

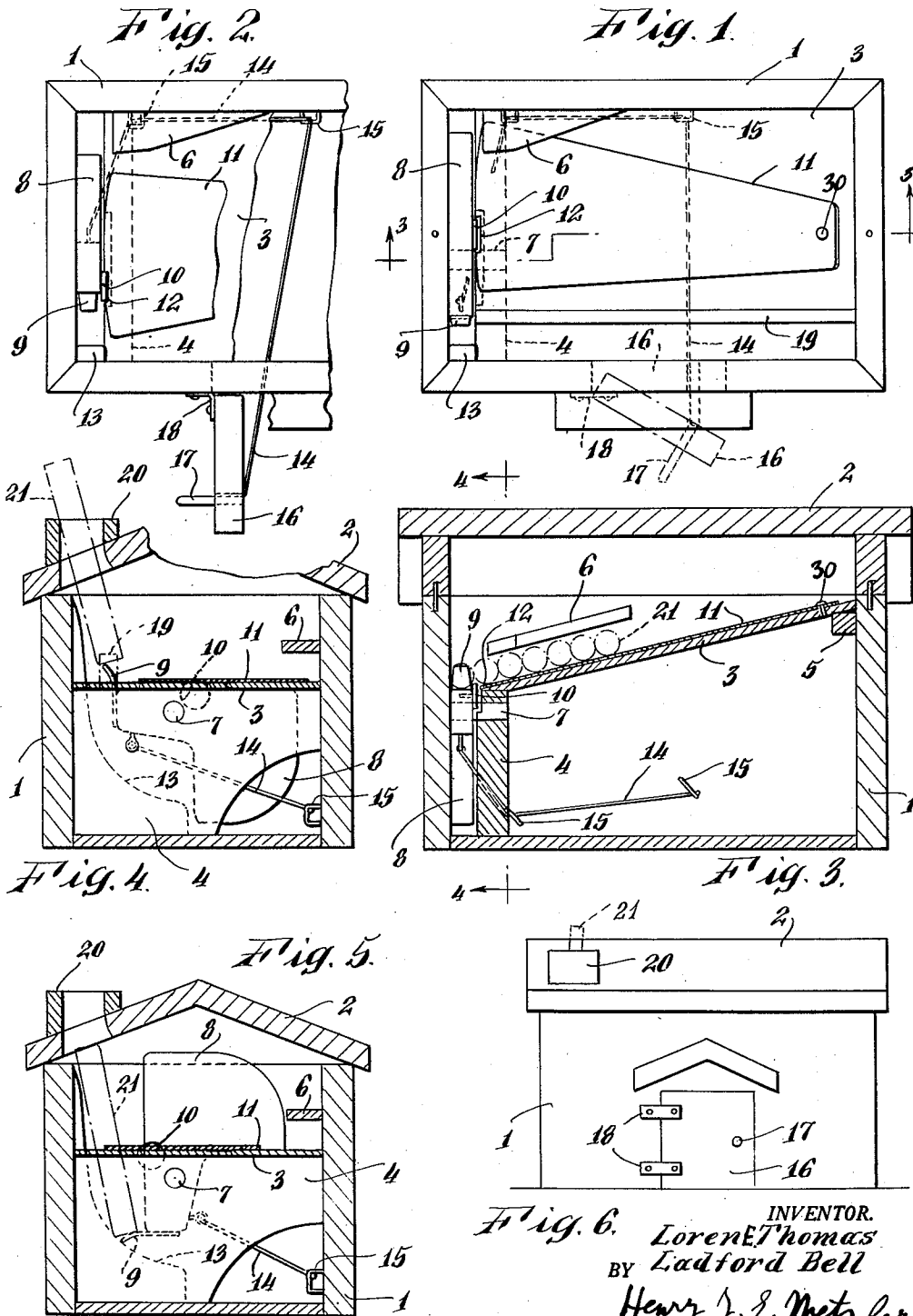
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L. E. THOMAS ET AL

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DISPENSER FOR CIGARETTES AND THE LIKE

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INVENTOR.
Loren E. Thomas
BY Ladford Bell
Henry J. Metzler
Att.

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DISPENSER FOR CIGARETTES AND
THE LIKELoren E. Thomas and Ladford Bell,
Port Huron, Mich.

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2 Claims. (Cl. 312-75)

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Our invention relates to improvements in dispensing apparatus for cigarettes and similar articles, such as chewing gum, candies, matches, and the like.

It relates particularly to an apparatus by which cigarettes or the like, contained in a casing may be removed therefrom one at a time and held in an easily accessible dispensing position.

One of the objects of our invention is the provision of novel means of very simplified construction for removing the cigarettes and the like from the casing and elevating them, one at a time, to the dispensing position, or for ejecting them from the casing.

A further object of our invention is the provision of a novel apparatus of the kind described, which is simple, cheap to make, strong, durable, not likely to get out of order, and which is efficient in its operation.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claim, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

In the accompanying drawings the preferred forms of the invention have been shown.

In said drawings:

Figure 1 is a top plan view of a preferred embodiment of our invention as it appears after the removal of its top cover, showing its movable parts in one end position;

Fig. 2 is a fractional top plan view as Fig. 1; showing the movable parts of the device in another end position;

Fig. 3 is a sectional view on the line 3-3 of Fig. 1;

Fig. 4 is a sectional view on the line 4-4 of Fig. 3, showing the removable parts of the device as they appear at the end of the dispensing movement;

Fig. 5 is a cross-sectional view as Fig. 4 showing the movable parts of the device as they appear at the beginning of the dispensing movement; and

Fig. 6 is a front elevation.

Similar reference characters refer to similar parts throughout the several views.

In the drawing the numeral 1 denotes a casing, which in the instance shown has the shape of a toy cabin, but which may be of any other shape or design, and which has a removable top

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cover 2. The latter is provided with a perforation in one of its corner portions, and in the present instance a chimney 20 is extended from said perforation. An intermediate wall 4 is provided within the casing 1 beneath said perforation and is parallel to, and slightly spaced from, one of its side walls but of a lesser height than the latter and extending upwardly from the bottom of the casing 1. An inclined member 3 extending through the major upper portion of said casing from that section of the top which is opposite said perforation toward the wall 4 rests upon the latter with one end and upon a bar 5 with its other end. A wedge-shaped guide member 6 preferably is attached to one of the walls of casing 1 which is at right angles to the wall 4. The member 6 is parallel to the member 3 and is in spaced relation thereto.

A pin 7 extends laterally from the upper portion of the wall 4 through a cam member or an ejector plate 8, which is pivotable thereon and which is located between the wall 4 and that wall of the casing 1 which is closest to, and parallel to, the wall 4. The plate 8 is P-shaped in the instance shown, and the pin 7 extends through its narrow foot portion beyond its center of gravity, so that the plate 8 has a tendency to assume the position shown in Figs. 1, 3, and 4. In this position the long, straight edge of the plate 8 is substantially flush with the upper edge of the wall 4. A blade 9 is secured to the narrow outer extremity of the foot portion of the P-shaped ejector plate 8 and has an outwardly curved end portion which protrudes beyond said foot portion. A knob 10 extends laterally from the long, straight edge portion of the plate 8 into a recess 12 of a fan-like agitator plate 11, which is slidable upon the member 3 and is pivoted to the highest portion of the latter at 30. A downwardly diverging curved guide plate 13 is interposed between the wall 4 and that wall of the casing 1 which is closest to, and parallel to, the wall 4. A string 14 has one of its extremities secured to the foot portion of said P-shaped ejector plate while its other extremity is secured to a door that is hinged at 18 to an open portion in a side wall of the casing 1. The string 14 is extended through guides 15 within the casing 1 at a wall of the latter which is opposite the door 16. The latter preferably is provided with a handle 17, and one of the lower corner portions of the wall 4 is removed (Figs. 4 and 5) for allowing the string 14 to pass there-through.

Cigarettes 21 or any other articles adapted for dispensing by means of this device are placed

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upon the plate 11 as may be seen in Fig. 3. When the door 16 is closed, the parts 8, 9, 10 and 11 are in the respective positions shown in Fig. 1, 3 and 4. In this position the long, straight edge of the P-shaped ejector plate 8 is horizontal and one of the cigarettes 21 rests thereupon. Upon opening the door 16, the string 14 pulls the plate 8 into an upright position. In this position (Figs. 2 and 5) the cigarette 21 is in a substantially upright position, supported by the blade 9, and rests laterally against the curved guide plate 13. When the handle 17 of the door 16 is released, the plate 8 is moved, by means of gravity back to its position of Figs. 1, 3 and 4, and the door 16 is closed by the pulling action of the string 14. Thereby the cigarette 21 is pushed through the aperture in the top 2, so that it extends beyond the chimney 21, as indicated in dash-and-dotted lines in Fig. 4. When the plate 8 has reached its end position of Figs. 1, 3 and 4, the cigarettes 21 slide down on the plate 11, so that the next cigarette rests upon the long, straight edge of the P-shaped ejector plate 8. The guide member 6 prevents a rolling of the cigarettes 21 one upon the other, and the swinging movement of the plate 11 relative to the member 3 furthers the movement of the cigarettes 21 towards the plate 8.

While it will be obvious that the principle of our invention can be employed in connection with a casing which is shaped and designed differently from the cabin shown, it will also be obvious that the string 14 can be attached to a movable member which differs from the door 16 of the present instance.

Since certain changes may be made in the above article and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the following claims are intended to cover all of the generic and specific features of the invention herein described, and all statements of the scope of the invention which as a matter of language might be said to fall therebetween.

Having thus fully described our said invention, what we claim as new and desire to secure by Letters Patent is:

1. In a device of the character described, in combination, a casing having a removable top which is provided with a perforation in one of its corner portions and a movable member mounted in an open portion of one of the side walls of the casing, an intermediate wall which is lower than the side walls of said casing extending upwardly within the latter from its bottom beneath the perforation in its top, a pin laterally extending from said intermediate wall toward that wall of said casing which is closest to said intermediate wall, a P-shaped ejector plate between said intermediate wall and that wall of the casing which is closest to said intermediate wall being pivotable on said pin which is extended through its narrow foot portion beyond its center gravity, an inclined member extended from the upper edge of said intermediate wall towards the top of said casing, a fan-shaped agitator plate being pivoted to the higher portion of said inclined member and having a recess in its edge portion adjacent said ejector plate, a knob extending laterally from the long straight edge portion of said ejector plate and engaging the recess in said agitator plate, a blade extending laterally from the foot edge of

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said P-shaped ejector plate beyond its long straight edge, a downwardly diverging curved guide plate between said intermediate wall and that wall of the casing which is closest to said intermediate wall having its curved edge portion in juxtaposition to said blade, and a string having one of its extremities secured to the foot portion of said P-shaped ejector plate while its other extremity is secured to the movable member in one of the side walls of said casing and being extended through guiding means within said casing on a wall which is rightangularly disposed to said intermediate wall, said string being adapted for moving said ejector plate ninety degrees upon moving said movable member, thereby a cigarette resting horizontally upon an edge of said ejector plate being swung upright and toward said curved guide, so that it will be pushed along said guide through the perforation in the top of said casing when the ejector plate returns to its original position.

2. A dispenser for cigarettes and the like, in combination, a casing having a removable top which is provided with a perforation in one of its corner portions and a movable member mounted in an open portion of one of the side walls of the casing, a P-shaped cam member being pivotable on a pin extended through its narrow foot portion and being located within said casing beneath the perforation in the top of the latter, an inclined member extending through the major upper portion of said casing from that section of the top which is opposite said perforation towards said cam member, a fan-shaped agitator plate being pivoted to the higher portion of said inclined member and having a recess in its edge portion adjacent said cam member, a knob extending laterally from the long straight edge of said cam member into the recess in said agitator plate, a blade extending laterally from the foot edge of said P-shaped cam member beyond its straight edge, a downwardly diverging curved guide plate between said intermediate wall and that wall of the casing which is closest to said intermediate wall having its curved edge portion in juxtaposition to said blade, and a string having one of its extremities secured to the foot portion of said P-shaped cam member while its other extremity is secured to the movable member in one of the side walls of said casing and being extended through guiding means within said casing on a wall which is rightangularly disposed to said cam member, said string being adapted for moving said ejector plate ninety degrees upon moving said movable member, thereby a cigarette resting horizontally upon an edge of said ejector plate being swung upright and toward said curved guide, so that it will be pushed along said guide through the perforation in the top of said casing when the ejector plate returns to its original position.

LOREN E. THOMAS.
LADFORD BELL.

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