

June 30, 1936.

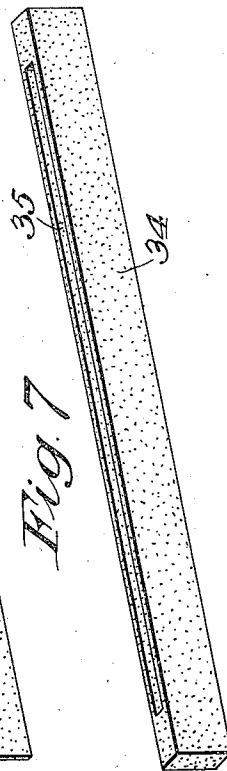
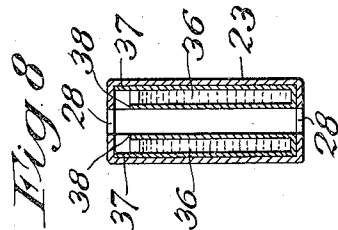
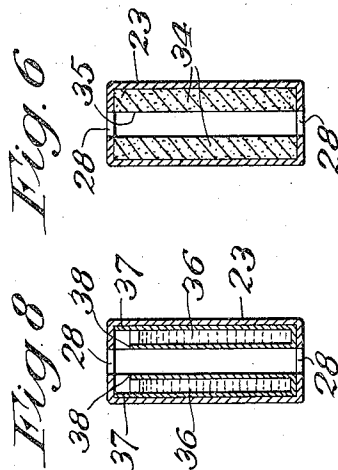
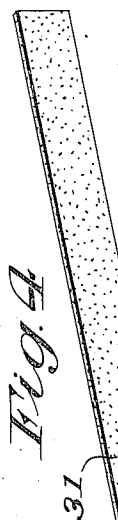
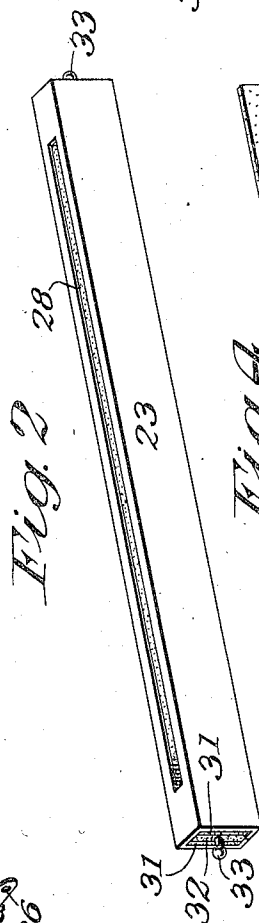
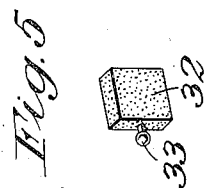
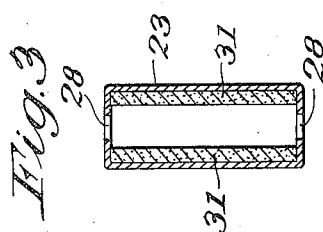
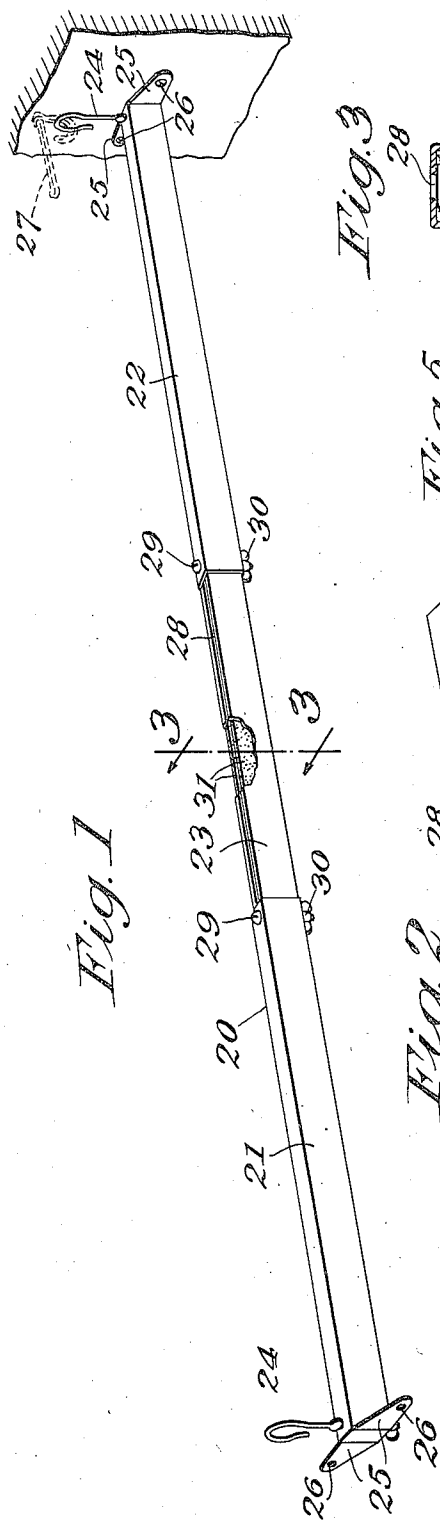
S. C. BRODY

2,045,941

SUPPORT AND DISPENSING DEVICE

Filed March 11, 1935

2 Sheets-Sheet 1



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Fig. 9

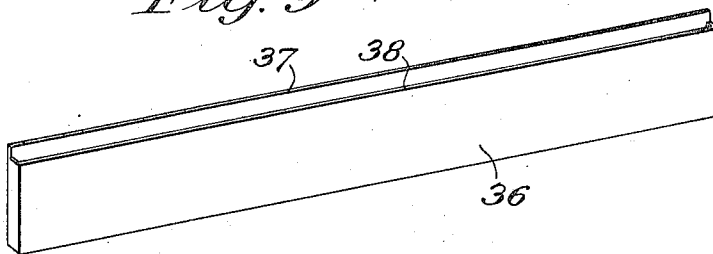


Fig. 11

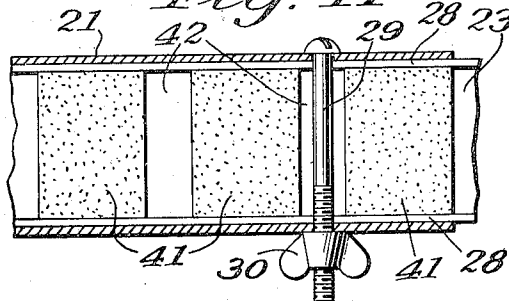
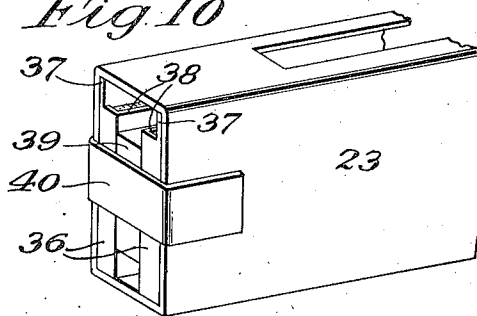


Fig. 10



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UNITED STATES PATENT OFFICE

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SUPPORT AND DISPENSING DEVICE

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Application March 11, 1935, Serial No. 10,541

10 Claims. (Cl. 299—20)

This invention relates to a combination rod, support or holder for garments, objects, articles, or the like, as well as a holder and dispenser for a preparation of chemicals, drugs or other like ingredients, acting as a moth preventative, deodorant, germicide, insecticide or the like.

The principal object of my invention is to provide a combination article which will reliably and effectively fill all of these functions efficiently and most effectively as a wholly adjustable, expansive and detachable device for the most practical and effective action and distribution of the intended work or reaction, obtainable through the aforementioned preparation, acting as a moth preventive, deodorant, germicide, insecticide or the like. Other objects are to provide a combination article which will be inexpensive of manufacture and effective and desirable in use.

I attain these objects in the combination article described and illustrated herein. In its broadest aspect my invention consists of a dispenser and holder or support rod having a portion serving as a holder and dispenser for a deodorant or the like, said holding portion being vented to atmosphere so that the odors, fumes or vapors given off by the enclosed deodorant or other content may escape into a room, closet or other space, or the like in which it may be mounted on or attached to. More especially, my rod is a sectional rod, the sections of which are adjustable to enable the rod to span varying distances between supports, at least one section of such rod being hollow and vented to atmosphere and serving as a holder and dispenser for the deodorizing or other content.

As illustrative of the many possibilities of my invention, I show in the accompanying drawings several embodiments thereof which I have found highly satisfactory under actual service conditions.

In such drawings:—

Fig. 1 is a perspective view, partly broken away, of one embodiment of supporting rod in accordance with my invention.

Fig. 2 is a perspective detail of one section thereof.

Fig. 3 is a cross-section on the line 3—3 of Fig. 1.

Fig. 4 is a perspective detail of one of the various chemical inserts which may be used in connection with the invention, removed.

Fig. 5 is a perspective detail of one of the many types of retaining closures which may be used in connection with my invention, removed.

Fig. 6 is a cross-section through the modified form of insert illustrated in Fig. 7 and showing the same in place within a rod.

Fig. 7 is a perspective detail of such modified insert, removed.

Fig. 8 is a cross-section showing a still further modification of rod and insert.

Fig. 9 is a perspective detail of one of the modified inserts shown in Fig. 8, removed.

Fig. 10 is a perspective detail illustrating one method of retaining an insert or inserts within the supporting rod, and

Fig. 11 is a fragmentary longitudinal section showing a still further modification of the chemical insert.

The rod illustrated in Fig. 1 is a sectional rod which may be expanded and contracted, to span variable distances between any pair of spaced supporting surfaces.

In its simplest form, such rod comprises three sections, viz., a pair of end sections 21 and 22 and an intermediate section 23. Any desired number of rod sections may however be used and these may be of any desired size, shape, and material, and will expand to any desired length by simply adding additional sections necessary.

The end sections are provided with means, as the hooks 24 or their equivalents, for detachably suspending the rod between any suitable supporting surfaces, such surfaces being provided with co-acting means as the hooks 27 or their equivalents, with which the hooks 24 or their equivalents are adapted to be engaged. My combination invention also has means for fixedly mounting any end or any member or all end sections to any supporting means or devices. Where desired, however, the hooks 24 and 27 may be omitted, and the rod attached to the supporting surfaces by some other fastening means, as for example by screwing the same to the supporting surfaces. For example, the end sections may, but need not necessarily, be provided with attaching means which afford a stabilized bearing contact with the supporting surfaces, as well as enable the attachment of the rod to such supporting surfaces. These may take the form of oppositely flaring wings 25, which are apertured as at 26 to receive attaching screws or equivalent fastenings.

The several rod sections may be of channel cross-section. The intermediate rod section 23 may be longitudinally slotted along its top and/or bottom faces, as at 28.

In order to permit and hold the adjustment of the several rod sections, bolts or their equivalents

29 having wing or other nuts 30, or their equivalents, may be disposed through the inner ends of the end sections 21 and 22 and through the registering slots 28 of the intermediate section 23.

5 As contemplated with this embodiment of my rod, the rod sections or any of them, preferably the intermediate section 23, serves as a holder for a chemical compound, as a deodorizer, fumigant, insecticide, germicide or the like.

10 This may take any desired physical form, as solid, semi-solid, liquid, semi-liquid, flaked, granular, crystalline, powdered, etc. Where solid, as shown in Figs. 1 to 4 inclusive, it may be in the form of a pair of relatively narrow strips 31.

15 These may be slightly shorter than the rod section 23 and of slightly less height so as to lie within the same in close proximity to the front and rear walls thereof, and at either side of the slots 28. Thus positioned, they will not interfere with travel of the bolts 29 in the slots 28 when the rod sections are contracted and expanded.

20 With this form retaining closures 32 having finger grasping knobs 33 or their equivalents, may be removably inserted into the open ends of the section 23, thereby preventing the accidental or any other than intentional displacement of the said chemical compound aforesaid.

25 As a variant, the inserted chemical compound may be a solid or semi-solid 34 having a longitudinal slot 35 which may extend from top to bottom thereof and substantially from end to end thereof. (See Figs. 6 and 7.) The bolts 29 travel in the slot 35 when the rod sections are contracted and expanded.

30 In both forms, the vapors, fumes, odors, or the like given off by the insert escape through the slots 28 and permeate the space in which the rod and its aforementioned chemical compound is installed as well as permeating any objects or things either hung from or attached to the rod, or those within the space, room, or place within which the rod is installed.

35 In the form shown in Figs. 8, 9 and 10, the chemical compound is a liquid, as at 36, and is contained in liquid-tight holders 37 having closed bottoms and open tops.

40 Like the strips 31, these holders 37 (one of which is detailed in Fig. 9) are dimensioned to fit within the rod section 23 in close proximity to the front and rear walls thereof, and to clear the bolts 29.

45 Preferably, although not necessarily, the inner upper edge of each holder is rabbeted, as at 38, to permit more ready escape of the odors, vapors, fumes, etc., given off by the liquid through the upper slot 28.

50 The holders are retained within the rod section 23 in any desired manner, as by means of the end closures shown in Fig. 10. These may take the form of spacers 39 for the holders 37 held in place by any suitable means, as the adhesive or other strips 40 disposed across the open ends of said section 23.

55 As a further variant, the chemical insert may be in the form of a solid or semi-solid 41 having a plurality of spaced vertical holes 42 therein, within which the bolts 29 are adapted to be selectively positioned according to the degree of expansion or contraction of the rod. In such form, the adjustment of the rod is had by disengaging the bolts 29 completely from the rod sections, shortening or lengthening the sections and replacing the bolts in the proper holes 42 according to the desired adjustment of the rod.

70 In all forms of my invention, I provide unique

facilities for both conveniently mounting and effectively distributing the desired effective properties of the chemical or other preparation in a thorough and efficient manner. The fumes, vapors, odors or the like are emanated directly and forcefully into the garments or other articles or objects hung on the rod, which being in proximity to the fumes as they escape from the rod are thoroughly and completely permeated and affected thereby.

10 My invention eliminates the necessity, for example, of placing moth or naphtha balls, flakes, crystals or the like in the pockets, folds, etc. of the individual garments, articles, or objects or the like, or the necessity of using a complete moth-proof or other protective bag, case or other type of enclosure for said garments, articles, objects, or the like.

15 Being suspended in mid-air, as it were, the fumes, odors, vapors, etc. given off by the aforementioned chemical preparation are completely circulated through the entire room, closet or other space within which my combination article is hung, attached or installed before their effective penetrative and permeating capacity becomes weakened as for example by contact with walls or other types of barriers which absorb, retard, or otherwise detract from the fumigating, disinfecting, deodorizing and purifying properties of the preparation.

20 With my invention, the fumes, etc., are disseminated at the same rate of discharge and distributing speed in all directions simultaneously so that their action is practically uniform throughout the entire space in which the combination article is installed. Thus, throughout the entire space, the effect and action of the disseminated fumes, etc., is equally strong in all portions thereof, giving an equalized fumigating, disinfecting, deodorizing and purifying effect to such garments, articles, or objects exposed in the room, closet, or other space in which my invention is installed.

25 What I therefore claim and desire to secure by Letters Patent is:—

30 1. In a combination article, a telescopic hollow rod comprising end sections and an intermediate section having a longitudinal slot, means associated with said end sections whereby the rod may be attached to supports, means associated with said end sections and slidable in said slot of the intermediate section providing for and holding the adjustment of said sections, and said intermediate section receiving a volatile substance and being vented to atmosphere through said slot thereof.

35 2. An article as claimed in claim 1, wherein the preparation is a pair of strips arranged within said intermediate section and spaced apart a distance such that the means which permits and holds the adjustment of the rod sections will clear the strips in the expanding and contracting adjustments of the rod.

40 3. An article as claimed in claim 1, wherein the preparation to be dispensed is a block having a longitudinal slot therein of a width sufficient to clear the means which permits and holds the adjustment of the rod sections in the expanding and contracting adjustments of the rod.

45 4. An article as claimed in claim 1, wherein the preparation to be dispensed is a liquid and is contained in a pair of liquid-tight containers which are open in the vicinity of said slot to permit escape of the vapors through said slot and are spaced apart a distance such that the means which permits and holds the adjustment of the 75

rod sections will clear the containers in the expanding and contracting adjustments of the rod.

5 5. In a combination article, a telescopic hollow rod comprising at least three hollow sections, viz: a pair of end sections and an intermediate section, said end sections having means whereby the rod may be attached and adjusted to suitable supports and said intermediate section having a longitudinal slot, bolt-like members associated with said end sections and extending through said slot of the intermediate section providing for and holding the adjustment of said sections, said intermediate section receiving a volatile substance and venting to atmosphere through said slot thereof, and retainers for said preparation removably positioned at the ends of said intermediate section for preventing accidental or unintentional dislodgment of said preparation.

20 6. A combination article comprising a sectional rod having at least two telescopic sections one of which is provided with a longitudinal slot, means carried by one of said sections and disposed in the slot of the slotted section providing for and holding the adjustment of the sections, said rod having means whereby it may be attached to independent supports, at least one of

the rod sections having a chamber for the reception of a volatile substance, and said chamber communicating with the slot of the slotted section.

7. A combination article comprising a sectional rod having end sections and a longitudinally slotted center section telescopic therewith, means carried by the end sections and disposed in the slot of the center section providing for and holding the adjustment of said sections, said rod having means whereby it may be attached to independent supports, at least one of said rod sections having a chamber for the reception of a volatile substance, and said chamber communicating with the slot of the center section.

8. An article as claimed in claim 7, wherein the volatile substance is a strip.

9. An article as claimed in claim 7, wherein the chamber is liquid-tight and the volatile substance is a liquid.

10. An article as claimed in claim 5, wherein the volatile substance is a solid which is so formed as not to interfere with the movement of the bolt-like members in the slot of the center section when the rod is expanded and contracted.

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