

June 26, 1956

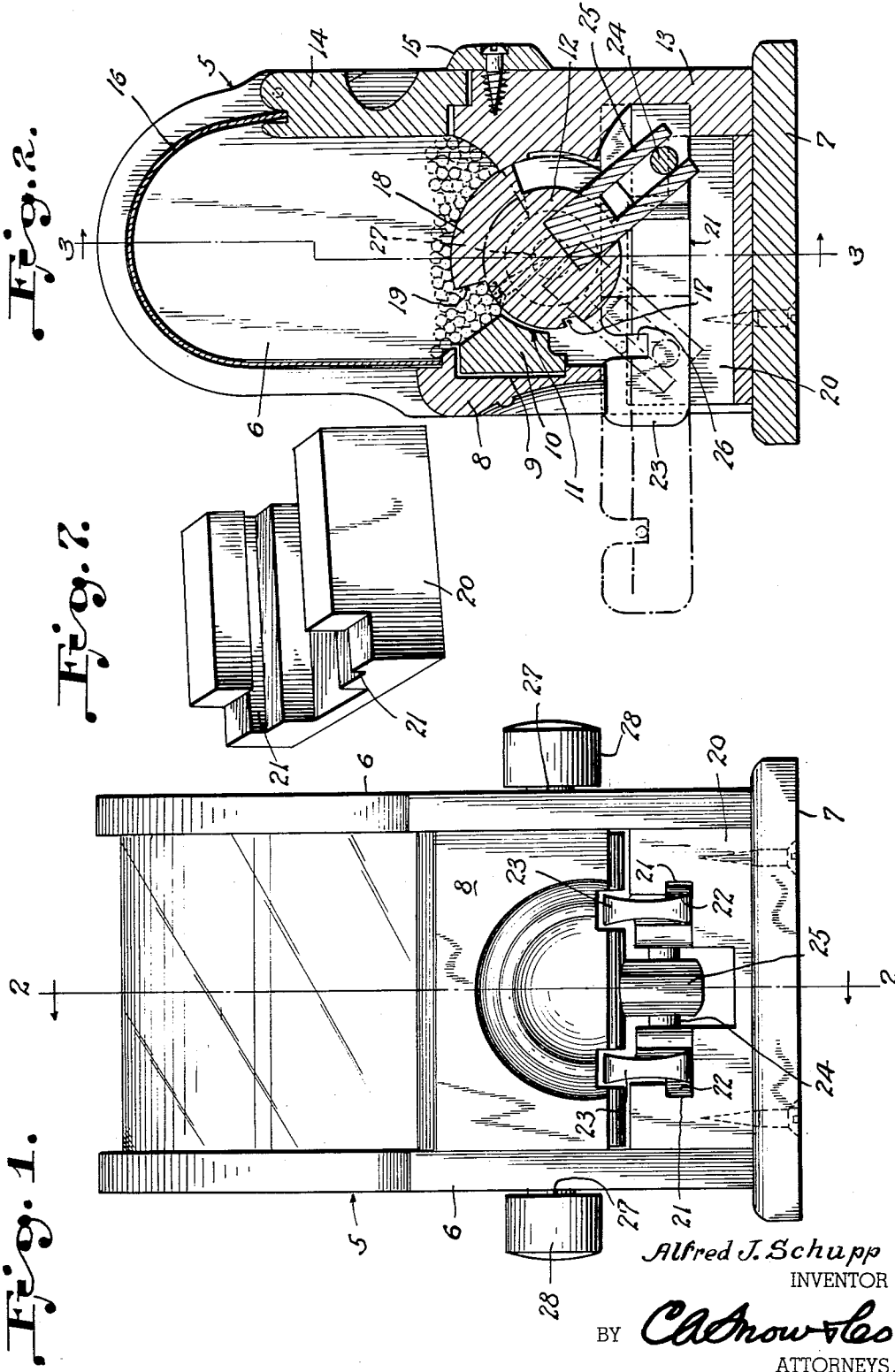
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2,752,065

DISPENSING DEVICE FOR CYLINDRICAL OBJECTS

Filed April 25, 1952

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 3.

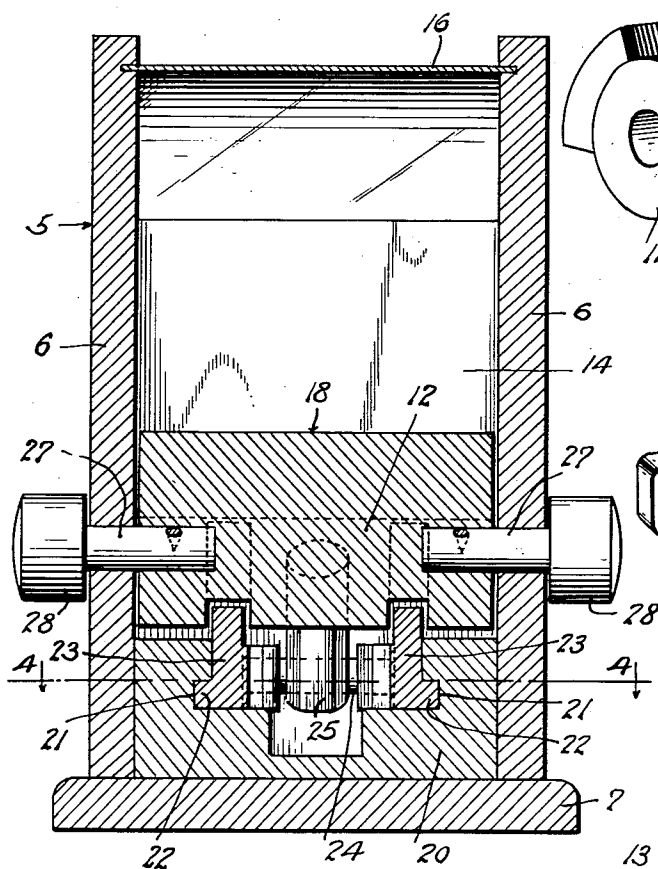


Fig. 5.

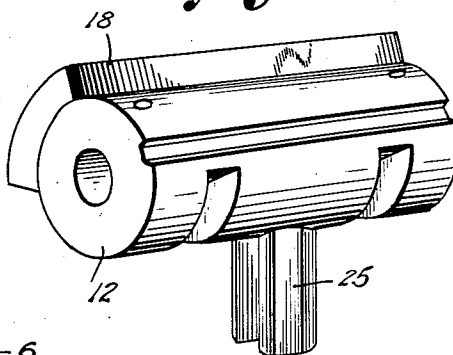
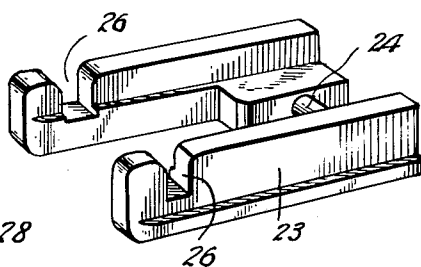
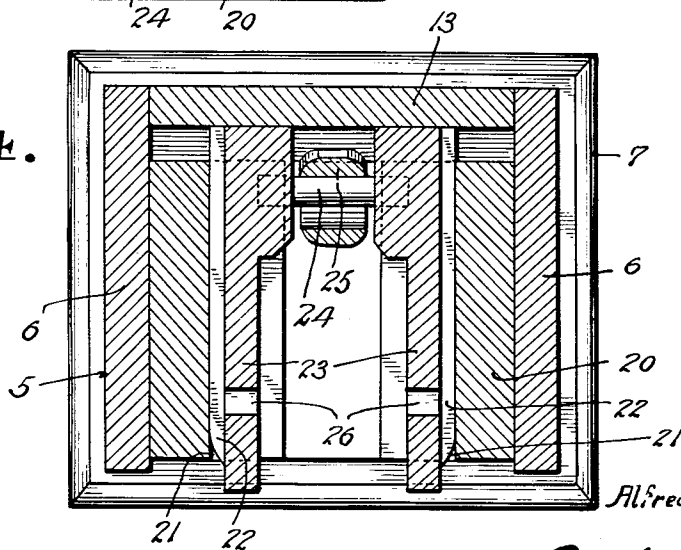


Fig. 6.

Fig. 4.



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1

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DISPENSING DEVICE FOR CYLINDRICAL OBJECTS

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1 Claim. (Cl. 221-238)

This invention relates to a cabinet or container in which cylindrical objects such as tooth-picks, matches, pencils, cigarettes or the like are contained, means being provided for delivering a single article from the container, with each operation of the delivery mechanism of the device.

An important object of the invention is to provide means to prevent the delivery of more than one article contained in the device, with each operation of the article selecting and delivering cylinder forming a part of the cabinet.

Another object of the invention is to provide a member adjustable within the throat of the container and movable with respect to the delivery cylinder of the device, thereby compensating for the variation in size of the articles delivered, to prevent wedging of the articles between the delivery cylinder and throat of the container.

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 claims, 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.

Referring to the drawings:

Figure 1 is a front elevational view of a cabinet constructed in accordance with the invention.

Fig. 2 is a sectional view taken on line 2-2 of Fig. 1.

Fig. 3 is a vertical sectional view taken on line 3-3 of Fig. 2.

Fig. 4 is a sectional view taken on line 4-4 of Fig. 3.

Fig. 5 is a perspective view of the delivery cylinder of the device.

Fig. 6 is a perspective view of the sliding delivery member.

Fig. 7 is a perspective view of the stationary guide member base.

Referring to the drawing in detail, the device comprises the housing 5 which embodies side members 6 that are secured to the base 7. The upper portion of the housing constitutes the container in which the articles to be dispensed are held. The front wall of the housing is indicated by the reference character 8, the inner surface of the front wall being formed with the recess 9 in which the block 10 is seated, the block having one edge thereof curved as at 11 to conform to the curvature of the delivery cylinder 12 that moves in proximity thereto. The lower edge of the front wall terminates short of the base 7, providing an opening through which the delivery mechanism of the device, to be hereinafter more fully described, operates.

The rear wall of the housing is indicated by the reference character 13 and is also secured to the base 7. The section 14 of the rear wall constitutes a pivoted closure which is normally held in its closed position by means of the button 15 secured to the rear wall, the closure 14 being pivotally mounted at its upper end. The length of transparent material 16 forms the top of the housing and

2

provides the continuation for the front and rear walls of the housing so that the articles contained therein may be viewed through the transparent material 16.

As clearly shown by Fig. 2 of the drawings, the rear wall of the housing has its forward edge curved to conform to the curvature of the delivery cylinder 12 so that the delivery cylinder may rotate within the housing without the delivery cylinder binding with the rear wall.

The delivery cylinder 12 is formed with the article receiving groove 17 which is formed in the periphery of the delivery cylinder and disposed longitudinally thereof. Arranged adjacent to the groove 17 is a rib 18 which presents the shoulder 19 spaced a substantial distance from the groove and so arranged with respect to the groove that when the groove is in a discharging position as shown by Fig. 2 of the drawings, the rib will be moved to a position to prevent articles contained in the housing gravitating rearwardly from the container with the result that one of the articles will fall into the groove 17 for delivery from the housing at the front of the container as the delivery cylinder is moved to the limit of its forward movement.

Arranged within the bottom of the housing is the stationary support 20, which support is provided with grooves 21 disposed longitudinally thereof, in which grooves are ribs 22 formed on the outer surfaces of the arms 23 which are connected adjacent to the rear ends thereof by the pin 24.

Extending from the delivery cylinder at a point intermediate its ends, is the slotted arm 25, which slot is fitted over the pin 24 so that upon rotation of said delivery cylinder, sliding movement will be imparted to the delivery arms to move them forwardly beyond the front wall of the housing. As clearly shown by the drawings, the arms 23 are provided with vertical notches 26 extending downwardly from the upper edges thereof, the notches 26 being disposed near the forward ends thereof. These notches are so arranged that when the delivery arms are moved to the limit of their inward movement, the notches will fall directly under the article receiving groove 17 of the delivery cylinder to receive an article from the groove. The upper edges of the delivery arms 23 extend above the upper edges of the stationary support 20, while the bottoms of the vertical notches 26, are below the upper surfaces of the stationary support 20. Due to this construction, it will be seen that when an article is transferred from the delivery cylinder to the notches, the article is carried forwardly with the slotted arms 23, the ends of the article beyond the slotted arms, resting on the upper surface of the stationary support, until the article moves outwardly beyond the front wall of the housing. The article now drops to the bottoms of the vertical notches, below the upper surface of the stationary support, the article delivered to the notches engaging the front end of the stationary support upon reverse movement of said arms 23, the article held in the notches 26 acting as a stop to prevent return movement of the slotted arms until the article delivered has been removed from the slotted arms.

The arms may now be returned to a position within the housing and the operation repeated by merely rotating the shaft of the delivery cylinder in an anticlockwise direction.

The ends of the shafts 27 of the delivery cylinder are provided with knobs 28 for effecting rotation of the shafts and cylinder in a manner as described.

From the foregoing it will be seen that due to the construction shown and described, I have provided a cabinet or container for containing cylindrical objects to be delivered singly from the housing with each rotation of the delivery cylinder thereof.

Having thus described the invention, what is claimed is:

A dispensing device comprising a housing including a

3

container, said housing having a front wall formed with a discharge opening, a stationary guide member and article supporting surface secured within the housing opposite to said discharge opening, spaced parallel delivery arms slidably mounted on the stationary guide member, said delivery arms having vertical notches extending from the upper edges thereof into which articles dispensed fall, the lower ends of the notches being in a plane intermediate the top and bottom of the stationary guide member providing article supporting surfaces, whereby an article resting in the notches provides a stop for contact with the ends of the stationary guide upon movement of the arms in one direction, and a manually rotatable horizontal delivery cylinder operating within the housing adapted to deliver articles from said container to said notches of said arms for delivery exteriorly of the housing, said arms and delivery cylinder being coupled for simultaneous movement.

4

References Cited in the file of this patent

UNITED STATES PATENTS

371,146	Lynde	Oct. 4, 1887
698,406	Locke	Apr. 22, 1902
945,792	Marriott	Jan. 11, 1910
1,627,647	Hultenius	May 10, 1927
1,719,826	Aldrich	July 9, 1929
1,986,658	Witter	Jan. 1, 1935
2,083,464	Mayer	June 8, 1937
2,182,955	Allen	Dec. 12, 1939
2,435,297	Thomas et al.	Feb. 3, 1948

FOREIGN PATENTS

984,055	France	Feb. 21, 1951
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