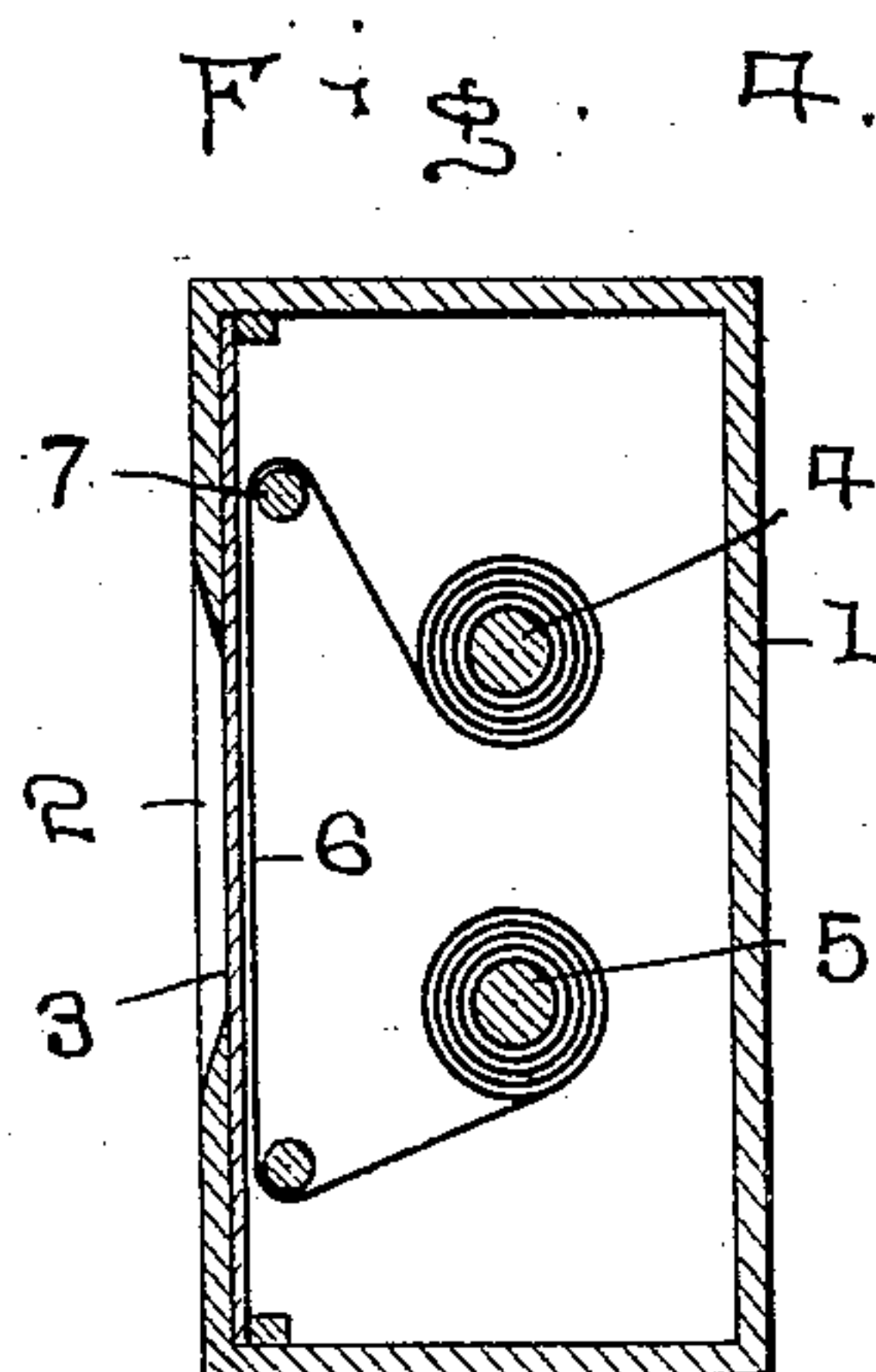
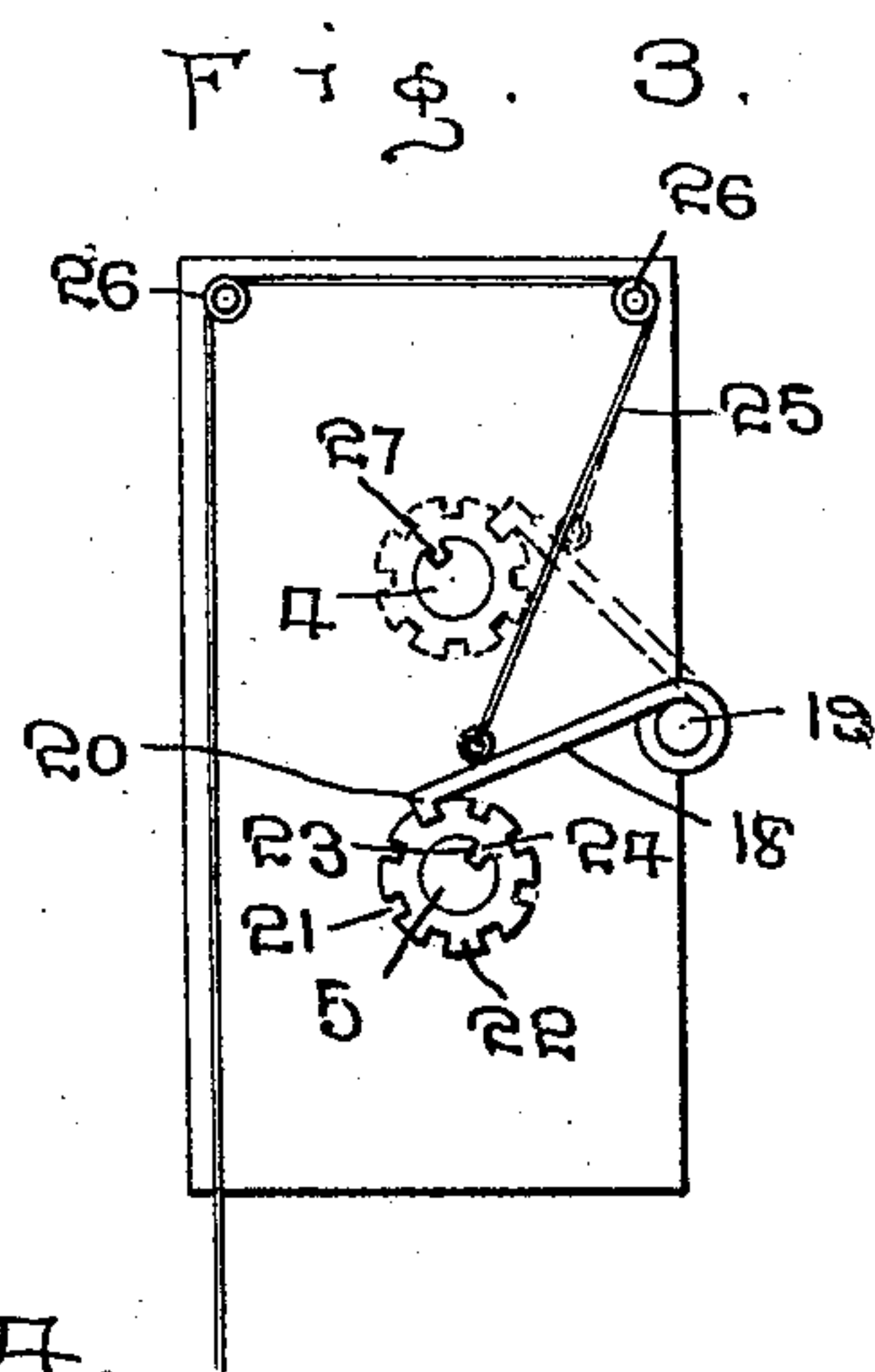
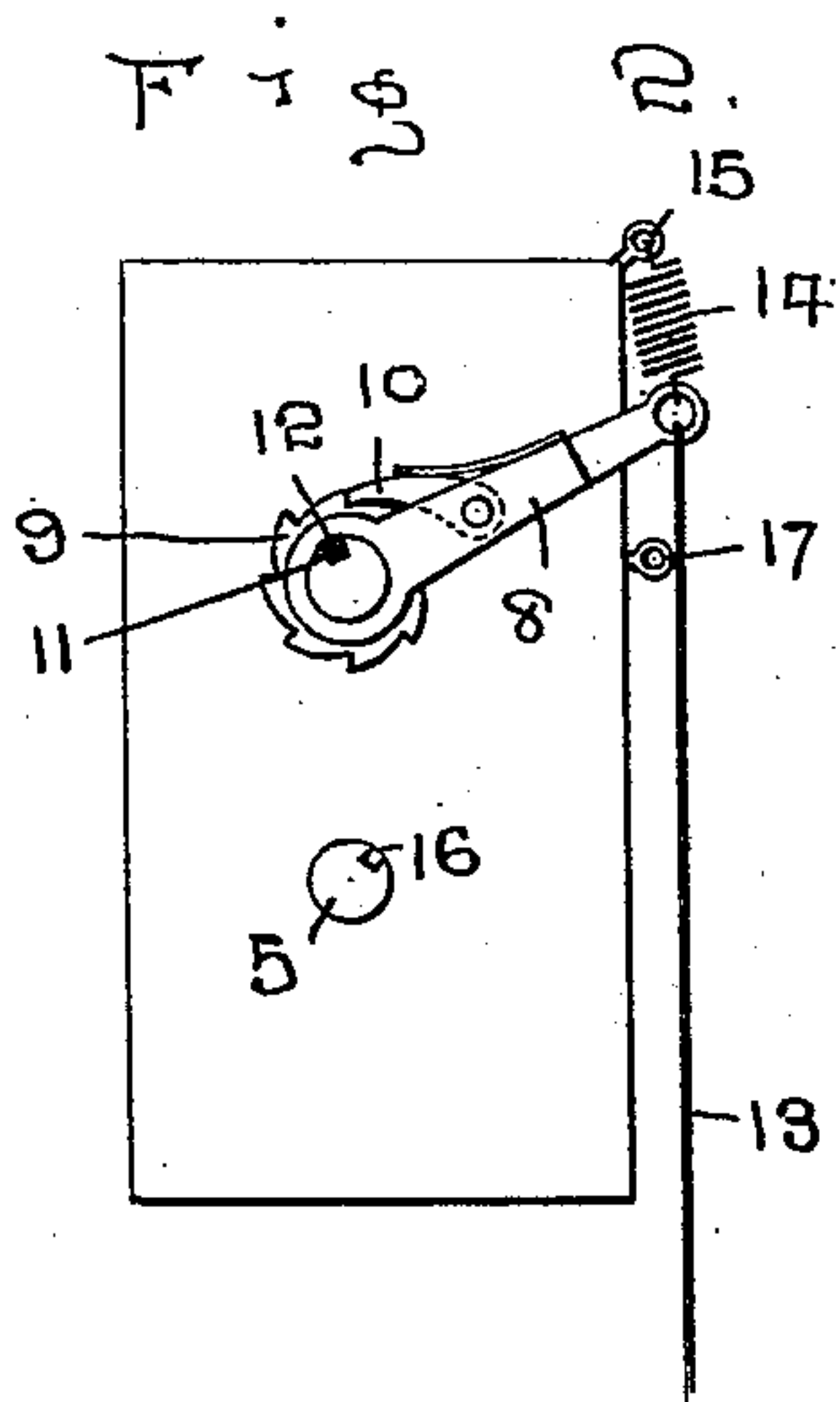
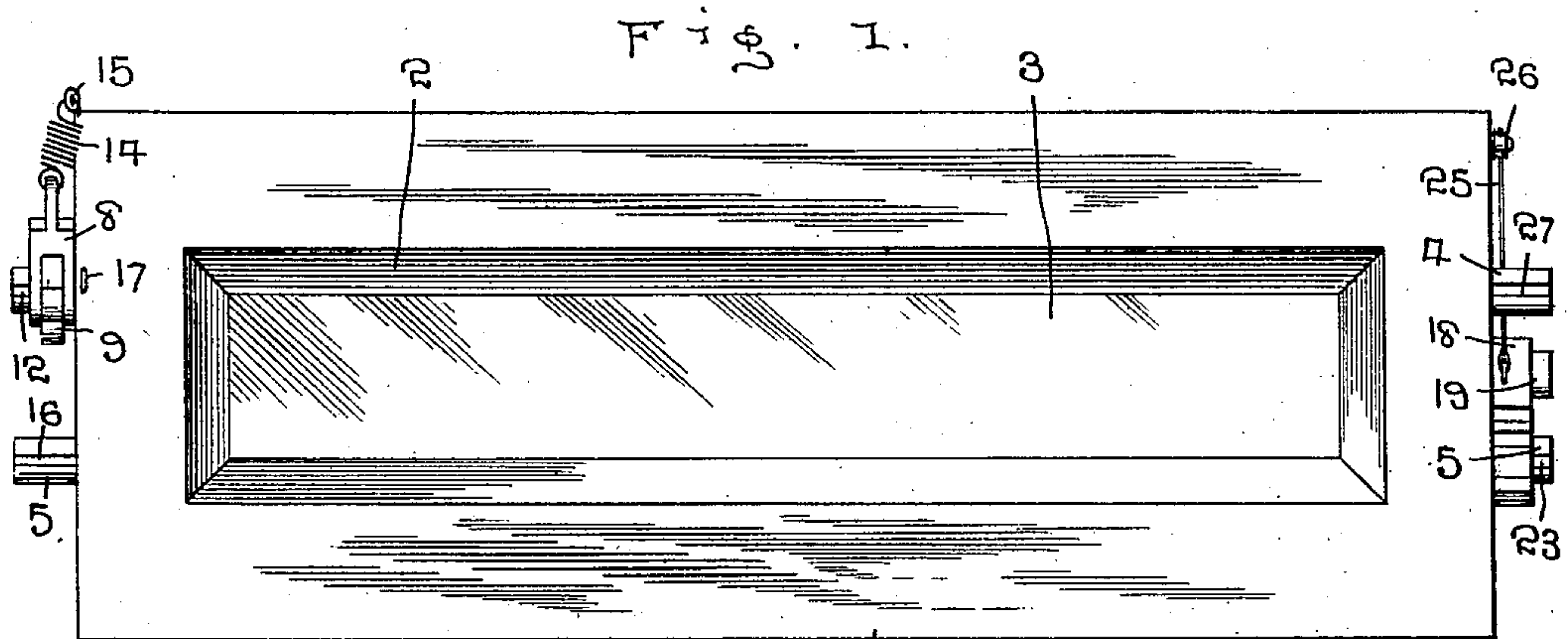


N. E. BARNES.
 INDICATOR OR BULLETIN.
 APPLICATION FILED MAY 16, 1910.

969,592.

Patented Sept. 6, 1910.



WITNESSES:

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UNITED STATES PATENT OFFICE.

NED E. BARNES, OF WILLIS, TEXAS, ASSIGNOR OF ONE-HALF TO OWEN A. SMITH AND ONE-FOURTH TO HERVEY A. McDONALD, BOTH OF WILLIS, TEXAS.

INDICATOR OR BULLETIN.

969,592.

Specification of Letters Patent.

Patented Sept. 6, 1910.

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To all whom it may concern:

Be it known that I, NED E. BARNES, a citizen of the United States, residing at Willis, in the county of Montgomery and State of Texas, have invented certain new and useful Improvements in Indicators or Bulletins; 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.

My invention relates to new and useful improvements in indicators or bulletins and more particularly to that class adapted to be used in street cars or railway coaches and my object is to provide a belt, upon which are placed the objects to be exhibited, which may consist of any suitable form of advertising the stations or street crossings or if preferred, the two may be combined.

A further object is to provide shafts, upon which said belt is to be wound.

A further object is to provide a housing for the belt and shafts and place therein an opening, in registration with which the printed matter upon the belt is adapted to be moved.

A further object is to provide means whereby either of said shafts may be rotated, and, a further object is to provide means for limiting the rotation of said shafts, whereby the movement of the belt will be stopped at the proper position to exhibit the printed matter thereon.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawings which are made a part of this application, Figure 1 is a front elevation of the indicator. Fig. 2 is an end elevation thereof. Fig. 3 is an end elevation of the opposite end of the indicator, and, Fig. 4 is a transverse sectional view through the indicator.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates a housing, which may be constructed in the usual or any preferred manner, in the front wall of which is provided an opening 2 and over said opening is preferably positioned a glass 3 or any suitable transparent material. Extending longitudinally through the housing and beyond each end thereof are shafts 4 and 5,

upon which a belt 6 is adapted to be wound, one end of the belt being fastened to the shaft 4 and the opposite end to the shaft 5. Guide rollers 7 are placed above and below the opening 2, around which the belt extends, so as to position the belt adjacent the opening 2 in the housing, whereby the printed matter on the belt may be readily observed through the opening. If the belt is being wound upon the shaft 4, a lever 8 is mounted upon one end of the shaft 4, the end of the lever engaging the shaft being bifurcated to receive a ratchet wheel 9 with which coöperates a pawl 10 carried by the lever. The lever 8 is rotatably mounted upon the shaft, while the ratchet wheel 9 is fixed thereto by extending a tongue 11 into a groove 12 in the shaft and it will be readily seen that when the lever is moved upwardly, the shaft 4 will be rotated and the belt wound thereon, while the pawl will freely ride over the ratchet when the lever is swung in the opposite direction. The free end of the lever is swung downwardly through the medium of a cable 13, the free end of the cable being positioned in convenient reach so that a pull can be made upon the cable. As soon as the cable is released, the free end of the lever is swung upwardly and the shaft 4 rotated by means of a spring 14, one end of which is attached to the lever and the opposite end to an eye 15 on the housing 1. The same end of the shaft 5 is also provided with a groove 16, which is adapted to receive the tongue 11 of the ratchet wheel when the belt is to be wound upon the shaft 5 and when the lever and ratchet construction are engaged with the shaft 5, the spring 14 is engaged with an eye 17 placed upon the housing 1 at a point below the eye 15. The rotation of the shafts is limited, whereby the belt will be moved the proper distance each time to display the printed matter placed thereon by means of a latch 18, one end of which is pivoted to a stud 19, while the opposite end thereof is provided with a detent 20, which engages notches 21 in the periphery of a wheel 22. When the lever 8 is coöperating with the shaft 4, the wheel 22 is engaged with the shaft 5 and in order to cause the wheel to rotate with the shaft, said shaft is provided with a groove 23, with which engages a tongue 24 on the wheel 22 and it will be readily seen that when the tongue is en-

gaged with the groove, said wheel cannot rotate independently of the shaft. The notches are placed a sufficient distance apart so as to permit the belt to travel the width of the opening in the casing, while the wheel is traveling the distance from one notch to the next succeeding notch, and when the wheel 22 has rotated a sufficient distance to bring the next succeeding notch into registration with the detent, said detent will descend into the notch and prevent further rotation of the shafts and belt.

Prior to giving a pull on the cable 13, the latch 18 is elevated out of engagement with the wheel, which is accomplished by engaging one end of a cable 25 with the latch and extending said cable over sheaves 26 and in convenient reach of the person operating the indicator. As soon as the lever starts to rotate the shaft 4, the latch is released and permitted to descend so that the detent thereon will enter the next succeeding notch when moved into alinement with the detent.

If the belt is being wound upon the shaft 5, the wheel 22 is mounted upon the shaft 4, which shaft is also provided with a groove 27 to receive the tongue on said wheel and the stud 19 is so arranged that the latch can be swung upwardly to cooperate with the wheel when placed on the upper shaft.

By this construction, it will be readily seen that the belt can be moved from end to end to exhibit certain printed matter thereon and when the car has reached the end of the route and starts in the opposite direction, the belt can be wound in the opposite direction by transferring the lever and stop mechanism from one shaft to the other. It will further be seen that the indicator can be readily mounted at any convenient point within the coach or car and conveniently operated by giving a pull to the cables depending from parts of the indicator, and it will likewise be seen that the movement of the belt in either direction can be readily regulated and stopped at the proper place.

What I claim is:—

1. The herein described indicator, comprising a casing, shafts extending through said casing, a belt having its ends attached

respectively to said shafts, a lever and ratchet mechanism adapted to be attached to either of said shafts to wind the belt thereon, a wheel having notches therein, said wheel being adapted to be engaged with either of said shafts and a pivotally mounted latch adapted to engage said notches and limit the rotating movement of either of the shafts to which the wheel is attached.

2. An indicator of the class described, comprising a casing having an opening therethrough, a pair of shafts extending longitudinally of the casing and one above the other, a belt having its ends secured respectively to said shafts, means to cause the belt to pass in close proximity to said opening in the casing, a lever adapted to be placed upon either of said shafts and swing thereon, a ratchet wheel adapted to be mounted upon either of said shafts, means to cause the ratchet wheel to rotate with the shaft, a pawl on the lever adapted to operate the ratchet wheel to rotate the shaft, means whereby a downward pull may be given said lever, automatic means for elevating said lever and means at the opposite end of the casing adapted to be engaged with either of said shafts to limit the rotating movement of the shafts.

3. An indicator, comprising a pair of shafts, a belt adapted to be wound upon either of said shafts, means to rotate one of the shafts to wind the belt thereon and a notched wheel adapted to engage either of said shafts and rotate therewith, a latch pivoted to the housing and having a detent thereon adapted to engage said notches of the wheel when the wheel is on either shaft and means whereby said latch may be swung upwardly and disengaged from the wheel when the wheel is in position on either shaft.

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

NED E. BARNES.

Witnesses:

S. A. CRAWFORD.

O. A. SMITH.