Dec. 7, 1948. M. M. LESLIE 2,455,506

PIN PICKUP AND HOLDER

Filed Feb. 15, 1946

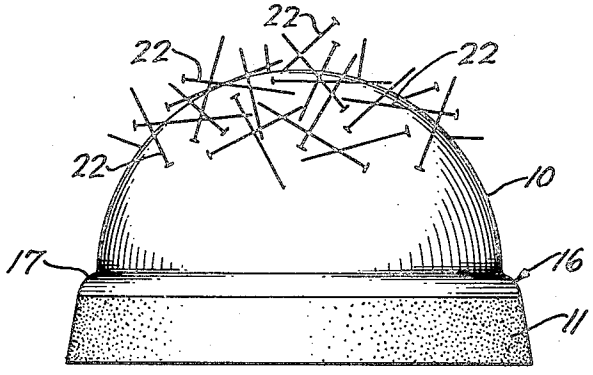


Fig. 1

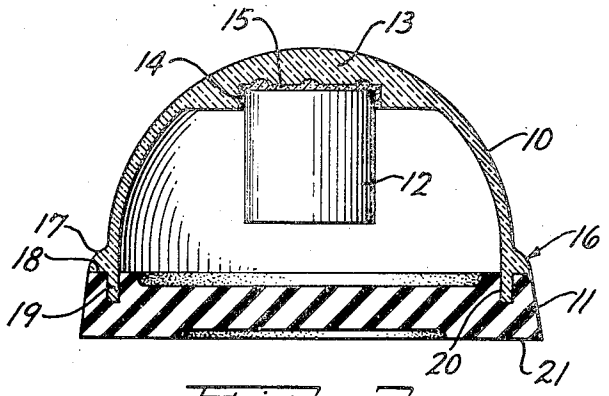


Fig. 2

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Patented Dec. 7, 1948 2,455,506

UNITED STATES PATENT OFFICE

2,455,506

PIN PICKUP AND HOLDER

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Application February 15, 1946, Serial No. 647,706

5 Claims. (Cl. 223—109)

1

This invention relates to pin holders and in particular to improvements in Magnetic pin holders.

Magnetic means have been employed heretofore to pick up and hold various metallic objects including, pins, tacks, hair pins and the like. However, the several devices of the prior art have not proven entirely satisfactory inasmuch as once metallic articles such as pins are picked up thereby, it is difficult to remove one or all of the said objects therefrom.

With the foregoing in view, the primary object of the invention is to provide a pick-up and holder which will pick up and hold pins or other objects along an upper zone thereof, which will hold pins or other objects in an easily releasable manner so that they may be removed conveniently one by one, and from which pins or other objects may be readily removed by a simple brushing of the hand over the pin retaining surface thereof.

Other objects of the invention will become apparent by reference to the following description of a pin pick-up and holder embodying the invention taken in connection with the accompanying drawing in which:

Fig. 1 is an elevational view of a dome-shaped pin pick-up and holder embodying the invention;

Fig. 2 is a vertical sectional view taken across the center of the pin pick-up and holder shown in Fig. 1.

Referring now to the drawing wherein like numerals refer to like and corresponding parts throughout the two views, the pin pick-up and holder disclosed therein to illustrate the invention comprises a dome 10 preferably formed of an opaque plastic, glass or other non-magnetic material, a base 11 of rubber or other non-metallic material, and a permanent magnet 12, all formed and associated with each other in the manner and for the purpose hereinafter described in detail.

The dome 10 is preferably cast with a thickened center portion 13 having a recess 14 formed therein to accommodate a cylindrical permanent magnet 12 which is fixed in depending relationship to the thickened central portion of the said dome 10 by a suitable cementitious material 15. A peripheral rib 16 disposed around the said dome 10 near the base thereof is preferably formed curved along its top as indicated by the reference numeral 17 and flat along the bottom thereof to provide a seat 18 which bears on the base 11 as best shown in Fig. 2. This peripheral rib 16 has a specific function hereinafter described in detail.

The said base 11 is circular in shape and is the same diameter at the top thereof as the diameter

2

of the outer periphery of the rib 16 near the base of the dome 10. The said base 11 is provided with a vertically disposed annular slot 20 equal in depth and width to the depending periphery 19 of the dome 10 located below the seat 18 at the bottom of the rib 16. The said lower periphery 19 of the dome 10 is cemented to the base 11 at the said annular vertically disposed slot 20. The center of the top and bottom of the said base 11 is formed thinner than the peripheral portion thereof to save material and provide an annular portion 21 at the bottom of the said base 11 upon which the pin pick-up and holder may rest.

The permanent magnet 12 is considerably shorter than the total height of the dome 10 and is located in sufficiently spaced relationship from the lower periphery and base of the dome 10 as to provide only a weak magnetic attraction toward the pin pick-up and holder below the upper third of the said dome 10. This relationship causes pins to be picked up and held firmly only at approximately the upper third of the dome 10 as indicated in Fig. 1.

A tailor, dressmaker or other user of pins may employ the pin pick-up and holder to pick up pins by holding the base thereof in the palm of his or her hand and passing the pin pick-up and holder over the area onto which pins may be lying whereupon pins 22 will become removably fixed to the upper third of the dome 10. Pins 22 may be readily picked off the upper third of the dome 10; and, because of the fact that the upper end of the permanent magnet 12 is disposed in considerably spaced relationship from the top of the said dome 10, the pins 22 may be removed one at a time therefrom without difficulty. When it is desired to remove all the pins 22 from the pin pick-up and holder, a simple brush of one's hand across the top of the said dome 10 and down the side thereof urges the pins 22 thereon down to and past the peripheral rib 16 whereupon the said pins 22 drop from the said pin pick-up and holder.

The general proportions and relationship of the dome, permanent magnet and base indicated in the drawing and described herein are desirable and essential to the proper functioning of the invention. Although the invention has been disclosed and described as a pin pick-up and holder, obviously it may be used to pick up and hold and readily release tacks, nails, brads, screws and other metallic articles subject to atraction to a magnetic field.

Although but a single embodiment of the invention has been shown and described in detail, it is obvious that many changes may be made in

the size, shape, detail and arrangements of the elements of the invention within the scope of the appended claims.

I claim:

1. A pick-up and holder for pins or the like comprising a non-magnetic dome and a base coupled together forming a hollow space therewithin, and a permanent magnet secured in depending relationship to the inside of the top of said dome of a length sufficiently shorter than the distance from the inside of the top of the said dome to the said base and of such diameter as to cause the pick-up and holder to pick up and hold pins or the like firmly only on approximately the upper third of the said dome.

2. A pick-up and holder for pins or the like comprising a non-magnetic dome and a base coupled together forming a hollow space therewithin, a permanent magnet secured in depending relationship to the inside of the top of said dome of a length sufficiently shorter than the distance from the inside of the top of the said dome to the said base and of such diameter as to cause the pick-up and holder to pick up and hold pins or the like firmly only on approximately the upper third of the said dome, and a rib around said dome near the base thereof formed to cause release of pins or the like from said dome when one's hand is brushed thereover.

3. A pick-up and holder for pins or the like comprising a non-magnetic dome and a base coupled together forming a hollow space therewithin, and a permanent magnet secured in depending relationship to the inside of the top of said dome but spaced from the outer top of said dome to minimize magnetism of pins or the like attracted thereby to the extreme top of said dome, the said permanent magnet being of a length sufficiently shorter than the distance from the inside of the top of the said dome to the said base and of such diameter as to cause the pick-up and holder to pick up and hold pins or the like firmly only on approximately the upper third of the said dome.

4. A pick-up and holder for pins or the like comprising a non-magnetic dome and a base coupled together forming a hollow space therewithin, a permanent magnet secured in depending relationship to the inside of the top of said dome but spaced from the outer top of said dome to minimize magnetism of pins or the like attracted thereby to the extreme top of said dome, the said permanent magnet being of a length sufficiently shorter than the distance from the inside of the top of the said dome to the said base and of such diameter as to cause the pick-up and holder to pick up and hold pins or the like firmly only on approximately the upper third of the said dome, and a rib around said dome near the base thereof formed to cause release of said pins or the like from said dome when one's hand is brushed thereover.

5. A pick-up and holder for pins or the like comprising a non-metallic non-magnetic dome, a permanent magnet secured centrally within the said dome and positioned nearer the top than the bottom thereof, and a non-magnetic closure at the bottom of the said dome, the said magnet being of such strength in proportion to the extent of the said dome that pins will be picked up and held firmly only to the upper portion of the said dome.

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