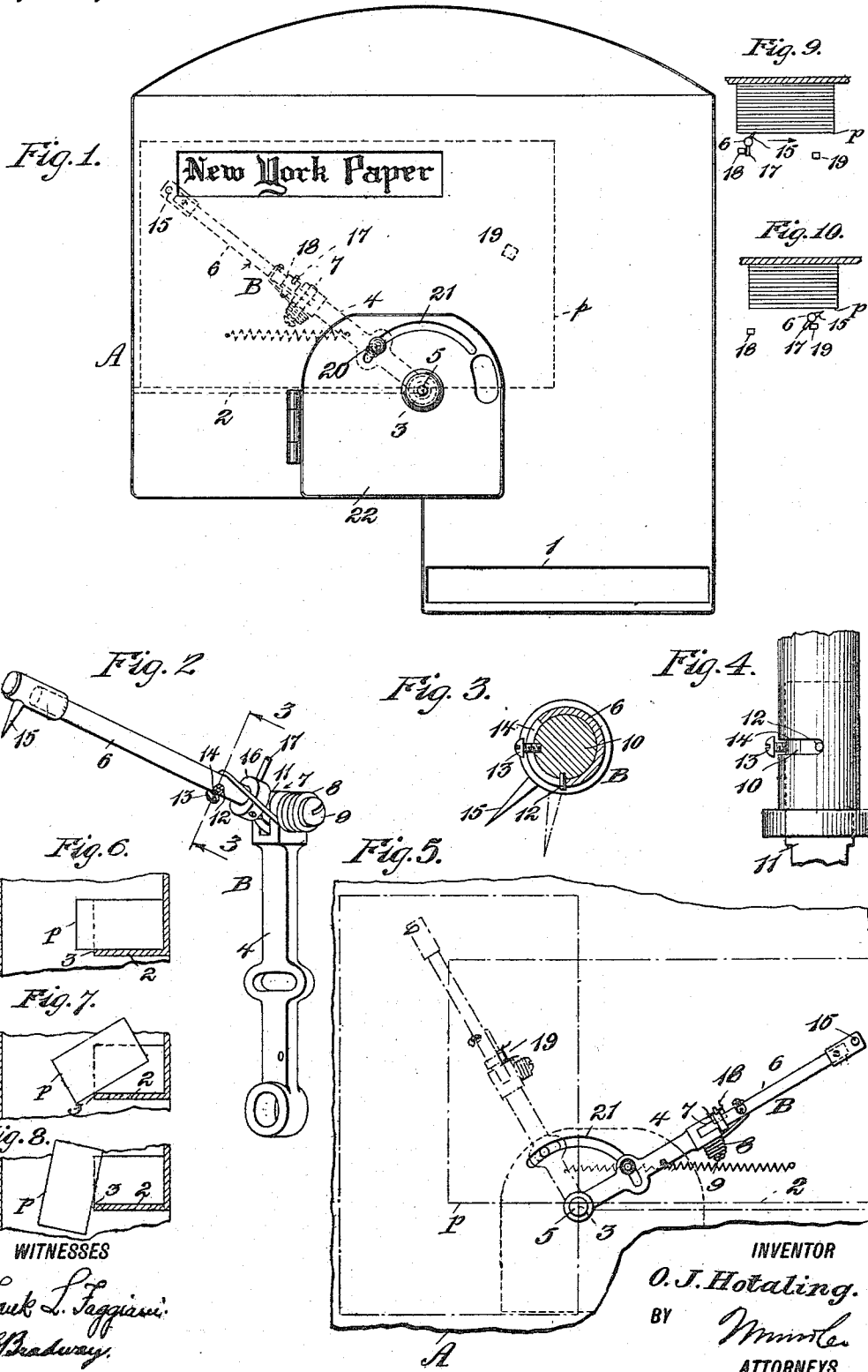


O. J. HOTALING.
 NEWSPAPER VENDING MACHINE.
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1,285,187.

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WITNESSES
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UNITED STATES PATENT OFFICE.

OMAR J. HOTALING, OF LYONS FARMS, NEW JERSEY, ASSIGNOR TO THE AMERICAN NEWSVENDER CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

NEWSPAPER-VENDING MACHINE.

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To all whom it may concern:

Be it known that I, OMAR J. HOTALING, a citizen of the United States, and a resident of Lyons Farms, in the county of Union and State of New Jersey, have invented a new and Improved Newspaper-Vending Machine, of which the following is a full, clear, and exact description.

This invention relates to a newspaper vending machine and has to deal more particularly with the dispensing device, whereby the movement of a handle will cause a paper to be discharged.

The invention has for its general objects to improve and simplify the construction and operation of apparatus of this character so as to be reliable and efficient in use, comparatively simple and inexpensive to manufacture, and so designed that the newspapers will be dispensed one at a time without danger of interference or clogging.

A more specific object of the invention is the provision of novel means for supporting a pile of papers on their edge with their ends overhanging or projecting beyond their support, whereby a simple, novel and effective dispensing element can engage the outermost paper and swing the same off the edge of the support, so that it will drop out of the dispensing opening of the cabinet.

A more specific object of the invention is the provision of a novel dispensing member which swings along the side of the stack of papers, said member having a sharp tooth which engages the outermost paper during the dispensing stroke and which wipes along the next paper during the return stroke, there being means for rocking the member so as to throw the tooth into and out of engaging or gripping position.

With such objects in view, and others which will appear as the description proceeds, the invention comprises various novel features of construction and arrangement of parts which will be set forth with particularity in the following description and claims appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention and wherein similar characters of reference indicate corresponding parts in all the views,

Figure 1 is a side view of a newspaper dispensing machine;

Fig. 2 is a perspective view of the dispensing arm;

Fig. 3 is a detail sectional view on the line 3—3, Fig. 2;

Fig. 4 is a side view showing the rocking joint between the two sections of the dispensing arm;

Fig. 5 is a fragmentary view showing the inner face of the arm and the relation of the same to the papers in normal position by full lines and dispensing position in dotted lines;

Figs. 6 to 8 inclusive are diagrammatic views showing the manner in which a paper is removed from its support by the dispensing arm; and

Figs. 9 and 10 are diagrammatic views showing the relation of the tooth of the dispensing element at the beginning of the dispensing stroke and at the end thereof.

Referring to the drawing, A designates a cabinet of any desired construction which has a dispensing opening 1 at its bottom through which the papers are dispensed. In the cabinet is a horizontal shelf 2 on which rests a pile of papers, each paper lying on its edge so that its face will be in a vertical plane. The papers project slightly beyond the edge 3 of the shelf so as to tilt thereon in going through the dispensing movement, as clearly shown in Figs. 6 to 8 inclusive. In dropping off the shelf the papers pass downwardly through the casing to the dispensing opening 1. The means for dispensing the outermost paper comprises a swinging arm B constructed as shown in Fig. 2. This arm is composed of a crank section 4 mounted on a pivot 5 which is coincident or in horizontal alinement with the edge 3 of the shelf on which the paper tilts or swings in discharging. The section 4 of the arm is connected with an upper section 6 by a knuckle joint 7, there being a spring 8 on the pintle or pin 9 of the knuckle joint, which spring engages the section 6 so as to urge the latter toward the face of the stack or pile of papers. The member 6 of the arm B has a hollow lower end which fits over a stud 10 on the member 11 of the

knuckle joint, the rocking movement being limited by pins 12 and 13 on the stud 10, which pins engage in a circumferential slot 14 in the member 6. This rocking movement is employed for the purpose of throwing the dispensing tooth 15 of the arm B into and out of operative position. On the bottom of the member 6 is a collar 16 which has a finger 17 adapted to engage fixed stops 18 and 19 at the limit of the return and forward movements of the arm B, the said stops being arranged on the wall of the cabinet, as shown in Fig. 5. The arm B is suitably connected with a handle 20 which projects out of a slot 21 in the coin-controlled mechanism chamber 22, which mechanism is not herein disclosed, as it forms no part of the present invention. As the handle 20 is moved to the right, Fig. 1, the arm B moves with it so that the point 15 will engage the outermost paper *p*, as shown in Fig. 9, and cause the said paper to tilt on the edge 3 of the shelf 2, as shown in Figs. 6 to 8 inclusive, and when the arm B nears the end of its dispensing stroke the finger 17 strikes the stop 19, as shown in Fig. 10, whereby the tooth 15 is released from the paper and the latter drops to the discharge opening 1 of the cabinet. The arm B returns while the tooth 15 wipes along the face of the next paper, and when the end of the return movement is reached, the finger 17 strikes the stop 18, whereby the tooth is caused to bite into the said paper, as shown in Fig. 9, so as to cause the latter to be discharged when the handle 20 is again operated after a coin has been deposited. The light spring 8 causes the tooth-carrying member 6 to swing over toward the diminishing size of the stack of papers so that the tooth 15 will always be in coöperative relation with the outermost paper.

From the foregoing description taken in connection with the accompanying drawing, the advantages of the construction and method of operation will be readily understood by those skilled in the art to which the invention appertains, and while I have described the principle of operation, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device

shown is merely illustrative and that such changes may be made when desired as fall within the scope of the appended claims. 55

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a newspaper vending machine, the combination of a cabinet having a dispensing opening, a horizontal shelf for supporting a plurality of newspapers on their edges, and a swinging dispensing element pivoted on a center coincident with the edge of the shelf, whereby a paper tilts off the said edge of the shelf as a fulcrum and drops to the dispensing opening of the cabinet. 60 65

2. A newspaper vending machine comprising a cabinet having a dispensing opening, a shelf supported above the opening and on which is supported a plurality of papers resting on their edges, and means for engaging the outermost paper to cause the same to tilt on the edge of the shelf as a center and finally drop off the shelf to the said opening. 70 75

3. In a newspaper vending machine, the combination of a cabinet having a discharge outlet, a shelf on which is supported a plurality of papers resting on their edges, an arm swinging in a vertical plane and having a rocking tooth-carrying member spring-pressed toward the papers, and means for automatically rocking the member to move the tooth into and out of engagement with the papers. 80 85

4. In a newspaper vending machine, the combination of a cabinet having a dispensing outlet, a shelf on which is supported a plurality of papers resting on their edges, a swinging arm mounted to swing on a center coincident with the edge of the shelf, said arm being composed of two sections hinged together, a tooth on the outermost section, said tooth-carrying section being mounted to have a limited rocking movement, a finger on the said tooth-carrying section, and stops with which the finger engages, whereby the said tooth-carrying section is rocked at the ends of the swinging movement of the arm to engage and disengage the outermost paper on the shelf. 90 95 100

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