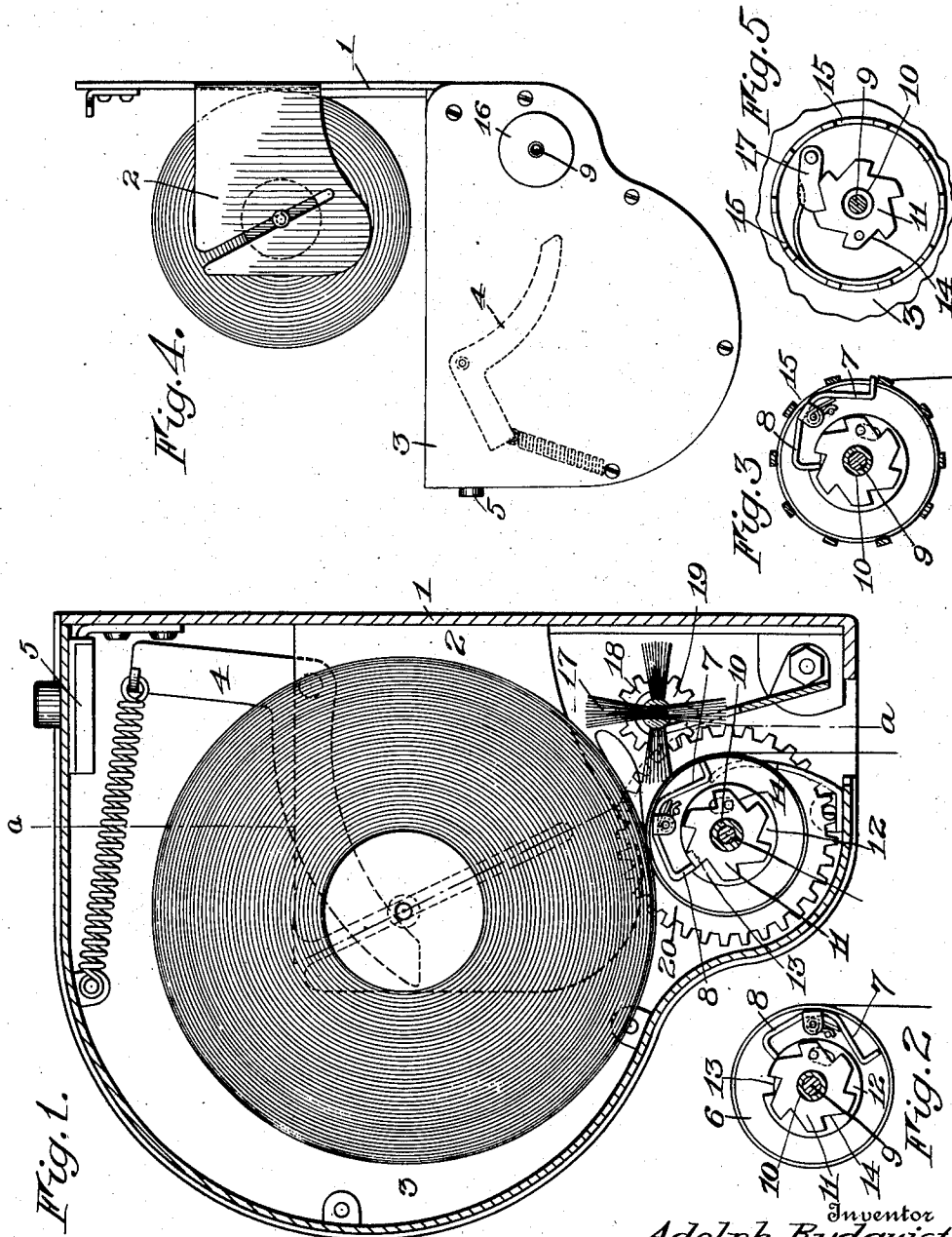


A. RYDQUIST.
PAPER DISPENSING APPARATUS.
APPLICATION FILED APR. 5, 1911.

1,025,312.

Patented May 7, 1912.

2 SHEETS-SHEET 1.



Witnesses

Halter B. Payne
H. C. Stonebraker.

By

Adolph Rydquist
Church & Dick

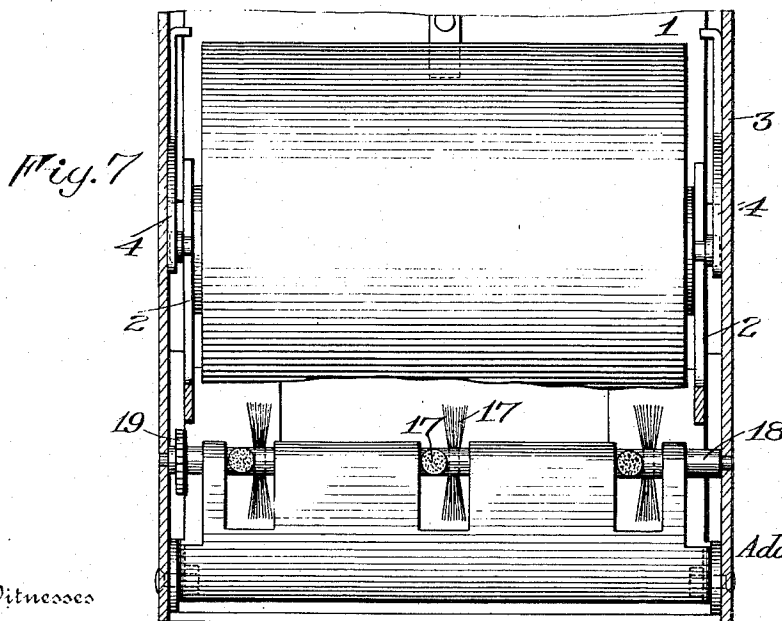
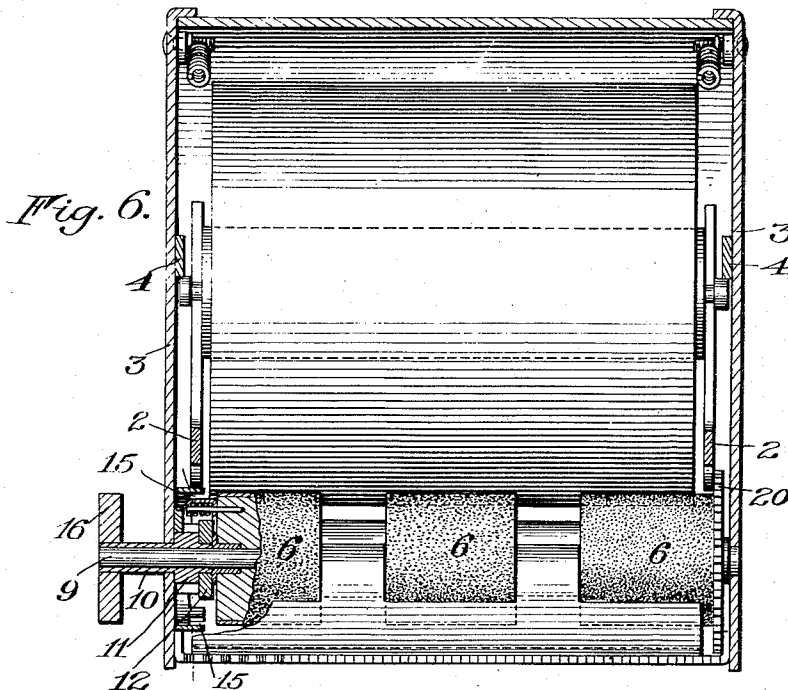
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Inventor
Adolph Rydquist

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UNITED STATES PATENT OFFICE.

ADOLPH RYDQUIST, OF ROCHESTER, NEW YORK.

PAPER-DISPENSING APPARATUS.

1,025,312.

Specification of Letters Patent.

Patented May 7, 1912.

Application filed April 5, 1911. Serial No. 619,152.

To all whom it may concern:

Be it known that I, ADOLPH RYDQUIST, of Rochester, county of Monroe, and State of New York, have invented certain new and useful Improvements in Paper-Dispensing Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

The present invention relates to a paper dispensing apparatus, and has for its object to provide a mechanism for permitting removal of paper in small quantities from a continuous roll, the movement of the paper being controlled by a feeding device which is normally locked against movement, the feeding device being adapted to be unlocked by a manual operation and to feed a limited amount of paper, determined by the relocking of the feeding device.

To these and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings: Figure 1 is a vertical sectional view of an apparatus, illustrating one embodiment of the invention, and showing the feeding roll released; Fig. 2 is a detail view showing the position of the parts when the feeding roll has been partially rotated by removal of the paper; Fig. 3 is a detail view showing the position of the parts with the feeding roll locked against movement; Fig. 4 is a view in side elevation of the casing with the cover open; Fig. 5 is a detail view of the locking means for preventing reverse movement of the feeding roll; Fig. 6 is a sectional view on the line *a-a* of Fig. 1 with parts in elevation, and Fig. 7 is a similar sectional view, looking in the opposite direction.

Similar reference numerals throughout the several figures indicate the same parts.

The invention, as herein embodied, is illustrated in connection with a casing comprising a base 1 having outwardly extending slotted brackets 2 which support the paper-containing roll. Hinged to the base 1 is the cover 3 which is provided with spring-controlled pivoted arms 4, adapted to engage the ends of the paper-containing roll shaft and serving to force the paper

downwardly into engagement with the feeding roll.

5 is a lock which may be of any convenient design, adapted to hold the cover in engagement with the base 1.

The feeding device of the present embodiment comprises a roll 6 which carries at one end a locking member, shown as a spring-controlled lever having an outwardly extending arm 7 and an inwardly extending arm 8, the spring acting to normally force the arm 7 outwardly. The feeding roll is loosely mounted on a shaft 9 on which is also journaled loosely a sleeve 10 to which is fixed a cam wheel 11 which constitutes the releasing means. Arranged loosely on the sleeve 10 is the locking disk 12 which has a pin and slot connection with the cam wheel 11 and is provided with a recess 13 arranged between the innermost and outermost points of the continuous cam-shaped periphery of the disk. The cam wheel 11 is provided with a plurality of cam surfaces 14, which operate, when the cam wheel is rotated, to move the arm 8 of the locking lever out of engagement with the recess 13 of the locking disk. Arranged circumferentially of the feeding roll and in proximity to the end thereof is a ring 15 which is cut-away to form a plurality of recesses arranged to receive the outwardly extending arm 7 of the locking lever, and thereby prevent movement of the feeding roll.

In operation, assuming the parts to be in the position shown in Fig. 3, the feeding roll being locked, the hand piece 16, secured to the sleeve 10, is turned, causing a rotation of the cam wheel 11, whereby one of the cam surfaces 14 engages the inwardly extending arm 8 and moves the locking lever out of engagement with the recess 13 in the locking disk, also removing the arm 7 from locking engagement with the respective locking recess in ring 15. The feeding roll is then free to rotate, and upon the initial withdrawal of the paper, the frictional engagement of the arm 8 with locking disk 12 causes the latter to move relatively to the cam wheel 11 until it assumes a position such as shown in Fig. 2. The paper will be free to feed until the feeding roll moves around to a point where the arm 8 again drops into the recess 13, and locks, as in Fig. 3. It is only necessary that the hand piece be operated sufficiently to remove the arm 8 from the recess 13, but if it is turned farther,

the feeding roll will be actuated by engagement of the locking disk 12 with the arm 8, as shown in Fig. 1, and the feeding roll is permitted a complete revolution from the point where the hand piece is released.

In order to prevent reverse movement of the feeding mechanism, a spring-controlled dog 17 is provided, which engages with the recesses of cam wheel 11. To the end that the paper may not be returned about the containing-roll there is provided a series of rotary brushes 17 which are arranged on a shaft 18, revolving in the opposite direction to feeding roll 6 and operated therefrom by means of gears 19 and 20 mounted, respectively, on the shaft 18 and feeding roll 6.

I claim as my invention:

1. In a paper dispensing apparatus, the combination with a paper feeding device, of an automatically operated locking member carried by the feeding device and movable relatively thereto, and manually controlled releasing means for actuating the locking member to permit movement of the feeding device.

2. In a paper dispensing apparatus, the combination with a paper feeding device, of an automatically operated locking member carried by the feeding device and movable relatively thereto, and manually controlled releasing means adapted to move with and independently of the feeding device.

3. In a paper dispensing apparatus, the combination with a paper feeding roll, a stationary stop arranged in proximity to the feeding roll, an automatically operated locking member carried by the feeding roll and movable relatively thereto to engage said stationary stop, and manually controlled releasing means for moving the locking member out of engagement with the stationary stop to permit movement of the feeding roll.

4. In a paper dispensing apparatus, the combination with a paper feeding roll, a stationary stop arranged in proximity to the feeding roll, a spring-controlled locking lever pivoted to the feeding roll, an arm car-

ried by the locking lever arranged to engage the stationary stop, an additional arm carried by the locking lever, a manually controlled cam wheel in engagement with the last mentioned arm, and a recessed disk having limited movement relatively to the cam wheel.

5. In a paper dispensing apparatus, the combination with a paper feeding roll, a stationary stop arranged in proximity to the feeding roll, a spring-controlled locking lever pivoted to the feeding roll, an arm carried by the locking lever arranged to engage the stationary stop, an additional arm carried by the locking lever, and manually controlled releasing means in engagement with the last mentioned arm.

6. In a paper dispensing apparatus, the combination with a paper feeding roll, of a locking member carried by the feeding roll and movable relatively thereto, and manually controlled releasing means arranged for cooperation with the locking member to permit a limited movement of the feeding roll.

7. In a paper dispensing apparatus, the combination with a paper feeding roll, of a locking member carried by the feeding roll and movable relatively thereto, and a manually controlled releasing member adapted to be operatively connected with the locking member, said releasing member being arranged for movement with and independently of the feeding roll.

8. In a paper dispensing apparatus, the combination with the base of a casing, of a cover hinged to the base, brackets carried by the base for supporting a roll of paper, a feeding roll mounted in the cover and adapted to engage the roll of paper when the cover is closed, the feeding roll being normally locked against movement, and means supported by the cover for releasing the feeding roll and permitting a limited movement of the same.

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Witnesses:

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