

May 10, 1932.

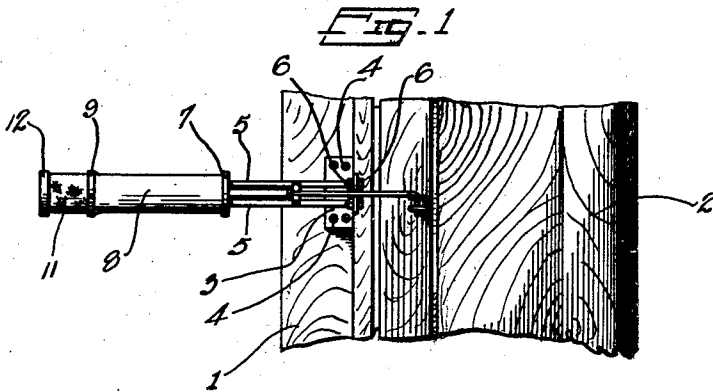
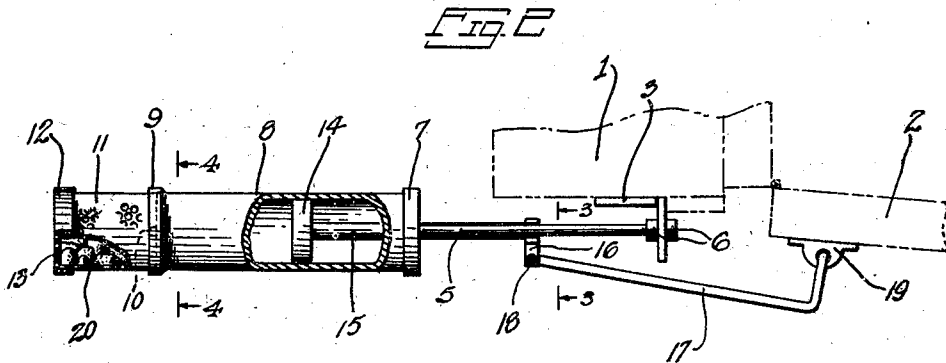
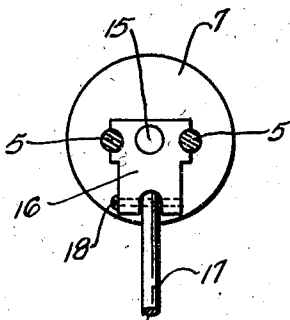
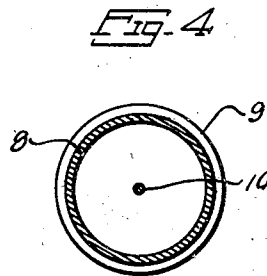
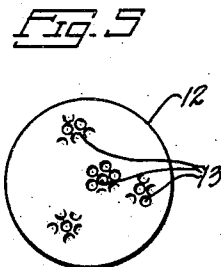
E. COHN ET AL

1,857,358

DRY VAPOR SPRAY

Filed March 14, 1930

2 Sheets-Sheet 1



EUGENE COHN
HAROLD COHN
INVENTORS

BY *Munn Co.*

ATTORNEYS

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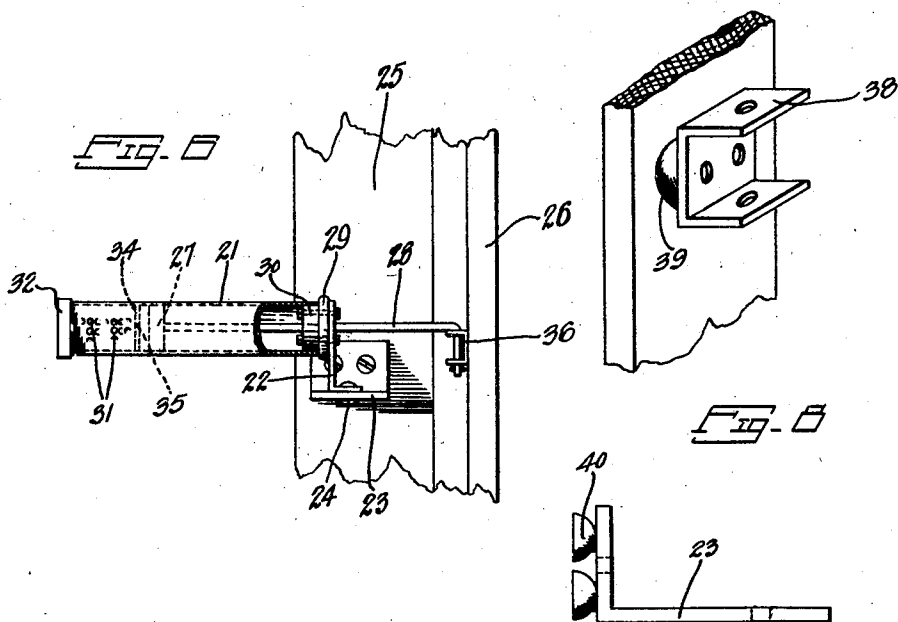
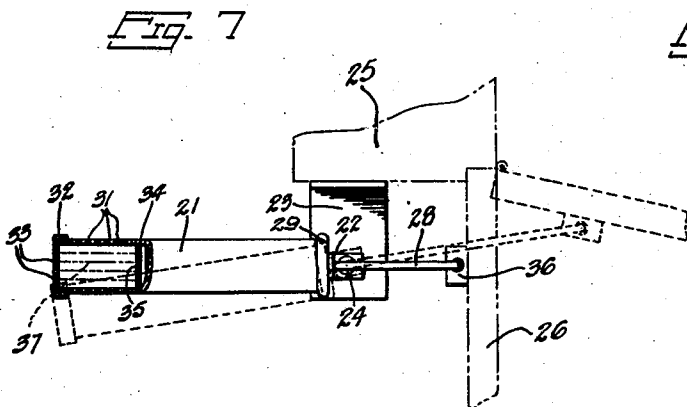
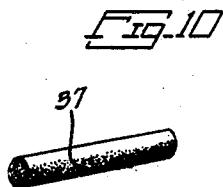
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DRY VAPOR SPRAY

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2 Sheets-Sheet 2



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Patented May 10, 1932

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UNITED STATES PATENT OFFICE

EUGENE COHN AND HAROLD COHN, OF CHICAGO, ILLINOIS, ASSIGNORS TO SADIE COHEN, OF CHICAGO, ILLINOIS

DRY VAPOR SPRAY

Application filed March 14, 1930. Serial No. 435,862.

Our invention relates to improvements in dry vapor sprays, and it consists in the combinations, constructions, and arrangements herein described and claimed.

5 An object of our invention is to provide a dry vapor spray which may be operatively connected with a moving element such as a door, whereby the device may be positively and automatically operated as when opening
10 and closing the door.

A further object of our invention is to provide a device of the type described in which novel means is employed whereby a dry insecticide or deodorant may be employed, and
15 in which novel means is used for forcing vapor from the device.

A further object is to provide a device of the type described which is ornamental in appearance, simple in construction, and in
20 which means is provided whereby insects such as moths and the like may be effectively controlled.

Other objects and advantages will appear

secticide material which may be employed.

In carrying out our invention we make use of a frame or casing 1 having a moving element 2, such as a door, hingedly connected therewith. In Figures 1 and 2 we have
25 shown a bracket 3 as being mounted upon the casing 1 through the medium of screws 4. The bracket is provided with a plurality of openings through which supporting rods 5 project, whereby the rods may be rigidly as-
30 sembled in connection with the bracket through the medium of nuts 6. The opposite ends of the rods are threaded and disposed within threaded openings in an end plate 7. The latter closes one end of a casing
35 8 which is provided with a closure 9 having a central opening 10.

A perforated member 11 is secured to the closure 9 and is provided with a cap 12 having perforations 13 therein. The member 11
40 provides a receptacle for the insecticide as will be explained hereinafter. In referring to Figure 2 it will be noted that a piston 14

tomatically operated, and a device whereby a room and its contents may be effectively conditioned to prevent insects such as moths and the like. The device also provides a convenient deodorizing mechanism.

In Figures 6 and 7 we have shown a slightly different form of our device in which a cylinder 21 is connected with a bracket 22 having pivotal action upon a supporting bracket 23 through the medium of a bolt or rivet 24. The supporting bracket is mounted upon a frame or casing 25 having a cooperating moving element such as a door 26. The cylinder 21 is provided with a piston 27 having a piston rod 28 passing through a closure plug 29. The plug is securely fastened to the end of the cylinder 21 and is provided with a plurality of openings through which bolts or screws 30 may be passed for securing the plug to the bracket 22. One end of the casing is provided with a multiplicity of perforations 31. This end of the casing is provided with a closure 32 having perforations 33. The casing is provided with a partition 34 having a central opening 35. The outer end of the piston rod 28 is operatively connected with a bracket 36 which is carried by the door 26.

The operation of this form of the device is substantially identical with that connected with our previously defined construction. It will be noted however in referring to Figure 7, that during the opening and closing of the door 26, the cylinder 21 will be caused to oscillate a certain distance. In this form of our device we have shown the insecticide as simulating sticks 37 which may be arranged within the perforated chamber of the cylinder.

Figures 8 and 9 show a modified form of bracket which may be employed for securing our device upon its supporting structure. Figure 8 discloses a bracket 38 having suction pads 39 secured thereto. In Figure 9 we have shown a slightly different form of our bracket which is also provided with suction pads as indicated at 40.

In actual use we apply a certain amount of glue upon the suction face of the pads whereby the latter may be firmly secured upon a supporting structure. This feature eliminates the necessity for using bolts or screws in connection with finished woodwork. Ordinarily, however, the devices are permanently mounted and are in themselves ornamental which, of course, permits screws and the like to be employed.

We claim:

1. A device of the type described adapted to be operated by a swinging door and comprising cylindrical means carried by a stationary supporting structure, a piston means disposed within the same and passing to the exterior thereof, a moving element, connecting means secured to said moving elements

and located between the latter and said piston means whereby the piston is actuated when the moving element is moved, said cylindrical means being provided with an insecticide-containing chamber having an opening therein, and partition means disposed between the insecticide-containing chamber and said piston means and having an opening therein.

2. A device adapted to be operated by a swinging door of the type described comprising a cylinder provided with a plurality of supporting rods fixed to a supporting stationary structure, a piston disposed within said cylinder, a piston rod connected with the piston and extending to the exterior of the cylinder, a sliding block guided by said rods and connected with the piston rod, a moving element, and an arm secured to said moving element and connecting the latter with said sliding block.

3. A device adapted to be operated by a swinging door of the type described comprising a cylinder provided with a plurality of supporting rods fixed to a supporting stationary structure, a piston disposed within said cylinder, a piston rod connected with the piston and extending to the exterior of the cylinder, a sliding block guided by said rods and connected with the piston rod, a moving element, an arm secured to said moving element and connecting the latter with said sliding block, and a perforated insecticide-containing chamber associated with said cylinder.

4. A device adapted to be operated by a swinging door of the type described comprising a cylinder provided with a plurality of supporting rods fixed to a supporting stationary structure, a piston disposed within said cylinder, a piston rod connected with the piston and extending to the exterior of the cylinder, a sliding block guided by said rods and connected with the piston rod, a moving element, an arm secured to said moving element and connecting the latter with said sliding block, a perforated insecticide-containing chamber associated with said cylinder, and a partition disposed between the insecticide-containing chamber and said piston and having an opening therein.

5. A device adapted to be operated by a swinging door of the type described comprising a cylinder provided with a plurality of supporting rods fixed to a supporting stationary structure, a piston disposed within said cylinder, a piston rod connected with the piston and extending to the exterior of the cylinder, a sliding block guided by said rods and connected with the piston rod, a moving element, an arm secured to said moving element and connecting the latter with said sliding block, a perforated insecticide-containing chamber associated with said cylinder, a partition disposed between the insecti-

side-containing chamber and said piston and having an opening therein, and a fastening device comprising a suction pad glued to a supporting structure.

5 Signed at Chicago in the county of Cook and State of Illinois this 11th day of March, A. D. 1930.

EUGENE COHN.
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