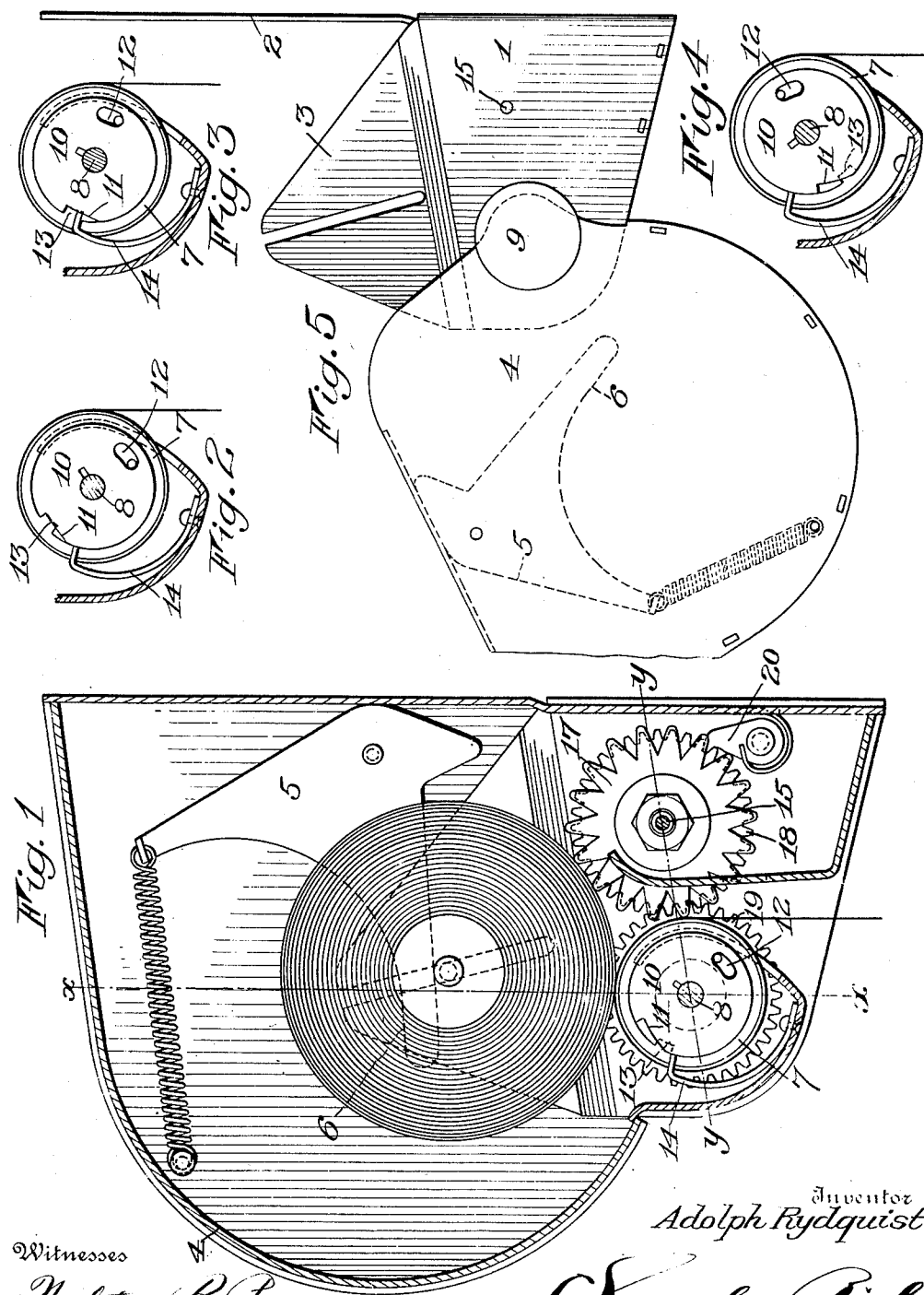


A. RYDQUIST.
PAPER DISPENSING APPARATUS.
APPLICATION FILED APR. 5, 1911.

Patented May 14, 1912.

2 SHEETS—SHEET 1.

1,026,128.



Witnesses

Malter B. Payne
H. E. Stonebraker.

By

Inventor
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Church & Chick

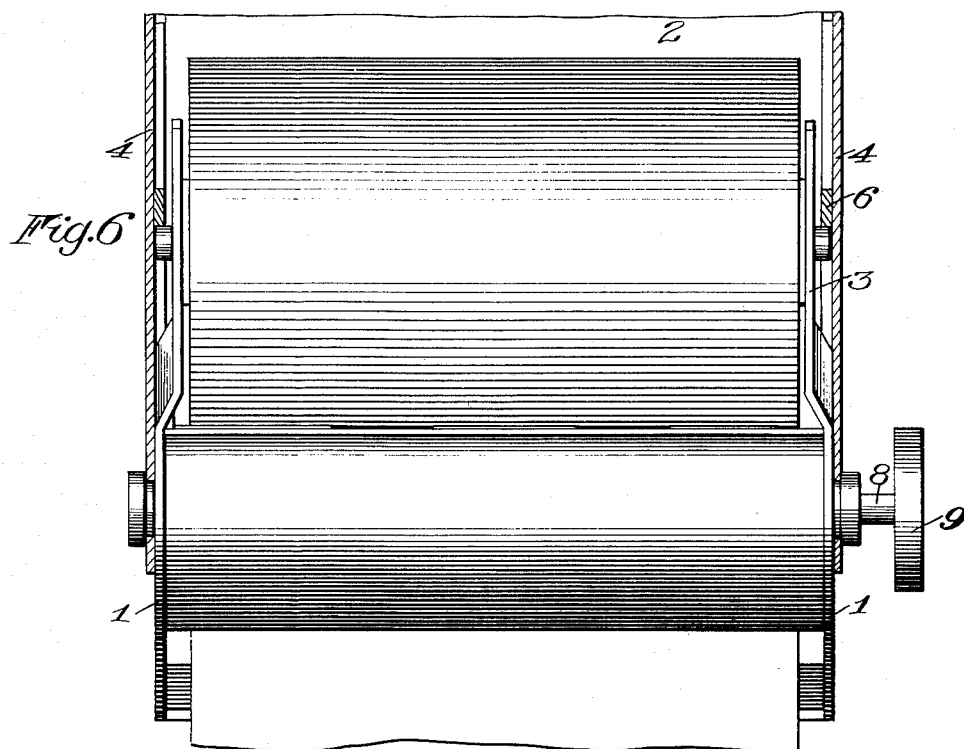
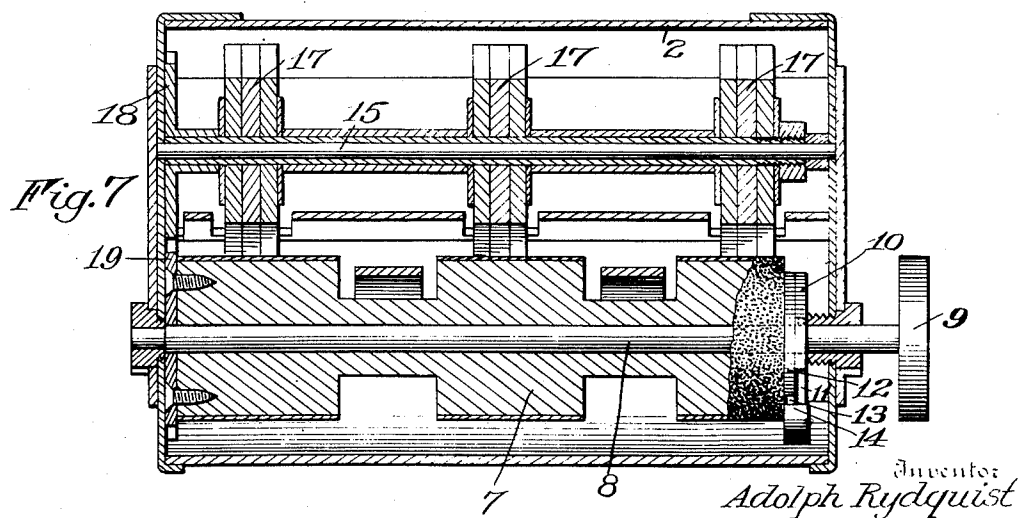
his Attorneys

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2 SHEETS—SHEET 2.



Witnesses

Halter B. Payne
H. E. Stonebraker.

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UNITED STATES PATENT OFFICE.

ADOLPH RYDQUIST, OF ROCHESTER, NEW YORK.

PAPER-DISPENSING APPARATUS.

1,026,128.

Specification of Letters Patent.

Patented May 14, 1912.

Application filed April 5, 1911. Serial No. 619,153.

To all whom it may concern:

Be it known that I, ADOLPH RYDQUIST, of Rochester, in the 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 from a continuous roll under the control of a feeding device which is normally locked, and adapted to be unlocked by a manual operation to permit withdrawal of the paper until the feeding device is again locked when it has moved a definite distance, so that a definite amount of paper is released at each manual operation, corresponding to the extent of movement 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 section of an apparatus, illustrating one embodiment of the invention, and showing the position of the paper feeding roll, immediately after it is released; Fig. 2 is a detail view showing the position of the parts, when the feeding roll has been partially rotated; Fig. 3 is a detail view showing the position of the parts upon completion of the rotation of the feeding roll, at which time the latter is again locked; Fig. 4 is a detail view showing a possible position of the parts when the manual operating member is given nearly a complete revolution; Fig. 5 is a view in side elevation of the casing, showing the hinged cover open; Fig. 6 is a sectional view with parts in elevation, on the line $x-x$ of Fig. 1, and Fig. 7 is a sectional view on the line $y-y$ of Fig. 1.

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

The present embodiment of the invention, is illustrated as applied to a casing comprising a body portion 1 having an up-standing back portion 2 and slotted sides 3 arranged

to support the paper roll. Hingedly mounted on the body portion 1 is the cover 4, to the sides of which are pivoted the spring-controlled members 5 having arms 6 arranged to engage the ends of the paper roll supporting shaft so as to force the paper normally into engagement with the feeding roll.

The feeding device, in the present embodiment, comprises a roll 7 which is rotatably mounted on the shaft 8, the latter having a hand piece 9 fixed to one end outside the casing. The releasing means preferably consists of a cam wheel 10, fast on the shaft 8, and having a cam recess 11, a pin and slot connection serving to unite the cam wheel with a locking disk 12 attached to the end of the feeding roll 7, the disk being provided with a locking recess 13.

Attached to the casing is a locking member, which in the present embodiment, comprises a spring locking arm 14 engaging the edges of the locking disk and of the cam wheel, the arrangement of the parts being such that in normal position, as shown in Fig. 3, the locking member 14 engages recess 13 and the deepest portion of the cam recess 11, thereby holding the feeding roll against movement.

When it is desired to operate the device, to permit removal of a portion of the paper, the hand piece 9 is turned a slight distance, causing the cam wheel 10 to be rotated, whereby the cam recess 11 engages the locking arm 14 and moves the latter outwardly from engagement with the recess 13, thus permitting movement of the feeding roll. The paper may then be withdrawn until the feeding roll has made one complete revolution, whereupon the locking arm again engages the recess 13 and locks the parts. It is to be noted that when tension is applied to the paper in withdrawing the same, the feeding roll will move a slight distance while the cam wheel remains stationary, such distance being determined by the length of the slot within which the connecting pin moves, this operation being illustrated by the transition of the parts from the position shown in Fig. 1 to that shown in Fig. 2. Under any conditions, however, the feeding roll is permitted only one complete revolution, unless the hand piece is turned for more than an entire revolution, and if, for instance, the hand piece is operated to move the cam wheel for almost an entire revolu-

tion, as in the position shown in Fig. 4, subsequent drawing on the paper will move the locking disk 12 relatively to cam wheel 10 so as to enable locking of the feeding roll 5 when the recess 13 reaches the locking arm 14, at which instant the parts assume the position shown in Fig. 3.

In order to obviate any return movement of the paper around the containing roll, 10 there is provided a shaft 15 which carries suitable yieldably engaging elements 17, such as felt disks or the like, and is rotated in an opposite direction to the feeding roll 7 through the instrumentality of gears 18 15 and 19 mounted, respectively, on the shaft 15 and feeding roll 7. To prevent reverse movement of the parts, there is provided a spring-controlled locking dog 20, which engages the gear 18.

20 I claim as my invention:

1. In a paper dispensing apparatus, the combination with a paper feeding roll, of a movable locking member arranged in 25 in engagement therewith, and a manually controlled cam wheel arranged to engage the

locking member and having a limited movement relatively to the feeding roll.

2. In a paper dispensing apparatus, the combination with a paper feeding roll, of a 30 locking member normally in engagement with the feeding roll, and a manually controlled member carried by the feeding roll and adapted to move the locking member out of engagement therewith, the locking 35 member again moving into locking engagement with the feeding roll upon a limited movement of the latter.

3. In a paper dispensing apparatus, the combination with a paper feeding roll, of a 40 locking member normally in engagement with the feeding roll, and manually controlled releasing means carried by the feeding roll and having a limited movement independently of the feeding roll for moving 45 the locking member out of engagement therewith.

ADOLPH RYDQUIST.

Witnesses:

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NELSON H. COPP.