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CHILD-SAFE PILL BOX

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Fig. 1

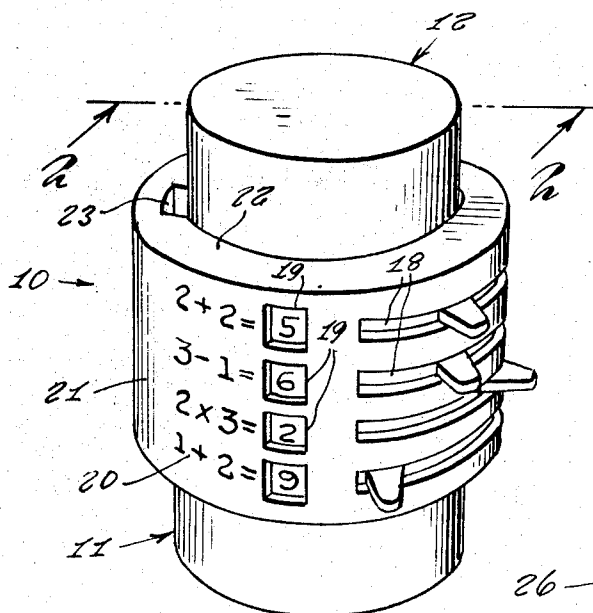


Fig. 3

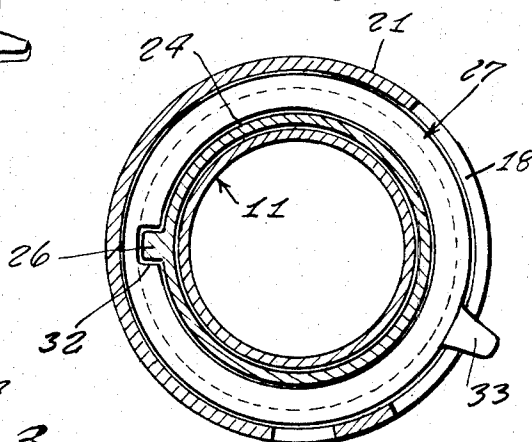


Fig. 2

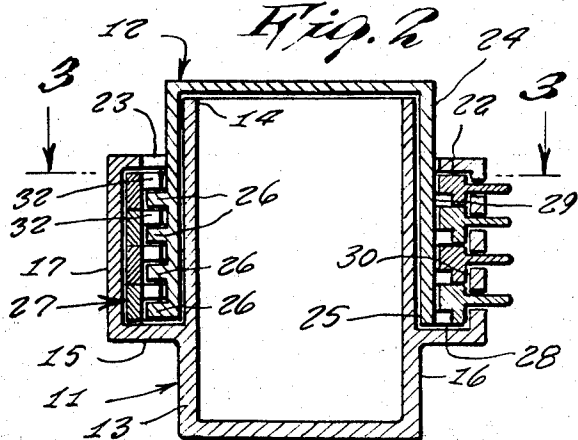
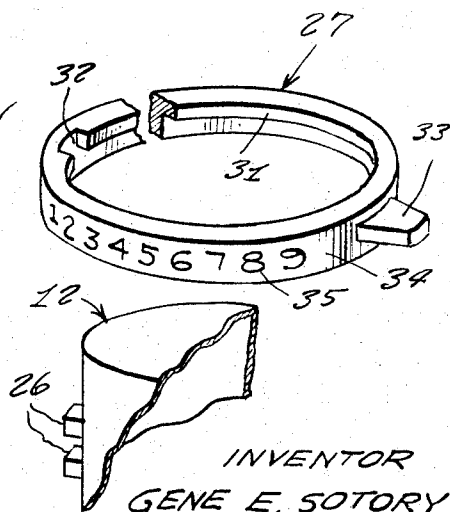


Fig. 4



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1

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CHILD-SAFE PILL BOX

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3 Claims

ABSTRACT OF THE DISCLOSURE

A pill box including a case and cover removably secured together by a series of rotatable rings each of which has a specially positioned groove to clear an obstruction on the cover, the rings being retained by the case, and the rings being required to be particularly positioned to allow clearance of the obstruction and thus let the pill box be opened.

This invention relates generally to pill boxes. More specifically it relates to pill boxes designed to prevent access thereto by unauthorized persons such as children.

Another object is to provide a child-safe pill box that employs a plurality of movable elements all of which must be particularly aligned so to allow removal of the pill box cover to gain entry thereto.

Other objects are to provide a child-safe pill box which is simple in design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

These and other objects will be readily evident upon a study of the following specification and the accompanying drawing wherein:

FIGURE 1 is a perspective view of the invention,

FIGURE 2 is a cross sectional view taken on line 2-2 of FIGURE 1,

FIGURE 3 is a cross sectional view taken on line 3-3 of FIGURE 2,

FIGURE 4 is a fragmentary perspective view of a part of the locking mechanism.

Referring now to the drawing in detail, the reference numeral 10 represents a child-safe pill box according to the present invention wherein there is a case 11 and cover 12, each of which is of cylindrical configuration.

The case 11 includes a cylindrical vessel 13 having opening 14 at its upper end; the vessel 13 having a radially outward extending flange 15 at an intermediate portion of the outer side 16 thereof, the flange having an upwardly extending collar 17 at the periphery thereof, the collar being spaced from the outer side 16. The collar is provided with a series of arcuate slots 18 one over the other.

Additionally a window opening 19 is located adjacent one end of each slot 18 for a purpose which will be explained herebelow. An arithmetic equation 20 is imprinted upon the outer side 21 of the collar adjacent each opening 19; each equation comprising the given members of a problem followed by an equal sign. The answer to the particular equation is lacking and the position of the answer is in the position of the opening 19. As shown in FIGURES 1 and 2, an inward extending flange 22 is provided at the upper end of the collar, the flange 22 having a notch 23 therein.

The cover 12 comprises an inverted vessel 24 having opening 25 at its lower end for purpose of fitting over the vessel 13 of the case. The cover 12 includes a plurality of vertically spaced apart, sidewardly extending protrusions 26 which will pass through the notch 23 when the case and cover are ported.

2

sions 26 which will pass through the notch 23 when the case and cover are ported.

A plurality of rings 27 are fitted into the space 28 between the outer side 29 of the cover and the inner side 30 of the collar. Each ring has an inwardly extending flange 31 having a differently positioned notch 32 for purpose of allowing the protrusions 26 to pass therethrough. Each ring has a handle 33 extending outwardly of one of the slots 18 in the collar for purpose of manually allowing the ring to be rotated. On the outer side 34 of each ring a series of numerals 35 are imprinted each of which may be selectively positioned within the window opening 19 of the collar.

In operative use, pills are placed within the case and locked therein by means of the cover and the lock assembly comprised of the rotatable rings. Access to the pills are denied to any child who is too young to know the danger of their use. Such child is of an age so that he cannot compute the equations printed on the collar so cannot associate presently the proper number in the window openings. However a person with mature intelligence in use of pills and in knowledge of simple mathematics will know how to open the pill box by rotating each ring until the correct answer is provided in the window opening to each equation. When the rings are thus positioned, the notches on the rings are in alignment to allow passage of the protrusions 26 through the notches 32 of the rings, thus allowing the cover to be lifted from the case so to gain access to the pills.

The novel features and the operation of this device will be apparent from the foregoing description. While the device has been shown and the structure described in detail, it is obvious that this is not to be considered limited to the exact form disclosed, and that changes may be made therein within the scope and the spirit of the invention.

Having thus set forth and disclosed the nature of this invention, what is claimed is:

1. In a pill box, the combination of a case and cover, and a locking mechanism comprised of a plurality of rotatable rings for locking said cover to said case, said case comprising an upstanding cylindrical vessel having an opening at its upper end, a radially outwardly extending flange on an intermediate outer side of said case, an upward extending collar at the periphery of said flange, said collar being spaced from said outer side of said vessel, a plurality of arcuate slots through said collar, a window opening adjacent an end of each said slot, the given portion of an arithmetic equation imprinted on the outer side of said collar and to the left of each said window opening, and an inward extending flange at the upper end of said collar, said inward extending flange having a notch therein.

2. The combination as set forth in claim 1 wherein said cover comprises an inverted cylindrical vessel having an opening at its lower end for receiving said vessel of said case, and a plurality of radially outwardly extending protrusions in vertical alignment on the outer side of said case vessel.

3. The combination as set forth in claim 2 wherein said locking mechanism comprises a plurality of rotatable rings between said collar and the outer side of said cover vessel, each said ring having an inwardly extending flange with a notch in said flange, each said ring having a handle receivable through one of said arcuate slots of said collar, and each said ring having a series of numerals imprinted on its outer side for selective alignment within said window opening, said protrusions of said cover being verti-

3
cally movable through said notches of said rings and said upper flange of said case to separate said cover from said case.

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U.S. Cl. X.R.

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