

Dec. 29, 1925.

E. V. NESSLING ET AL

1,567,977

DISPENSING DEVICE

Filed July 14, 1921

2 Sheets-Sheet 1

Fig. 1

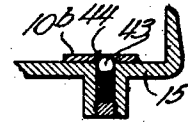
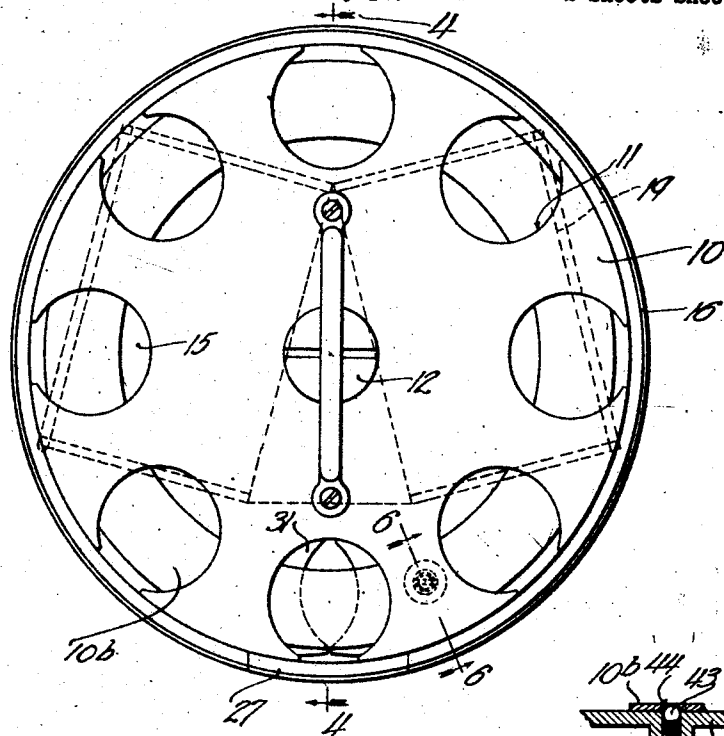
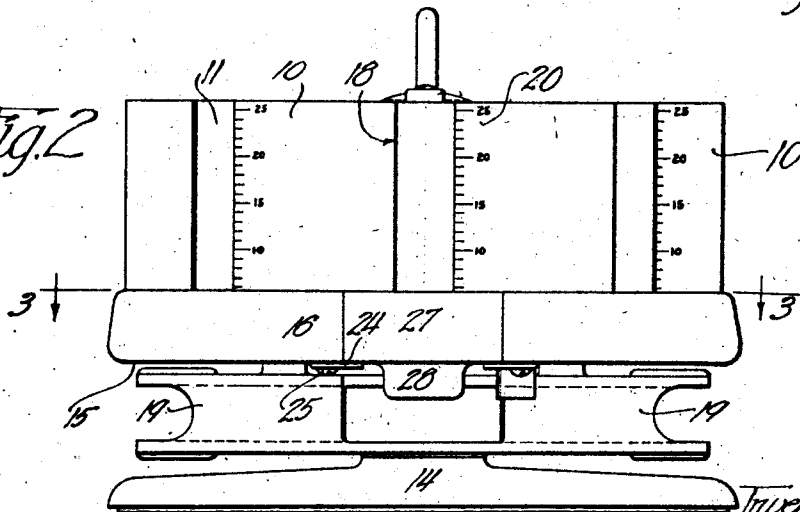


Fig. 6

Fig. 2



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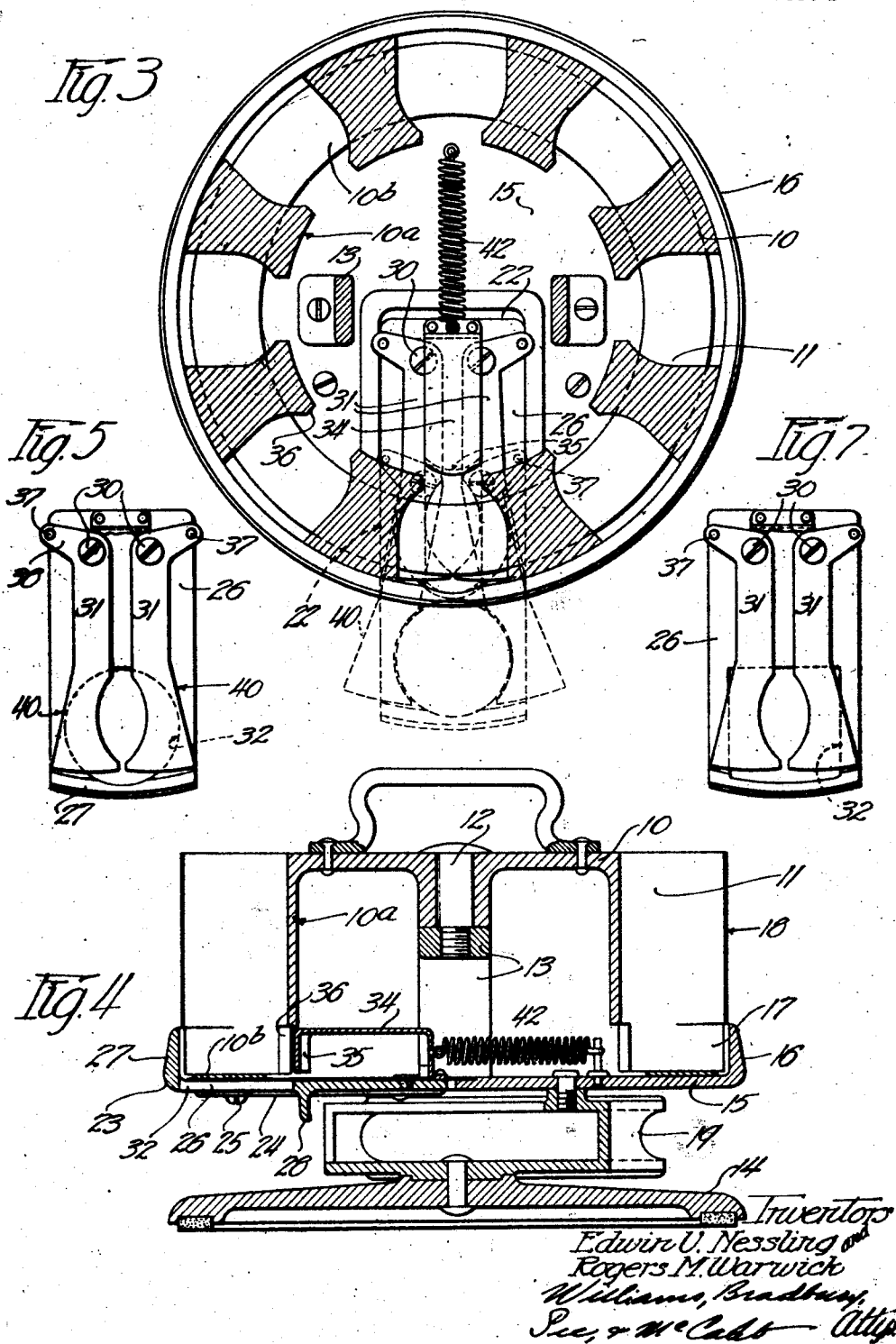
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2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE.

EDWIN V. NESSLING, OF CHICAGO, ILLINOIS, AND ROGERS M. WARWICK, OF EASTLAKE, FLORIDA; SAID NESSLING ASSIGNOR TO SAID WARWICK.

DISPENSING DEVICE.

Application filed July 14, 1921. Serial No. 484,601.

To all whom it may concern:

Be it known that we, EDWIN V. NESSLING and ROGERS M. WARWICK, citizens of the United States, residing, respectively, at Chicago, in the county of Cook and State of Illinois, and Eastlake, in the county of Marion and State of Florida, have invented a certain new and useful Improvement in Dispensing Devices, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

Our invention relates to a device adapted to contain and dispense checks, discs or chips of the type commonly used for game counters.

Our invention contemplates the provision of a device of the kind mentioned which will accommodate a plurality of stacks of chips and which embodies devices whereby the user may cause a definite number of chips to be discharged from any selected stack.

As an explanation of our invention will best be understood when read in connection with drawings illustrating the same, we shall proceed at once to a description of the accompanying drawings in which—

Figure 1 is a plan of a dispensing device embodying the novel features of our invention;

Figure 2 is a front elevation of our improved dispensing device;

Figure 3 is a section taken on line 3—3 of Figure 2;

Figure 4 is a section taken on line 4—4 of Figure 1;

Figure 5 is an isolated plan view of a slide forming a part of our improved dispensing device;

Figure 6 is a fragmentary section taken on line 6—6 of Figure 1; and

Figure 7 is a view similar to Figure 5 but illustrating a modified form of slide mechanism.

Similar characters of reference indicate similar parts throughout the several views.

The particular device illustrated is arranged to hold and dispense disc-like objects such as chips or game counters.

Referring to Figure 1, the reference character 10 designates a container having a plurality of compartments 11—11 which are adapted to receive and hold stacks of discs or chips of the kind commonly employed as counters in various games. Ordinarily the chips are stacked in accordance with their values:—that is, the chips placed in any one of the compartments are of the same value. It will be noted that the compartments 11—11 are equidistantly spaced from the axis of a pin 12 upon which the container 10 is rotatably journaled. The container 10 is preferably hollow and has an inner cylindrical surface 10^a, the purpose of which will presently appear. The pin 12 is threaded into a bracket 13 of a stand which also comprises base plate 14 and a circular lower plate 15 having an upwardly extending annular flange 16. A ring 10^b is secured to the bottom of container 10 and is adapted to support the stacks of chips disposed in the several compartments 11—11. The flange 16 serves to prevent accidental displacement of the chips through the widened lower ends of the sight slots 18—18. The outer cylindrical wall of the container 10 is preferably provided with indicia, as at 20, to enable the user at a glance to ascertain the number of chips in any one of the compartments.

Interposed between the base plate 14 and the circular plate 15, and rigidly secured to each of the plates 14 and 15, is a chambered receptacle 19 adapted to receive packages of playing cards.

A portion of the circular plate 15 is cut away, as indicated at 22, to permit a slide 23 to be mounted in the plate 15, a pair of bars 24—24 being secured to the under side of the plate 15 by screws 25—25 to support the slide 23. The slide 23 comprises a plate 26 disposed in substantially the same plane as the plate 15, but having its upper surface slightly below the upper surface of the plate 15. An upwardly extending flange 27 provided upon the outer end of the plate 26 forms a continuation of and has the same function as the flange 16. A finger piece 28 is formed integrally with the plate 26, and it will be understood that the slide may be

moved outwardly relatively to the rotary axis of the container by means of said finger piece.

Threaded into the plate 26 is a pair of pins 30—30 and mounted on these pins is a pair of arms 31—31. The arms 31—31 rest upon the upper surface of the plate 26, and are interposed between the ring 10^b and the plate 26 so that the upper surfaces of the arms are substantially flush with the upper surface of the plate 15. The arms 31—31 are adapted to close, or substantially close, an aperture 32 provided in the plate 26, the aperture 32 having a diameter somewhat larger than the diameters of the compartments 11—11. When the slide is in its normal position (shown in Figure 4), any one of the compartments 11—11 may be brought into registry with the aperture 32. At this point we wish to state that the aperture 32 may be made square or oblong in shape, as indicated in Figure 7. A square opening of this kind prevents the possibility of ejected chips turning and catching in the slide plate opening.

Rigidly secured to the rearwardly extending end of the plate 26 is a bent plate 34 having a downwardly extending flange 35 at the forward end thereof. The wall of each compartment 11 is notched as at 36 to permit the bent plate 34 with its flange 35 to enter the compartment aligned with the slide when the slide is drawn outwardly relatively to the rotary axis of the container. As shown in Figure 3, the plate 34 co-operates with the notch 36 to lock whichever compartment 11 is aligned with the slide when the slide is displaced as aforesaid. In addition, the flange 35 is adapted to displace a predetermined number of the chips from the bottom of the stack in the aligned compartment and to cause them to be carried with the slide, the remaining chips in the compartment being supported upon the upper surface of the bent plate 34. The displaced chips ride off of the ring 10^b and drop upon the arms 31—31.

It will be seen that if the slide 26 be displaced in the manner aforesaid, withdrawal of the arms 31—31 from their position closing the aperture 32 in the plate 26 will permit the chips carried by the slide to drop through the aperture 32 into the hand of the person operating the device.

The means for moving the arms 31—31 from the positions in which they close the aperture 32 comprises a pair of pins 37—37, each of the pins 37—37 being rigidly secured to an extension 38 with which each of the arms 31—31 is provided at the rearwardly extending end thereof. The pins 37—37 are adapted to engage the inner cylindrical surface 10^a of the container 10 when the slide has been displaced a distance sufficient to carry the displaced chips to a point beyond the outer circumference of the container.

Continued displacement of the slide 26 in an outward direction will cause the outer ends of arms 31—31 to move away from each other until the aperture 32 is uncovered, thus permitting the chips carried by the slide to drop through the aperture.

To restore the arms to their normal position closing the aperture 32, each arm is provided with a cam surface 40 adapted to engage one side of the slot 22 formed in the plate 15. As the slide is forced inwardly toward the central axis of the container, the arms 31—31 will be restored to their normal or closed position.

In the operation of the device, the container 10 may be angularly displaced until a compartment 11 having chips of the particular value desired is brought into alignment with the slide 26. The operator may then grasp the finger piece 28 and pull the slide 26 outwardly. During this movement, the bent plate 34 will lock the aligned compartment in operative relation to the slide and the flange 35 will cause a definite number of chips to be displaced by and carried along with the slide. When the displaced chips have been drawn to a point beyond the outer circumference of the container 10, the pins 36—36 engaging the inner cylindrical surface of the container 10 will cause the arms 31—31 to uncover the aperture 32 in the slide. The chips carried by the slide will then drop into the hand of the operator. The remaining chips in the aligned compartment 11 will be supported by the bent plate 34 until the slide has been returned to its normal position and then will drop down to rest upon the ring 10^b. The arms 31—31 are restored to their normal positions when the slide is restored to normal because of the engagement of the cam surfaces 40—40 with the sides of the slot 22.

The slide may be returned to normal either manually or by a retracting spring indicated at 42.

We prefer to provide the plate 15 with a spring pressed ball 43 adapted to engage recesses 44 in the under face of plate 10^b. Whenever any one of the compartments 11 is brought into alignment with the slide the ball 43 engages in one of the recesses 44 and frictionally but yieldingly retains the selected compartment directly above the slide.

While we have thus described the details of a preferred form of our invention, it is to be understood that we do not limit ourselves to the exact arrangement of parts herein shown and described, but desire to cover all equivalent constructions falling within the terms or spirit of the appended claims.

What we claim is:

1. A dispensing device comprising a plate, the plate having a slot in its edge, a container rotatably journaled upon the plate, the container having a plurality of compart-

ments for holding the articles to be dispensed, and means for discharging a predetermined number of the articles from any one of the compartments, the means comprising a slide disposed in said slot, the slide having an aperture with which any one of the compartments may be registered, means carried by the slide for locking the container in a plurality of adjusted positions relative to the slide, a pair of arms pivotally secured to the slide for closing the aperture in the slide, and means co-acting with the container for withdrawing the arms from their closing position, each arm having a cam surface co-acting with the plate for restoring the arm to its closing position.

2. A dispensing device comprising a plate having a slot in its edge, a container rotatably journaled upon the plate, the container having a plurality of compartments for the articles to be dispensed, and means for discharging a predetermined number of the articles from any one of the compartments, the means comprising a slide disposed in said slot, the slide having an aperture with which any one of the compartments may be registered, means carried by the slide for locking the container in a plurality of adjusted positions relative to the slide, and a pair of arms pivotally secured to the slide for closing the aperture in the slide, each arm having a cam surface which co-operates with the plate to restore the arms to its closing position when it has been displaced therefrom.

3. A dispensing device comprising a stand having a plate, the plate having a slot in its edge, a container rotatably journaled upon the stand, the container having a plurality of compartments for holding the articles to be dispensed, and means for discharging a predetermined number of the articles from any one of the compartments, the means comprising a slide disposed in said slot, the slide having an aperture with which any one of the compartments may be registered, means carried by the slide for locking the container in a plurality of adjusted positions relative to the slide, a pair of arms pivotally secured to the slide for closing the aperture in the slide, and means co-acting with the container for withdrawing the arms from their closing position.

4. A dispensing device comprising a stand having a slotted plate, a container rotatably journaled upon the stand, the container having a plurality of compartments for holding the articles to be dispensed, and means for discharging a predetermined number of the articles from any one of the compartments, the means comprising a slide disposed in the slot in the plate, the slide having an aperture with which any one of the compartments may be registered, means carried by the slide for locking the container in a plu-

rality of adjusted positions relative to the slide, and a pair of arms carried by the slide for closing the aperture in the slide.

5. A dispensing device comprising a stand having a plate, a container rotatably journaled upon the stand, the container having a plurality of compartments for holding the articles to be dispensed, and means for discharging a predetermined number of the articles from any one of the compartments, the means comprising a slide mounted in the plate, the slide having an aperture with which any one of the compartments may be aligned, means carried by the slide for locking the container in a plurality of adjusted positions relative to the slide, and means carried by the slide for closing the aperture therein.

6. A dispensing device comprising a container for the articles to be dispensed, and means for discharging a definite number of the articles from the container, the means comprising a slide, a pair of plates pivotally secured to the slide, and means for displacing the pair of plates.

7. A dispensing device comprising a container for the articles to be dispensed, and means for discharging the articles from the container comprising a slide for displacing a predetermined number of the articles relatively to the remainder of the articles, a plate pivotally secured to the slide for supporting the articles in the container when in its normal position, and means for displacing the plate relatively to the slide when the slide has displaced a predetermined number of the articles as aforesaid.

8. A dispensing device comprising a container having a plurality of compartments for the articles to be dispensed, and means for discharging a definite number of articles from any one of the compartments comprising a slide adapted to lock any one of the compartments in operative relation to it, and means carried by the slide for supporting the articles in the compartment aligned with the slide, the latter means being arranged to withdraw from its normal position relative to the slide when the slide is displaced relatively to the compartment.

9. A device of the class described comprising a manually operated slide, means comprising a plurality of chip stack receptacles, each adapted to be brought to position over said slide, an ejector adapted when operated to enter one of said receptacles and to discharge a predetermined number of chips therefrom upon said slide, an opening in the slide, means associated with the slide normally effectively closing said opening, but being operated by movement of the slide to permit the chips on the slide to drop through said opening.

10. A device of the class described comprising means affording a chip stack recep-

tacle, a slide disposed beneath said receptacle, a normally covered opening in the slide, means actuated by movement of the slide adapted to eject a predetermined number of chips from said receptacle upon the slide, and means also actuated by movement of the slide adapted to uncover said opening to

permit the ejected chips to drop there-through.

In witness whereof, we hereunto subscribe our names this 6th day of July, 1921.

EDWIN V. NESSLING.
ROGERS M. WARWICK