Dec. 28, 1954 T. M. DI RENNA 2,698,110

BOBBY PIN DISPENSER

Filed Oct. 17, 1951

Fig. 8

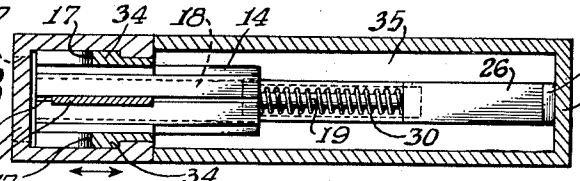


Fig. 1

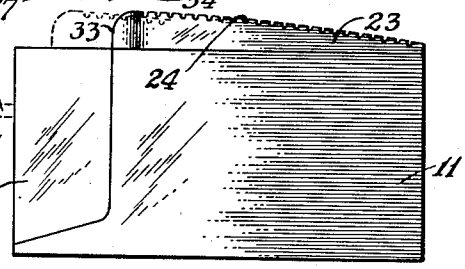


Fig. 2

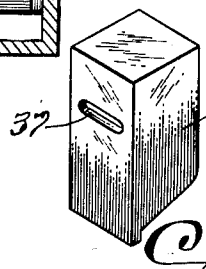


Fig. 3

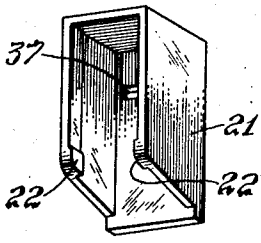


Fig. 4

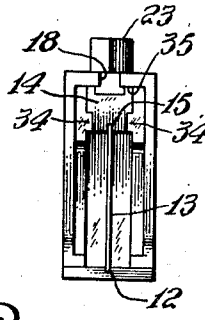


Fig. 5

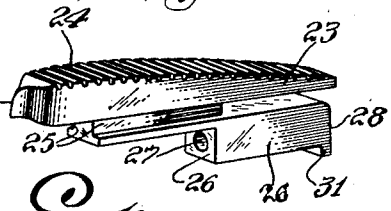


Fig. 6

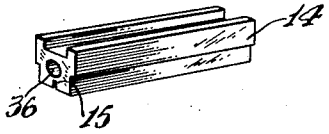
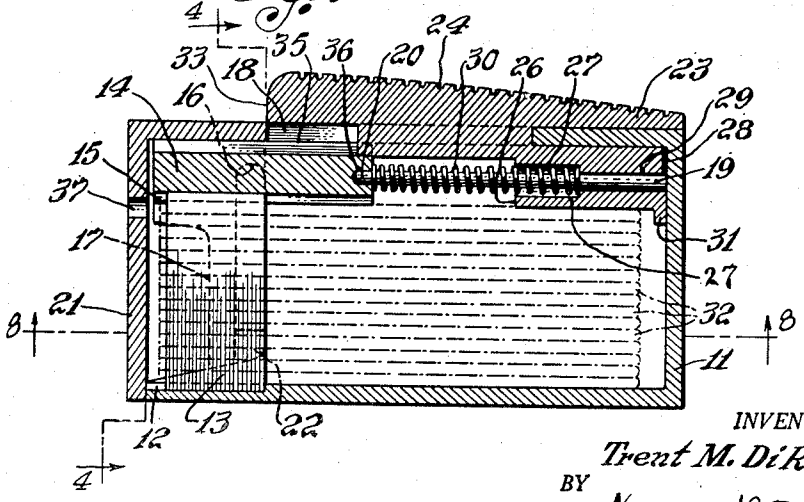


Fig. 7



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BOBBY PIN DISPENSER

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Application October 17, 1951, Serial No. 251,793

5 Claims. (Cl. 221—236)

My invention relates generally to bobby pin dispensers and specifically to bobby pin dispensers having magnetic discharge positioning means therein.

It is among the objects of my invention to provide a bobby pin dispenser which is manually and magnetically operated and ejects one bobby pin at a time.

It is among the further objects of my invention to provide a bobby pin dispenser which may be operated with one hand.

It is another object of my invention to provide a bobby pin dispenser which includes therein magnetic means for positioning the bobby pins in discharged position preliminary to being ejected.

It is among the further objects of my invention to provide a bobby pin dispenser which is simple in form, easy to construct and operate and durable.

These objects and advantages, as well as other objects and advantages, are attainable by the device illustrated in the appended drawings, in which:

Figure 1 is a side view of my bobby pin dispenser;

Figure 2 is a front view in perspective of the cover of the bobby pin dispenser;

Figure 3 is a rear view in perspective of the cover of the bobby pin dispenser;

Figure 4 is a front view of the bobby pin dispenser with the cover removed;

Figure 5 is a view in perspective of the ejector;

Figure 6 is a view in perspective of the magnet; and

Figure 7 is a cross-sectional view of the assemblage; and Figure 8 is a cross-sectional view taken on the lines 8—8 in Figure 7.

Referring now to the drawings in detail, my invention presents a casing **11**. The casing is hollow and is provided with a slot **12** at the bottom to receive a central wall or partition **13**. At the top of the casing a magnet **14** is cemented in place. This magnet has a slot **15** to accommodate the top of the wall or partition **13**. The inner sides of the casing **11** are provided with ribs **34** to provide a seat for the magnet **14**, the top of which is against the top **35** of the casing. The sides of the casing at the front end are provided with elongated depressed areas **16**. There is also a cut-out portion **17** adjacent to the wall **13**, in order to conveniently permit the insertion of the bobby pins. The top of the casing **11** has a central longitudinal slot **18**. The magnet **14** has a hole **36** which receives the end **20** of a rod **19**. A cover **21** fits over the front end of the casing **11**. This cover has an opening **37** in the front in correspondence with the point of ejection of the bobby pins. The cover is open at the rear and bottom so that it may be slid down to enclose the front of the casing **11**. On opposite sides of the cover on the inside thereof, there are a pair of dimples **22** which ride in the slot **16** and retain the cover **21** on the casing. Since the cover **21** is formed of resilient material, the cover is force-fitted on to the casing **11** and in like manner the dimples **22** may be forced to override the depressed area **16** so that the cover **21** may be removed from the casing **11**. An ejector **23** is provided. The ejector **23** has a serrated area **24** on top to permit of its easy movement by the pressure of the fingers when the casing **11** is grasped. The ejector has side grooves **25** which enter the central slot **18** and permit the ejector **23** to slide back and forth therein. The forward movement of the ejector **23** is restricted when it abuts upon the magnet **14**, at which time the extended portion **26** will bear upon the rear of the magnet **14**. The extended portion **26** has a passage **27** extending through its rear wall **28**; midway, the passage is narrowed to a smaller diameter **29**. A spring **30** is positioned in the larger end of the passage **27** and is carried on the rod **19**; the spring **30** bears on the rear of the magnet **14** and at its other end, bears on the rear wall of the casing **11**. In order to retain the spring in place, the rod **19** bears on the casing **11** at one end, is seated in the hole **36** at the other end, thereby serving to carry the spring **30** and insure its positive positioning. The spring normally urges the ejector **23** to the rearward position shown in Figure 7. At the bottom of the ejector, a flange **31** is formed and extends downwardly. This flange corresponds in position with the ejection slot **37** and will exactly engage the rear end of any one bobby pin **32** at the top of the casing **11**. The operation of my bobby pin ejector is as follows:

The cover **21** is slid upwardly to reveal the partition **13**. The cover **21** may be removed altogether by forcing the dimples **22** to override the depressed area **16**. The bobby pins are then spread slightly open at one end by applying them to the nose **33** of the ejector **23** and then the spread ends of the bobby pins **32** are inserted so as to embrace the partition **13** and they are pushed inwardly until they assume the position shown in Figure 7. Many bobby pins, however, are made with slightly open jaws so that they need not be spread to embrace the partition **13**. Succeeding bobby pins **32** are loaded in the same way until the casing is full. The cover **21** is then replaced on the casing **11** and the bobby pin dispenser is ready for use. The thumb is applied to the serrated area **24** of the ejector **23** and it is moved forward. This compresses the spring **30** and causes the flange **31** to impinge upon the end of the top bobby pin **32**, whereupon it is moved a brief distance out of the slot **37**. The user of the dispenser then grasps the end of the bobby pin which protrudes from the slot **22** and removes it from the dispenser. The release of pressure on the serrated area **24** will permit the spring **30** to restore the ejector **23** to the normal position shown in Figure 7. The magnet **14** thereupon acts upon the next bobby pin **32** and draws it up to dispensing position where it will be engaged by the flange **31**, when the ejector **23** is actuated. Succeeding bobby pins will be moved up to ejection position by the action of the magnet **14**. In normal usage all of the bobby pins will not be ejected for use at the same time. If this were the case, it would be possible that the lowest of the bobby pins might be beyond the range of the magnet and would not be raised thereby to ejection position, but in normal operation it is likely that the dispenser will be carried in a purse or pocket which will permit the lowest of the bobby pins to move around until it comes within the reach of the attraction of the magnet, whereupon it will be moved to ejection position. It has also been observed that magnetic attraction between adjacent bobby pins tends to draw lower pins to dispensing position even though they may actually be beyond the scope of the magnet. The casing **11**, the partition **13**, and the ejector **23** should be made of non-magnetic material in order that there may be no interference with the magnet's **14** attractivity.

The foregoing description is merely intended to illustrate an embodiment of the invention. The component parts have been shown and described. They each may have substitutes which may perform a substantially similar function; such substitutes may be known as proper substitutes for the said components and may have actually been known or invented before the present invention; these substitutes are contemplated as being within the scope of the appended claims, although they are not specifically catalogued herein.

I claim:

1. A bobby pin dispenser comprising a casing having a discharge slot, a magnet attached to the interior of the casing with a longitudinal bottom slot and a longitudinal top channel, said magnet positioned above the discharge slot, a thin wall adapted to be straddled by a plurality of superimposed bobby pins, said wall depending from and parallel with the slot in the magnet at one end and engaged with the casing at the other end, a movable ejector slidably positioned in the channel and having a top extending outside the casing, a portion of the ejector

extending behind the magnet, a spring engaged with the rear of the magnet and with the front of said portion normally urging the ejector away from the magnet, and a flange on the said portion of the ejector adapted to engage the end of a bobby pin straddling the wall at the top thereof.

2. A bobby pin dispenser comprising a casing having a discharge slot, a magnet with a longitudinal bottom slot and a longitudinal top channel attached to the casing and positioned above the discharge slot; a thin wall adapted to be straddled by a plurality of superimposed bobby pins, said wall depending from the slot; a movable ejector slidably positioned in the channel, a portion of the ejector extending behind the magnet, a spring engaged with the magnet and with said portion normally urging the ejector away from the magnet, and a flange on the said portion adapted to engage the end of a bobby pin straddling the wall at the top thereof.

3. A bobby pin dispenser comprising a casing having a discharge slot and a bottom slot, a magnet attached to the interior casing near the top and having a central longitudinal bottom slot therein, a thin wall of non-magnetic properties positioned in the slots, a central longitudinal channel in the top of the magnet, and a movable ejector slidably positioned in the channel having a portion extending outside of the casing and a flange engageable with a bobby pin straddling the wall adjacent to the magnet.

4. A bobby pin dispenser in accordance with claim 1 in which the casing is cut away at one end adjacent to the thin wall whereby the dispenser may be easily loaded with bobby pins.

5. A bobby pin dispenser in accordance with claim 3 in which the casing is cut away at one end adjacent to the thin wall whereby the dispenser may be easily loaded with bobby pins.

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