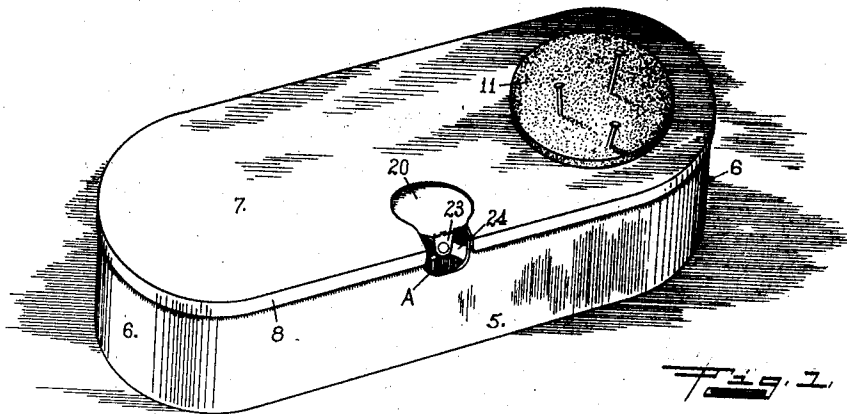
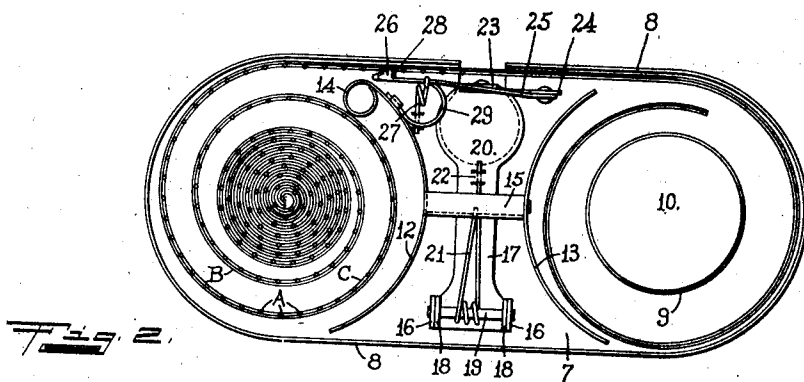
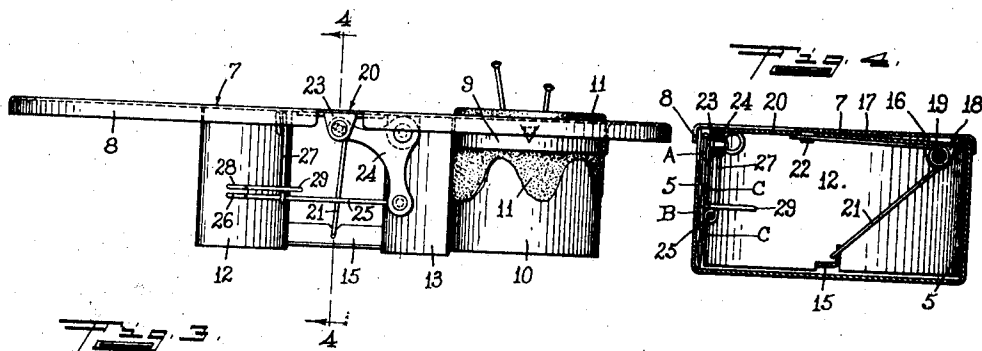


1,339,503.

B. S. ELROD.
PIN DISPENSER.
APPLICATION FILED JAN. 19, 1918.

Patented May 11, 1920.



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BENJAMIN S. ELROD, OF OMAHA, NEBRASKA.

PIN-DISPENSER.

1,339,503.

Specification of Letters Patent.

Patented May 11, 1920.

Application filed January 19, 1918. Serial No. 213,108.

To all whom it may concern:

Be it known that I, BENJAMIN S. ELROD, a citizen of the United States, and a resident of Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Pin-Dispensers, of which the following is a specification.

My invention relates to toilet and desk accessories, and it is the object thereof to provide a device for holding pins and delivering the same serially in a convenient position for removal from the holder. A further object of my invention is to provide a pin-dispensing device of simple and inexpensive construction, which may be readily refilled with prepared rolls of pin-carrying strips of paper or the like. Further objects of my invention relate to structural details of the pin-dispensing device, as hereinafter fully set forth.

In the accompanying drawings Figure 1 is a perspective view of a device embodying my invention, Fig. 2 is a bottom view of the casing-cover which carries the operating mechanism, Fig. 3 is a side view of the same, and Fig. 4 is a transverse section on the plane of the line 4-4 of Fig. 3.

In the illustrated structure I provide a box or casing of sheet metal having a rectangular central portion 5 and semi-cylindrical end-portions 6. The upper side of the casing is open, and a lid or cover 7 is provided therefor, said cover having a depending marginal flange 8 which fits over the outside of the casing so as to be frictionally retained thereon. Near one end of the cover, and arranged concentrically with the semi-circular edge thereof, there is a circular depending flange 9, and in the opening within said flange there is secured a hollow cylinder 10 having a covering 11 of fabric or the like over the upper end thereof. The latter projects slightly above the cover 7 and forms a penetrable body which may be employed as an ordinary pin-cushion, as represented in Fig. 1.

On the lower side of the cover 7 there are secured two curved guide-plates 12 and 13 of which the convex sides are adjacent to each other, the plates being concentric with the round ends of the cover and symmetrical thereto. The plate 12 has at one end thereof a rolled cylindrical part 14, and the two guide-plates are connected to each other at their lower edges by a longitudinally extending

tie-bar 15. Near one side of the cover 7, between the guide-plates, there are a pair of downwardly extending lugs 16, and between said lugs there is disposed the end of a lever 17, having lugs 18 which fit between the lugs 16 and are pivotally connected therewith by means of a pin 19. The opposite end of the lever 17 has a circular head 20 which lies beneath a circular opening in the cover, the opening preferably being slightly smaller in diameter than said head 20, and there being a slot extending laterally from the opening to the side of the cover and cutting through the flange 8. The upper edge of the casing-body 5 has a rounded notch therein, registering with the slot in the cover, as shown in Fig. 1. A wire spring 21 is coiled about the pin 19, one end of the spring being extended to engage the tie-bar 15, and the other end of the spring lying against the lower side of the lever 17 and passing through a depressed strip or tongue 22 thereon. Said spring normally holds the lever up against the lower side of the cover, and returns the lever to said raised position after the same has been depressed as by inserting the finger through the opening in the cover and pressing the head 20 downwardly. At the end of the head 20 there is a downwardly extending lug 23, and to said lug there is loosely connected the slotted end of a bell-crank 24. The latter is pivoted on a lug or tongue on the lower side of the cover 7, and has a downwardly extending arm to which is pivotally connected one end of a pawl-rod 25. Said rod extends horizontally and has at its other end a triangular head which projects laterally to form a hook-pawl 26. The intermediate portion of the pawl-rod passes slidably through a loop formed at the lower end of a hanger-spring 27 which is secured to the cover 7 and extends down therefrom, as shown. Said spring 27 holds the head of the pawl-rod out toward the side of the casing body 5, but permits a slight lateral movement of the rod. Adjacent to the pawl 26 there is a second hook-pawl 28 which is carried by a spring 29 secured to the guide-plate 12, said spring enabling a slight lateral movement of said pawl from and toward the side of the casing, but otherwise holding said pawl stationary.

For use with the above described mechanism, ordinary headed pins A are provided, the same being carried by a strip or band B

of paper or the like, having longitudinal ribbed or beaded portions C through which the pins A are inserted at uniform distances apart. The paper strips are formed into rolls of such size that one of the same will fit loosely in the approximately cylindrical space between the guide-plate 12 and the adjacent rounded end-portion 6 of the casing, the beaded parts C being on the inner side of the strip. The rolls are placed upon the cover 7 adjoining the guide-plate 12 while said cover is removed from the casing and held in inverted position as shown in Fig. 2. The outer end of the rolled strip B is carried around the rolled end 14 of said plate 12, and laid across the ends of the pawls 26 and 28, so that one or more of the pins A are between said pawls and the slot in the cover adjoining the lever-head 20. After the roll is in position, the casing is placed over the same, so that the edge of the casing is seated within the flange 8, after which the device is placed in its normal or erect position and is ready for use. It will be seen from Fig. 4 that the strip B lies between the pawls and the adjacent side of the casing 6, the pawls being so positioned as to engage the intermediate portions of the pins between the upper and lower beads C of the strip. When it is desired to remove a pin from the device, the lever-head 20 is pushed down by inserting the forefinger through the circular opening in the cover. The movement of the lever is communicated by the bell-crank to the pawl-rod 25, and the pawl 26 engages one of the pins to move the strip B toward the slot in the cover. The parts are so proportioned that said movement of the strip brings one of the pins opposite the center of said slot and of the registering notch in the upper edge of the

casing 6, the head of said pin being thus placed so that it may be readily grasped between the thumb and the finger used for depressing the lever. As the pin is withdrawn vertically from the strip, the lever 17 is raised by the spring 21, and the pawl 26 moves back to its normal position, the pawl 28 meanwhile preventing retrograde movement of the strip. As the strip is fed forward and the pins removed therefrom, the used end-portion of the strip passes on into the other end of the casing and coils into the space around the cylinder 10, approximately as indicated in Fig. 2.

Now, having described my invention, what I claim and desire to secure by Letters Patent is:

Dispensing means for pins held by a rolled strip and extending transversely of said strip, comprising a casing having compartments for receiving the rolled strip prior and subsequent to removal of the pins therefrom, said casing having a removable cover, adjacent portions of said cover and of one side of the casing-body intermediate the strip-compartments having registering notches therein forming an opening in the casing, a lever pivoted on the casing-cover opposite said opening and having one end extending adjacent thereto, a second lever pivoted on the cover, said second lever having an arm connected pivotally with the first lever and a depending arm movable longitudinally of the casing near the opening therein, a pawl-rod connected with said depending arm, a check-pawl connected yieldingly with the cover and arranged near the end of the pawl-rod, and yielding means carried by the cover and normally holding the first lever in a raised position.

B. S. ELROD.