No. 691,998. Patented Jan. 28, 1902.

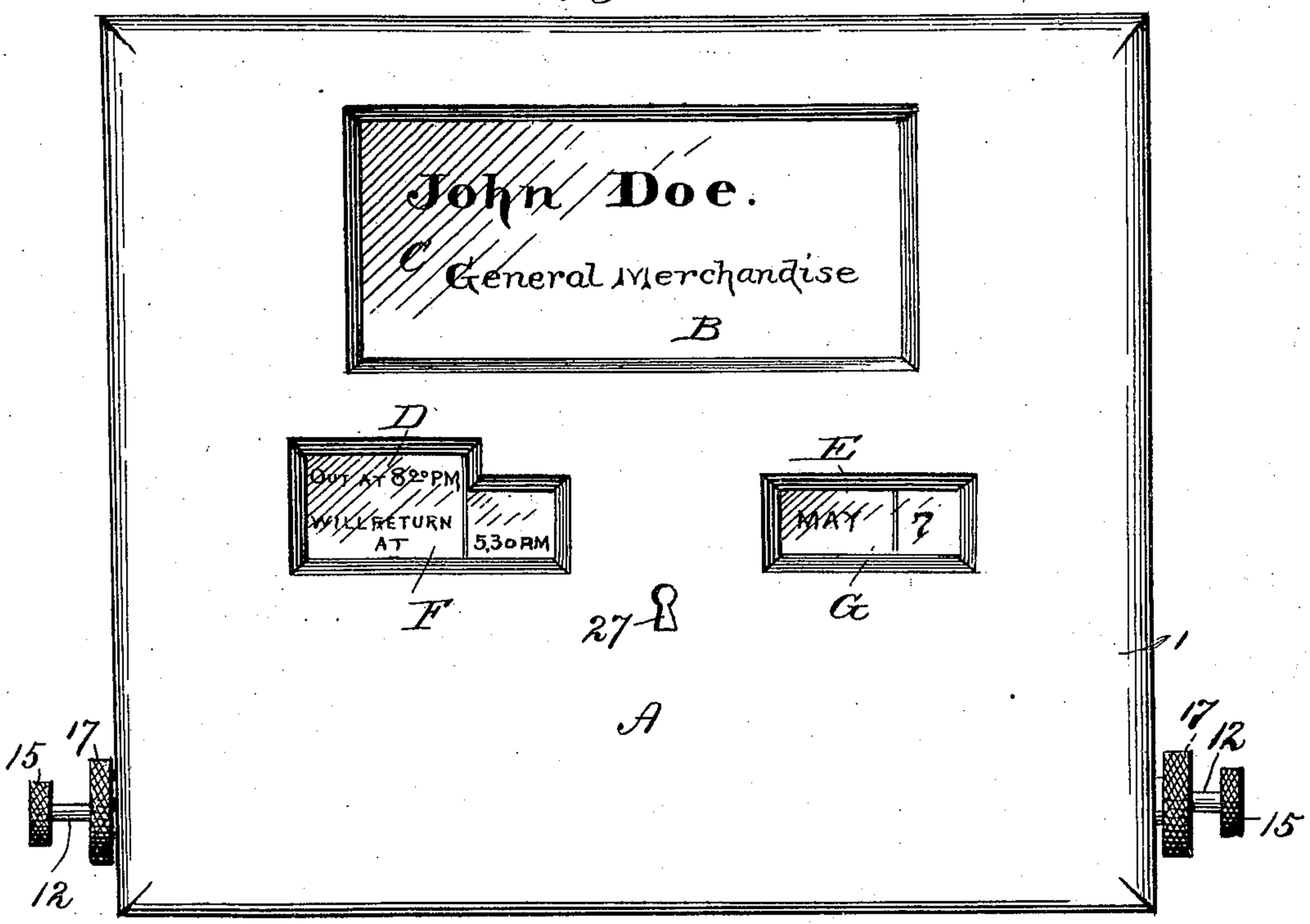
R. A. WOOD.

INDICATOR.

(Application filed May 6, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.



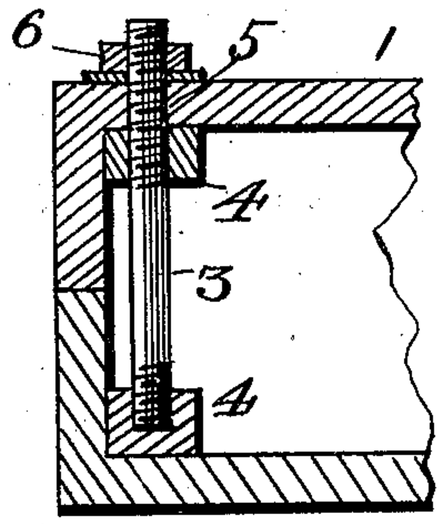


Fig. 4.

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(No Model.) 2 Sheets—Sheet 2.

Fig. 2

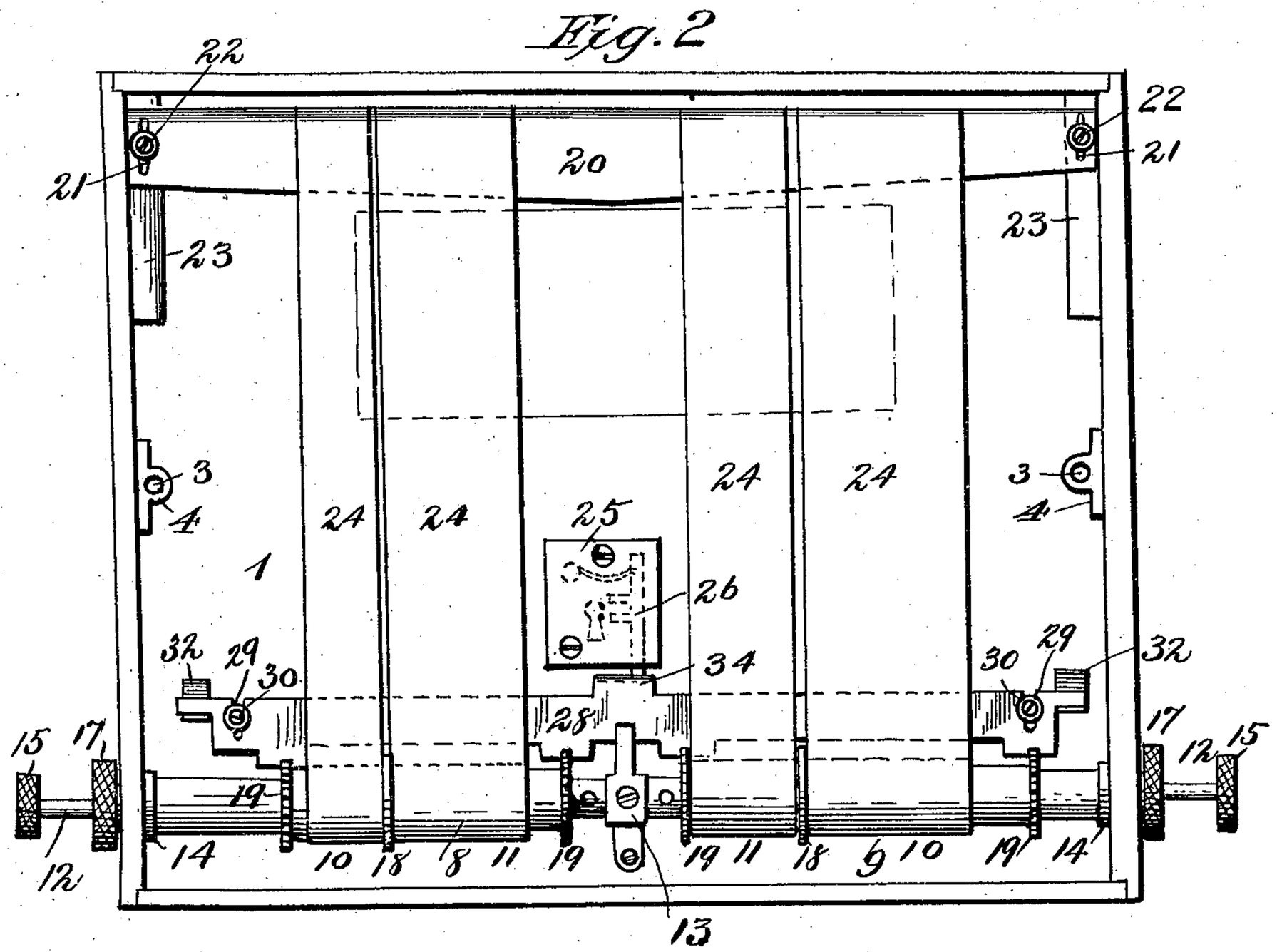


Fig. 5.

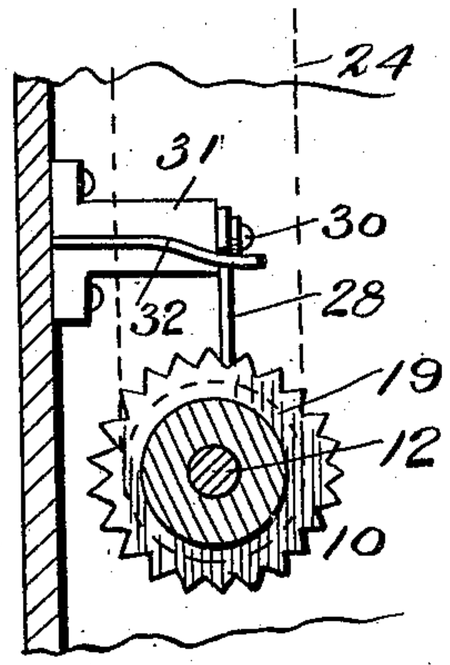
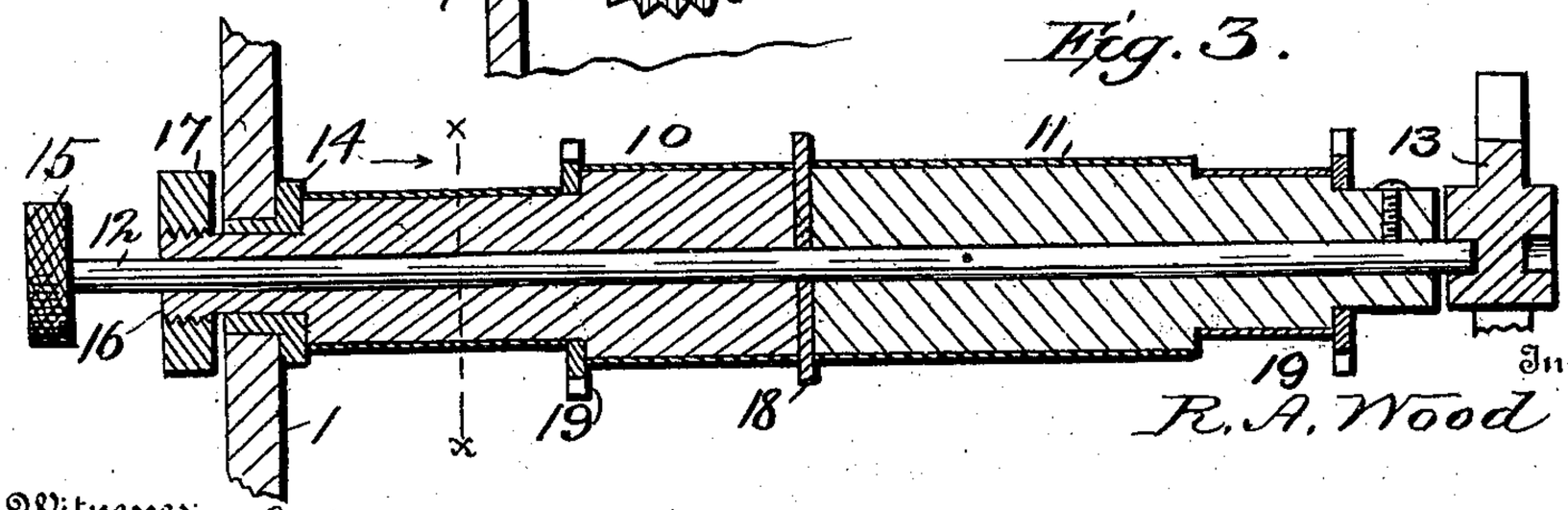


Fig. 3.



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UNITED STATES PATENT OFFICE.

ROSEBERT A. WOOD, OF PRIDEMORE, VIRGINIA.

INDICATOR.

SPECIFICATION forming part of Letters Patent No. 691,998, dated January 28, 1902.

Application filed May 6, 1901. Serial No. 58,931. (No model.)

To all whom it may concern:

Be it known that I, ROSEBERT A. WOOD, a citizen of the United States, residing at Pridemore, in the county of Lee and State of Virginia, have invented certain new and useful Improvements in Indicators; and I do 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.

The invention relates to indicators primarily designed for use in offices, business-houses, or the like to indicate the return of the occupant or give general notice to any caller during the absence of the occupant from his place of business, although it may with equal facility be used as a station-indicator to note the arrival and departure of trains and give other such information to the general public as may be desired.

The object of the invention is to provide an indicator of this character which shall be simple of construction, durable in use, and comparatively inexpensive of production and which when set may be locked in its set position, and thus prevent mischievous or evilly-disposed persons from tampering with it.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a front view of my improved indicator. Fig. 2 is a rear view, the back piece being removed to more thoroughly illustrate the details of construction, showing the rolls locked in adjustment. Fig. 3 is a longitudinal vertical sectional view taken through the casing of the indicator and the feed-rolls. Fig. 4 is a vertical sectional view taken through one end of the complete indicator, showing the manner of making the two-part casing. Fig. 5 is an enlarged vertical sectional view to show the lock-bar in engagement with one of the toothed wheels.

In the drawings, 1 denotes the casing, which consists of two parts suitably secured together by bolts 3, each of which is screw-threaded into a socket 4, secured to one part of the casing, and projects through an aperture 5 in the other part and receives a nut 6. The front part A of the casing has a large vision-opening B, covered with a glass pane C, through which may be displayed a sign and business-card, as shown, and is provided with other vision-openings D and E, similarly provided with panes F and G.

8 and 9 denote two sets of rolls journaled within the casing. Each set consists of two rolls 10 and 11, mounted upon a shaft 12, having its inner end journaled in the bearing 13 within the casing and its outer end journaled in the bearing 14, secured to the end of the casing. The roll 11 of each set is fixed to each shaft, and said shaft is provided with a milled head 15, projecting from the side of the casing and by means of which the roll 11 may be rotated, while the roll 10 is loosely mounted upon said shaft and has an extension 16 projecting through the end of the casing and provided with a milled head 17, whereby said roll 10 may be rotated independently of the roll 11. A washer 18 is interposed between the adjacent ends of the rolls 10 and 11.

19 denote toothed wheels secured to the ends of each roll.

20 denotes a bar arranged within the casing and extending longitudinally the length thereof near the upper end of the casing and provided with vertical slots 21, through which pass set-screws 22 into fixed cleats 23, secured in the upper corners of the casing, by means of which said bar may be adjusted vertically.

24 denotes endless belts, tapes, or ribbons passed around said bar and said rolls and each having printed or otherwise inscribed thereon suitable data which is adapted to be displayed through the vision-openings D and E in the front of the casing in the usual manner by rotating the particular roll or rolls bearing the inscription which it is desired to display.

To prevent malicious or evilly-disposed persons from operating the rolls to change the data, I provide a novel form of lock, which consists of an ordinary lock-casing 25, secured within the casing and having a common bolt 26, actuated by a key which is inserted through a keyhole 27 in the face of the casing to lock the movable lock-bar 28 into engagement with the toothed wheels carried by the different rolls. This bar 28 is provided

with vertically-disposed slots 29, through which pass set-screws 30, which are engaged with studs 31, projecting rearwardly from the inner side of the front piece of the casing and have a slight vertical movement. Springs 32 are secured to the casing and exert their energy to hold the dogs 33 of said lock-bar out of engagement with the toothed wheels.

34 denotes an upwardly and inwardly projecting lug located in the path of movement of the bolt, so that when said bolt is shot said bar will be forced downwardly with its dog into engagement with the toothed wheels, thus locking said wheels against rotation and rendering it impossible for a person not provided with a key to the lock from resetting the indicator.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and advantages of my invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an indicator of the character described, the combination with a casing having a vision-opening, of a suitably-inscribed ribbon adapted to be displayed through said opening, a roll for moving said ribbon across the opening, means for operating said roll from without the casing, a toothed wheel secured to said roll, a lock-bar mounted within said casing, and a lock mounted within said casing and operated from without, said lock-bar being in the path of movement of the bolt of said lock whereby when said bolt is shot, the lock-bar will be forced into the toothed wheel to lock said wheel and its roll against movement, and a spring for retracting said lock-bar from engagement with the toothed wheel, substantially as set forth.

2. In an indicator of the character described, the combination with a casing having vision-openings, of a shaft journaled in said casing and having its end projecting outwardly therefrom, a set of rolls mounted on said shaft, one fixed to said shaft and the other loose thereon, the loose roll having an extension projecting on the outside of the casing, a bar secured in the casing near its upper end, suitably-inscribed ribbons or tapes to engage said bar and said rolls and adapted to be displayed through the vision-openings in the casing, toothed wheels secured to said rolls, a lock located within said casing, and a spring-actuated lock-bar arranged in the path of movement of the bolt of said lock whereby when said bolt is shot the lock-bar will be engaged with the toothed wheels to prevent the rotation of the rolls, and when said bolt is retracted the lock-bar will be retracted to release said rolls to permit of their rotation, substantially as set forth.

3. In an indicator of the character described, the combination with a casing having vision-openings, of a shaft journaled in said casing and having its end projecting outwardly therefrom, a set of rolls mounted on said shaft, one fixed to said shaft and the other loose thereon, the loose roll having an extension projecting on the outside of the casing, a vertically-adjustable bar secured in the casing near its upper end, suitably-inscribed ribbons or tapes to engage said bar and said rolls and adapted to be displayed through the vision-openings in the casing, toothed wheels secured to said rolls, a lock located within said casing, and a spring-actuated lock-bar arranged in the path of movement of the bolt of said lock, whereby when said bolt is shot, the lock-bar will be engaged with the toothed wheels to prevent the rotation of the rolls, and when said bolt is retracted, the lock-bar will be retracted to release said rolls to permit of their rotation, substantially as set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ROSEBERT A. WOOD.

Witnesses:
W. P. WOOD,
JNO. B. HARBER.