

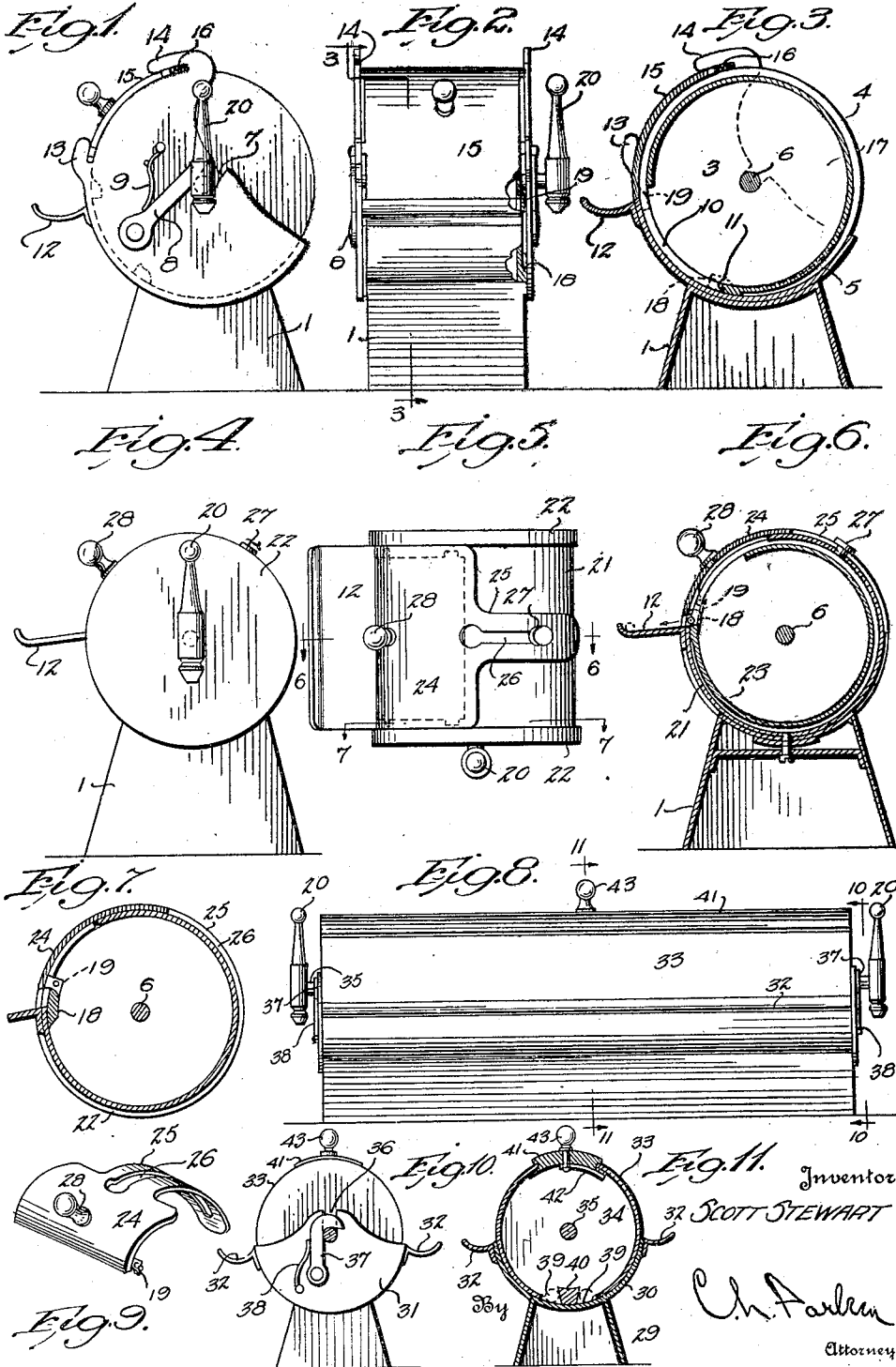
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DISPENSING APPARATUS

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DISPENSING APPARATUS.

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To all whom it may concern:

Be it known that I, SCOTT STEWART, a citizen of the United States, residing at Rivesville, in the county of Marion and State of West Virginia, have invented certain new and useful Improvements in Dispensing Apparatus, of which the following is a specification.

This invention relates to dispensing apparatus, and more particularly to an apparatus for dispensing single phonograph needles, soda water straws, tooth picks and the like.

An object of the invention is to provide a normally closed container in which the contents are protected from dust and dirt having means for dispensing the contents thereof singly.

A further object is the provision of a device of simple construction and relatively few parts.

A further object is the provision of a device of this character consisting of a container and a rotatable cylinder adapted to deliver a single one of the contents upon each revolution.

In the accompanying drawings, I have shown several embodiments of the invention. In this showing:

Figure 1 is an end elevation of one form of the invention,

Figure 2 is a front elevation,

Figure 3 is a vertical sectional view on line 3—3 of Figure 2,

Figure 4 is an end elevation of another form of the invention,

Figure 5 is a plan view,

Figure 6 is a vertical sectional view on line 6—6 of Figure 5,

Figure 7 is a similar view on line 7—7 of Figure 5,

Figure 8 is a front elevation of another form of the invention,

Figure 9 is a perspective view of a slide employed in connection with the form of the invention shown in Figures 4 to 7,

Figure 10 is a sectional view on line 10—10 of 8, and,

Figure 11 is a vertical sectional view on line 11—11 of Figure 8.

Referring to Figures 1 to 3 of the drawings, the reference numeral 1 designates a suitable base or support adapted to receive a container 2. As shown, the container consists of a cylindrical portion substantially

semi-circular in shape having end walls 3. An oscillating cylinder 4 is mounted in the casing and is slightly spaced therefrom, as indicated at 5. As shown, the cylinder is mounted on a shaft or pin 6, which is received in suitable notches 7 in the end walls. The cylinder is retained in position by means of latch members 8, pivotally mounted on the end walls and retained in operative position by means of springs 9. As shown, the wall of the cylinder is provided with a cut-out portion 10 and one edge of this cut-out portion is provided with a resilient lip 11, extending across the space 5 and adapted to receive a phonograph needle or the like, as shown in Figure 3 of the drawings. One edge of the wall 2 of the casing is provided with a shelf 12. The end walls of the casing are provided with inwardly extending projections 13 and 14, adapted to form guides for a slide 15, normally closing the opening in the casing. As shown, a spring 16 is arranged behind this slide and is adapted to retain the lower edge of the slide in engagement with the adjacent edge of the casing. The cylindrical member is provided with end walls 17 and lugs 18 are formed on the outside of these end walls adjacent the lip 11. The slide 15 is likewise provided with lugs 19, arranged between the end walls 3 of the casing and the end walls 17 of the cylinder, and adapted to be engaged by the lugs 18 when the cylinder is rotated to slightly raise the slide and permit a phonograph needle or the like to be delivered onto the shelf 12. A handle 20 is formed on one end of the shaft 6 to permit rotation of the cylinder.

In the form of the invention shown in Figures 4 to 7 of the drawings, the stationary casing 21 extends substantially three-quarters of a circle in transverse cross section and is provided with end walls 22 formed of circular plates or disks. A rotating cylinder 23 of similar construction is arranged in the casing and mounted on the shaft 6. The opening in the casing is normally closed by a slide 24 shown in detail in Figure 9 of the drawings. As shown, the slide is provided with an extension 25 having a slot 26 adapted to receive a pin 27 carried by the casing. The slide is further provided with a handle 28 to permit it to be opened or closed. This construction also embodies the lugs 18 and 19 by means

of which the slide is opened, as shown in Figure 3 of the drawings, for the delivery of an article when the cylinder is rotated.

In the form of the invention shown in 5 Figures 8, 10 and 11 of the drawings, the apparatus is adapted to dispense articles on either side, and is shown of a sufficient length to dispense soda water straws. As shown, it consists of a base 29 having a casing consisting of a substantially semi-circular bottom 30 and end walls 31. A shelf 32 is formed at each side of the casing. A cylinder 33 is mounted on the casing and adapted to rotate. As shown, the cylinder is provided with end walls 34, having a shaft 35 extending through them. The ends of the shaft are adapted to be received in slots 36 in the end plates 31 of the casing and these end plates are provided with pivoted latch members 37 normally retained in operative position by means of springs 38. The cylinder is provided with a pair of cut-out portions 39, separated from each other by a thickened portion 40 and these cut-out portions are of the proper size to receive a soda water straw, as indicated in dotted lines in Figure 11 of the drawings. Opposite the cut-out portions, the cylinder is provided with a removable portion 41, retained in position by a latch 42. This latch is secured to a handle 43, extending through the removable portion, as shown.

In the operation of the form of the invention shown in Figures 1 to 3 of the drawings, the cylinder 4 is rotated a part of a revolution in a clockwise direction in Figure 3 of the drawings, to bring the resilient lip 11 to a position adjacent the shelf 12. The lip 11, having a spring tension, always engages the inner wall of the casing, and prevents the phonograph needles or other articles, from entering the space between the cylinder and the casing. One of the articles contained in the casing 2 will ride upon the edge of the lip and when the lug 18 engages the lug 19 to raise the slide 15, the article will be delivered onto the shelf. As the slide 15 may only be moved a limited distance, the engagement of the lugs 18 and 19 limits the movement of the cylinder. When the sleeve is returned to its normal position, the spring 16 returns the slide to its closed position. The cylinder may be removed from the casing to refill it by unfastening the latches 8 on the end of the shaft.

In the form of the invention shown in Figures 4 to 7 of the drawings, the operation is substantially the same. To refill the casing in this form of the invention, the slide is moved upwardly and the phonograph needles or the like placed in the casing through the opening normally closed by the slide.

In the form of the invention shown in Figures 8, 10 and 11 of the drawings, the cyl-

inder is rotated by moving the handle 43 downwardly in either direction. The casing is refilled by removing the cover 41, the handle 43 is rotated on its end axis to release the latch 42, and the cover removed.

It is to be understood that the forms of my invention herewith shown and described are to be taken as preferred examples of the same and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. In a device of the character described, a casing comprising a pair of segmental end walls and a curved bottom, the top of said casing being open, a cylinder mounted in said casing with the axis of the cylinder arranged at right angles to said end walls, the side wall of said cylinder being provided with a cut-out portion forming an edge adapted to receive materials in the bottom of said casing and carry them upwardly, and a slide normally closing the open portion of said casing.

2. In a device of the character described, a casing comprising a pair of segmental end walls and a curved bottom, the top of said casing being open, a cylinder mounted in said casing with the axis of the cylinder arranged at right angles to said end walls, the side wall of said cylinder being provided with a cut-out portion forming an edge adapted to receive materials in the bottom of said casing and carry them upwardly, a slide normally closing the opening in the casing, and lugs formed on said slide and the edge of said cylinder adapted to raise said slide when said cylinder is rotated.

3. In a device of the character described, a casing comprising a pair of segmental end walls and a curved bottom, the top of said casing being open, a cylinder mounted in said casing with the axis of the cylinder arranged at right angles to said end walls, guides mounted on said end walls and extending over said cylinder, a slide mounted in said guides and normally closing the open portion of said casing, said cylinder being provided with an opening parallel to its axis forming an edge adapted to receive an article in the bottom of said casing and carry it upwardly upon rotation of said cylinder, and means actuated by the rotation of said cylinder to raise said slide.

4. In a device of the character described, a casing comprising a pair of segmental end walls and a curved bottom, the top of said casing being open, a cylinder mounted in said casing with the axis of the cylinder arranged at right angles to said end walls, guides mounted on said end walls and extending over said cylinder, a slide mounted

in said guides and normally closing the open portion of said casing, said cylinder being provided with an opening parallel to its axis forming an edge adapted to receive an article in the bottom of said casing and carry it upwardly upon rotation of said cylinder, and projecting lugs formed on said guide and the edge of said cylinder to raise said guide upon rotation of said cylinder.

5. In a device of the character described, a casing comprising a pair of segmental end walls and a curved bottom, the top of said casing being open, a cylinder mounted in said casing with the axis of the cylinder arranged at right angles to said end walls, the walls of said cylinder being slightly spaced from said curved bottom, a slide

normally closing the opening in the casing, said cylinder being provided with an opening parallel to its axis, one edge of said opening being thickened to contact with the curved bottom of said casing, said thickened edge forming a resilient lip to receive an article in the bottom of said casing and carry it upwardly upon rotation of said cylinder, and means controlled by the rotation of said cylinder for opening said slide.

In testimony whereof, I affix my signature in presence of two witnesses.

SCOTT STEWART.

Witnesses:

MARIE C. CALDARA,
LOUISE FARRELL.