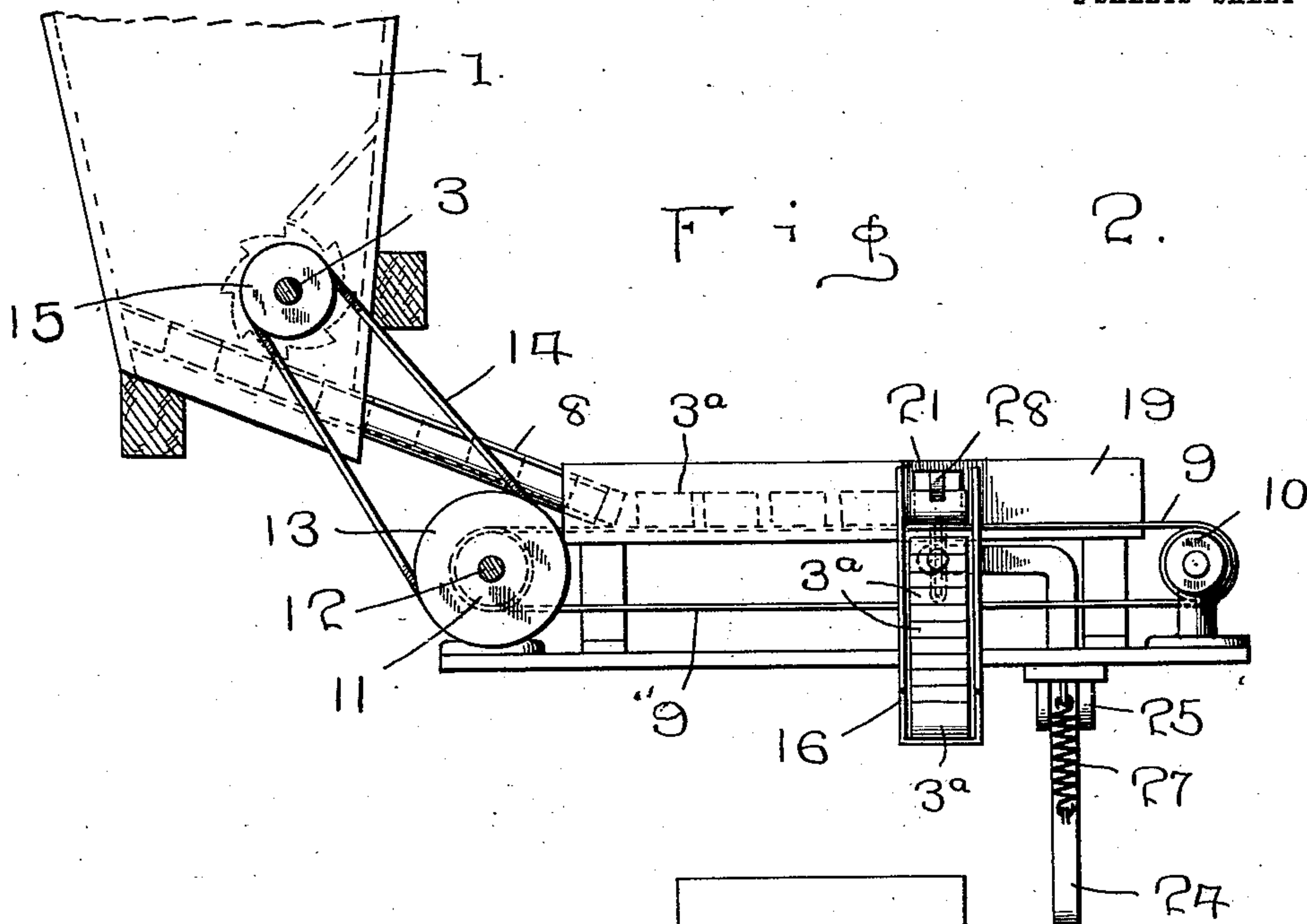
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# UNITED STATES PATENT OFFICE.

HUGO C. BIERTUEMPFEL, OF NEWARK, NEW JERSEY.

## CONVEYER.

No. 915,542.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed June 2, 1908. Serial No. 436,243.

*To all whom it may concern:*

Be it known that I, HUGO C. BIERTUEMPFEL, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Conveyers; 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.

This invention relates to new and useful improvements in conveyers and it is an object of the invention to provide a novel device of this character for conveying corks to a tapering machine therefor.

It is also an object of the invention to provide a novel device of this character wherein the corks are assured proper delivery to the tapering machine.

It is also an object of the invention to provide a novel device of this character wherein a plurality of chutes are employed, one being angular with relation to the other so that the corks may be fed to the tapering machine crosswise.

It is also an object of the invention to provide a novel device of this character whereby the corks will be automatically forced within the delivery chute proper.

It is also an object of the invention to provide a novel device of this character which will be simple in construction, efficient and advantageous in practice and comparatively inexpensive to manufacture.

With the above and other objects in view the invention consists of the details of construction and in the novel arrangement and combination of parts to be hereinafter more particularly referred to.

In describing the invention in detail reference will be had to the accompanying drawings forming part of this specification wherein like characters of reference denote corresponding parts in the several views and in which,

Figure 1 is a view in top plan illustrating the invention. Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1. Fig. 3 is a view in front elevation, and, Fig. 4 is a fragmentary enlarged view partly in section and partly in elevation illustrating a detail of the invention.

In the drawings, 1 denotes a hopper having its bottom arranged on a downward and for-

ward incline and having a central groove 2 in which a cork 3<sup>a</sup> can fit only when longitudinally disposed. The corks are dumped within the hopper 1 and in order that they may be caused to fit within the groove 2, a shaft 3 is mounted within the side walls of the hopper 1 and to this shaft within the hopper is fixed a longitudinally ribbed agitating drum 4 having an annular peripheral groove 5 registering with or positioned above the groove 2 in the base of the hopper. This shaft 3 projects beyond the hopper and has fixed thereto a pulley 6 engaged by a driving pulley 7 leading to a suitable source of power. The bottom of the hopper projects beyond the face thereof as at 8 and the groove 2 thereof discharges upon an endless conveyer 9 passing around the rollers 10 and 11. The shaft 12 of the roller 11 has secured to a projected end portion thereof a pulley 13 around which passes an endless belt 14 which also engages a pulley 15 fixed to the shaft 3.

The conveyer 9 carries the corks to a chute 16 depending therefrom at right angles and leading to the tapering machine (not shown). In order that the corks may not be carried beyond the chute 16, one of the walls thereof is projected above the conveyer as at 17 to form a stop or an abutment. By the arrangement of this chute, it is thought to be obvious that the corks are fed to the tapering machine crosswise which is the desired and required position of the corks.

In order that the corks may be assured of entry into the chute 16, a bracket 18 is fixed to the outer face of one of the guide boards 19 of the conveyer 9 in which is movable a plunger block 20 projecting through an opening 21 in the guide board 19. This block at its outer end has a depending strap 22 which is secured to an angular end 23 of a lever 24 pivoted intermediate its length as at 25 to the framing of the device. The free portion of the lever 24 is arranged on a downward and compound curve and is adapted to be engaged by a movable member of a tapering machine (indicated by dotted lines at 26). This contact will cause the block 20 to move inwardly and force the cork into the chute 16. The block 20 is held normally within the bracket by a contraction spring 27 interposed between the framing and the lever 24 and secured thereto at its ends. The forward face of the plunger block 20 is provided with the extending springfinger 28 which is adapt-



ed to contact with a cork and hold it against displacement until it is forced into the chute 16 by the plunger block 20. In order that proper adjustment of the plunger block 20 with relation to the conveyer 9 may be as-  
 5 sured, the screw 29 is threaded through the rear of the bracket 18 and contacts with the rear face of the plunger block 20.

I claim:

10 1. A device of the character described, comprising a hopper provided with a feed roller or drum having centrally therein an annular peripheral groove, said hopper hav-  
 15 ing in its forward bottom edge a depressed groove opposed to the groove of said drum, a chute leading from said hopper in alinement with the groove in the bottom thereof, an endless carrier adapted to receive the ob-  
 20 jects or corks fed from said chute, a second chute arranged at an angle to the aforesaid chute and a bracket arranged at the angle between said chutes, a flanged block arranged in said bracket and adapted to direct the ob-  
 25 jects or corks from the first referred to chute and means for actuating said flanged block in changing the direction of said objects or corks.

2. A device of the character described, comprising a hopper having a groove in its  
 30 bottom, at the forward edge, a drum or roller arranged in said hopper, having a peripheral groove opposed to the aforesaid groove, a chute receiving objects or corks from said hopper, an endless carrier arranged to re-  
 35 ceive said objects or corks from said hopper, a chute arranged above said carrier, in the

same vertical alinement therewith, a second chute arranged at an angle to the first referred to chute, a bracket arranged at the point of conjunction between said chutes, a flanged  
 40 block arranged in said bracket and having a finger adapted to engage said objects or corks as fed from the first referred to chute and direct the same into the latter chute, an angular lever having connection with said flanged  
 45 block and means for actuating said lever.

3. A device of the character described, comprising a hopper having in its bottom a central groove delivering at its forward edge, a drum or roller having a peripheral groove  
 50 opposed to the aforesaid groove, a chute leading from said hopper, an endless carrier arranged in vertical alinement with said chute and adapted to receive objects or corks from said hopper, a second chute arranged at  
 55 an angle to the aforesaid chute, a flanged block or member arranged at the angle between said chutes and having a finger adapted to engage the objects or corks delivered into the first referred to chute for directing  
 60 said objects or corks into the latter chute, said flanged block having means for actuating said flanged block including an angular lever having connection with said flanged block and means for actuating said lever.  
 65

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HUGO C. BIERTUEMPFEL.

Witnesses:

OSCAR A. BIERTUEMPFEL,  
 JOHN R. BIERTUEMPFEL.