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DISINFECTING CONTAINER
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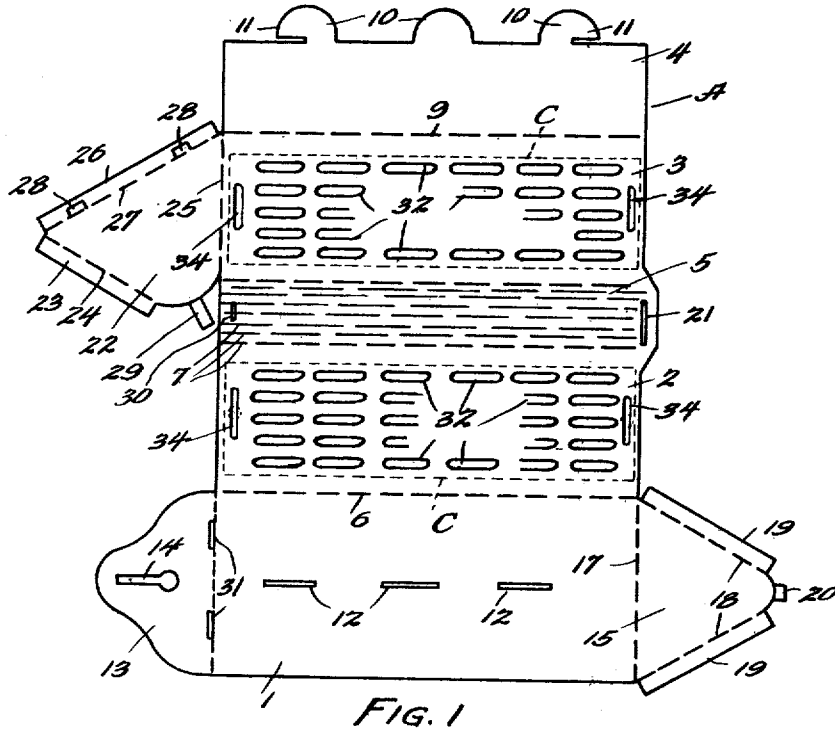
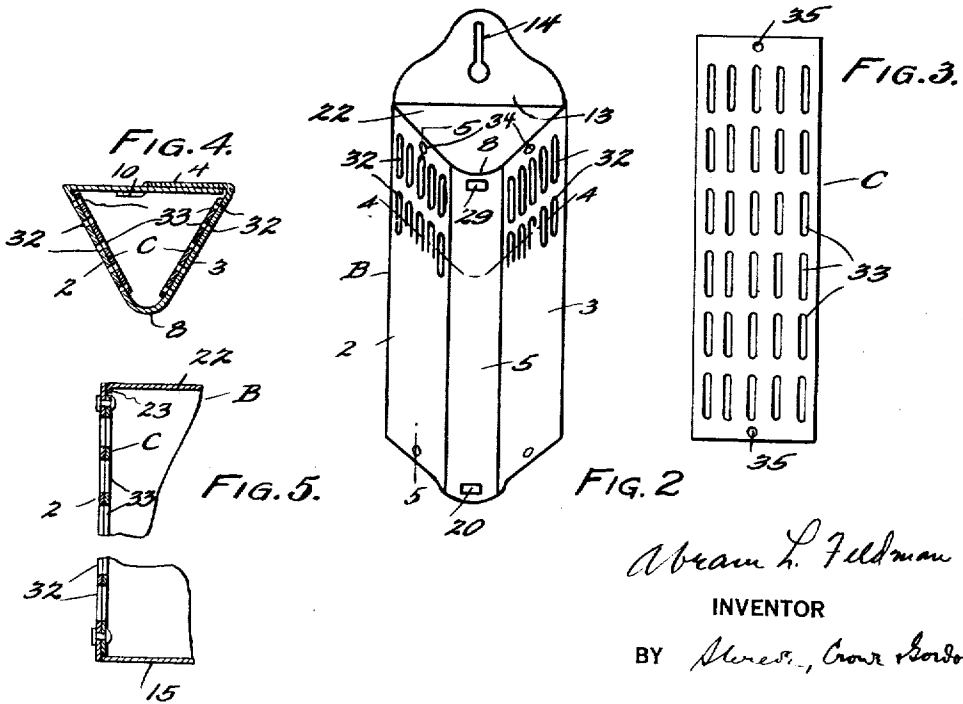


FIG. 1



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DISINFECTING CONTAINER

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Generically this invention relates to dispensing devices but it more especially comprehends the type constructed from a one-piece blank and nonrefillable.

5 A principal object of this invention is the provision of a dispensing device formed from a one-piece blank of pasteboard or the like for dispensing a disinfecting and deodorant substance to the surrounding atmosphere and
10 adapted to be discarded when the initial contents have become exhausted.

A further important object of this invention is the provision of a container for a volatile substance in solid form, said container
15 being formed from a one-piece blank and having co-acting means for interlockingly uniting the respective sections to form such container and adjustable means for regulating the discharge of the volatile substance to the
20 surrounding atmosphere.

With these and other objects in view, which will become apparent as the description proceeds, the invention resides in the construction, combination and arrangement of parts,
25 hereinafter more fully described and claimed, and illustrated in the accompanying drawings, in which like characters of reference indicate like parts throughout the several figures, of which:

30 Fig. 1 is a plan view of the one-piece blank and scored prior to folding and showing the slide panels in dotted outline;

Fig. 2 is a perspective view of the device with parts in folded and locked position;

35 Fig. 3 is a detail plan view of one of the slide panels;

Fig. 4 is a horizontal cross section on the line 4—4 of Fig. 2; and

40 Fig. 5 is a fragmentary vertical section on the line 5—5 of Fig. 2.

The dispensing devices of this character with which I am familiar principally constructed from metal and the like have proven
45 unsatisfactory by reason of their inability to be shipped in a compact form, and expense of production and handling, and it was to overcome the deficiencies of such devices and to provide a dispensing container primarily
50 formed from a one-piece pasteboard blank at a negligible cost, having means for sealing

the device when not in use and regulating the discharge of the volatile substance when in use, susceptible of shipment in knocked down or compact form, expeditiously foldable and interlocked to form a container with
55 the contents enclosed, so as to present a non-refillable device, that I designed the device constituting the subject matter of this invention.

In the illustrated embodiment characterizing this invention there is shown a blank A, receptacle B constructed therefrom and slide
60 panels C, hereinafter to be more fully explained.

The blank A is substantially rectangular
65 in configuration and is composed of back section 1, side sections 2 and 3 and back flap section 4 and front or intermediate sections 5. Said blank is scored as at 6 to define back
70 section 1 and along which line the blank is folded to position back section 1 with respect to side section 2. Front section 5 is provided with a plurality of score lines 7, which
75 when the sides 2 and 3 are positioned as shown in Fig. 2, the section 5 will be curved as indicated at 8. The flap section 4 is defined by score line 9, along which line the
80 flap is folded into overlapping engagement with back section 1, the outer edge of flap 4 is provided with ears 10, the two outside ears being formed with oppositely extending bill
85 11, the said ears adapted to extend through slots 12 when flap 4 is brought into overlapping engagement with section 1, thereby firmly securing the side sections 2 and 3 to back
90 section 1, as shown in Fig. 2 when the container has been completely developed, as will hereinafter appear.

The section 1 is cut at its upper end to form a projecting flap 13 provided with a bayonet slot 14 for attaching the device to a suitable support, and terminates at its lower end
95 in bottom flap 15 defined by score 17, along which line it is folded to provide a bottom for the container, as will be apparent. The said
100 bottom flap is scored as at 18 to define flaps 19, which are of a length corresponding to the width of sides 2 and 3, and which when folded at right angles to section 1 are adapted to engage the inner surfaces of the side

sections. Intermediate the outer ends of flaps 19, bottom 15 is provided with tongue 20 adapted to extend through and interlockingly engage slot 21 in front section 5, the lower end of said section 5 extending below the edge of sections 1, 2, 3, and 4, so that when operatively positioned the bottom will rest in a horizontal plane, as will be apparent.

The side 3 terminates at its upper end in a top section 22 conforming in configuration to Fig. 2 in cross section, and is provided with flap 23 defined by and foldable on score 24 adapted to overlappingly engage the inner surface of the side 2 when section 22 is folded on score 25 and brought to a position at right angles to side 3. Top section 22 is also provided with flap 26 defined by score line 27 and formed with ears 28, the end opposite said flap 26 is formed with ear or tongue 29 and when section 22 is folded at right angles to side 3 and flap 4 brought to overlapping engagement with back 1, and ears 10 engaged in slots 12, ear 29 is adapted to interlockingly engage slot 30 of front section 5 and ears 28 with slots 31 of top section 13, whereupon container B will have been developed from blank A as heretofore described.

It is apparent that the cake or block of volatile disinfecting and deodorant substance conforming in configuration to that of container B is put in the container prior to its being completely closed, as above described, and in order that such substance may be freely dispensed to the surrounding atmosphere each of the sides 2 and 3 of the blank A is provided substantially throughout the area thereof with a plurality of openings or apertures 32, and in order to seal such openings when the container is not in use and to regulate discharge of vaporized substance as desired, the slide panel C substantially corresponding to but of slightly less dimensions than the respective sides 2 and 3, is adapted to slidably engage the inner surface of said sides and is formed with a plurality of openings or apertures 33 corresponding in number and arrangement to the openings 32.

Each of the said sides 2 and 3 is formed with transverse slots 34 adjacent the top and bottom thereof and a wing nut, or rivet 35 having a suitable head or other suitable element adapted to extend through said slot 34 with its inner end secured in opening 36 of said panel C, whereby the panel may be longitudinally movable to permit complete opening and closing of the apertures 32 or partially as desired, as and for the purpose heretofore described.

The panels C are preferably constructed of similar material to the blank A but may be of any suitable material.

From the above it will be evident that I have designed a preferably non-refillable container for a volatile disinfecting and deodor-

izing material for disinfecting and purifying the air contiguous to such container, capable of being expeditiously suspended or locked in any desired location, having means for sealing the container and regulating the discharge of the volatile substance, constructed from a minimum of material, and from a one-piece paper blank, comprising few parts, yet easily foldable and interlocked in course of development from the blank into the container, with the substance encased therein, and manufacturable at a negligible cost, thereby permitting the discarding of the container when the initial contents have become exhausted, and with all, efficient for the purposes intended.

Although in practice I have found that the form of my invention illustrated in the accompanying drawings and referred to in the above description as the preferred embodiment, is the most efficient and practical; yet realizing the conditions concurrent with the adoption of my invention will necessarily vary. I desire to emphasize that various minor changes in details of construction, proportion and arrangement of parts, may be resorted to within the scope of the appended claims without departing from or sacrificing any of the principles of this invention.

Having thus described my invention, what I desire protected by Letters Patent is as set forth in the following claims:

1. A container formed from a one-piece blank, substantially rectangular in configuration and scored to define back, front, side and attaching flap sections, said back section scored and terminating in an extension flap at its upper end, having slots therein and a bottom section at its lower end, having flaps engageable with the side sections, one of said side sections scored at its upper end and terminating in a top section formed with a flap engageable with the other side sections, said top section formed with a plurality of ears, one of the ears interlockingly engageable with a slot in the front section, and the other ears engageable with slots in the extension flap of the back section, when the bottom section is folded at right angles to its respective side and an ear on the bottom section engageable with its respective slot in the front section when it is folded at right angles to the back section, and ears on the first mentioned flap section engageable with slots in the back section when folded thereover to unite said foldable components into a unitary container structure.

2. A foldable container comprising a blank divided into sections, the sections being foldable relatively to provide a structure triangular in configuration, certain of the sections being apertured for the passage of air, adjustable means coacting with said apertured sections to effect opening and closing of said apertures, and means to effect interlock-

ing engagement of the sections to retain them in the form of a container.

3. A foldable container comprising a blank divided into sections, including back and auxiliary back sections, perforated side sections, and a front section of lesser dimensions than the back section, the back section terminating at its lower end in a bottom section and one of the side sections terminating at its upper end in a top section, a perforated panel adjustably secured to the side sections to effect opening and closing of the apertures in said sections, and means to effect interlocking engagement of the sections to retain them in the form of a container.

4. A container formed from a one-piece blank substantially rectangular in configuration, scored to define a back section at one end of the blank, an auxiliary section at the other end, side sections intermediate said first mentioned sections, a front section separating said side sections, a bottom section integral with the back section and foldable at right angles thereto and a top section integral with one of the side sections and foldable at right angles thereto, said back and front sections formed with slots and the top and bottom sections formed with ears adapted to engage their respective slots when the sides, front, back and auxiliary sections have been folded on said score lines to operative position, and ears carried by the auxiliary section for interlocking engagement with slots formed in the back section when the auxiliary section is brought to overlapping engagement with the back section to unite said sections into a unitary structure.

5. A container formed from a blank substantially rectangular in configuration and scored to define a back section at one end thereof, formed with a plurality of slots, and terminating at its lower end in a bottom section foldable at right angles thereto, and having an ear at its free extremity, said blank scored at its opposite end to define an auxiliary back section formed along its outer edge with a plurality of ears, said blank being scored substantially central thereof to form a front section of less width than the back section, and having a slot at its opposite ends, a side section intermediate the front and back sections, and front and auxiliary back sections, respectively, the last mentioned side terminating at its upper end in a top section foldable at right angles thereto and formed along one edge with ears and with an ear at its front edge, said ears adapted to engage respective slots in the front and back sections when folded at right angles to the side sections, the ear of said bottom section being engageable with the slot in the front section when foldable at right angles to the back section, and the ears of the auxiliary section engageable with their respective slots in the back section when the sections are

folded around said bottom and top sections to form a container.

6. A container formed from a one-piece blank, scored and foldable on said score lines to provide a back section at one end of the blank, an auxiliary back section at the opposite end, a side member foldable along one edge of the back and auxiliary sections, respectively, and a front section intermediate the two side sections of less width than the back section, a top section integral with one of the side sections of substantially rectangular configuration and foldable along score line coincident with the end of the auxiliary section, a similar shaped bottom section integral with the lower end of the back section and foldable at right angles thereto on score line coincident with the lower edge of its contiguous side section, ears carried by said top section certain of which are engageable with the respective slots carried by the back section, the remaining ear engageable with a slot formed in the front section, an ear carried by the bottom section engageable with the slot carried by the lower end of the front section when the back and side sections have been folded to conform to the configuration of the top and bottom sections and the auxiliary section brought to overlapping engagement with the back section, and ears carried by the auxiliary section adapted to engage slots formed in said back section to interlockingly unite the respective sections into a container.

7. A container formed from a blank scored at one end to define a back section, formed with a longitudinally series of centrally disposed slots and a transverse series at its upper end and scored to define an auxiliary flap at its opposite end formed with a plurality of ears, a side section integral with one edge of the auxiliary section terminating at its upper end in a substantially triangular top section foldable at right angles thereto coincident with the upper edge of the auxiliary section, said side section formed with a plurality of apertures, and a side section integral with one edge of the back section and formed with a corresponding plurality of apertures, a front section of less width than the bottom section intermediate the side section and formed with a plurality of scores and an aperture at its upper and lower end, said top section having ears respectively engageable with the slot in the front section and slots in the back section and the bottom section having an ear engageable with the slot in the lower end of the front section when the auxiliary section is brought to overlapping engagement with the back section, and the ears of said auxiliary section interlockingly engaging the longitudinal series of slots in the back section to form a container each of said side sections having a transverse slot at the top and bottom, a panel formed

with a plurality of apertures corresponding to those of the side sections adapted to engage the inner surface of each side section, and means extending through each of said slots and suitably secured to said panel to slidably secure the panels to the sides.

This specification signed this 29th day of July, A. D., 1929.

ABRAM L. FELDMAN.

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