Dec. 30, 1924. 1,520,796

H. G. BARTLING

SPRAY CABINET

Filed Dec. 3, 1923

Fig. 1

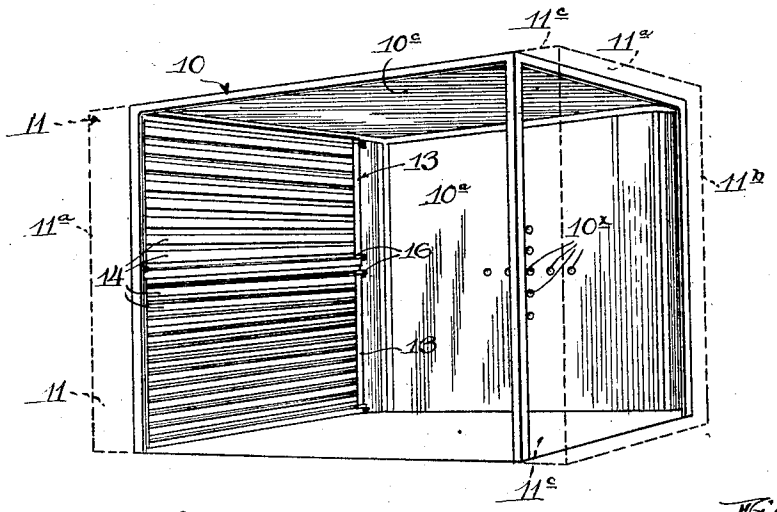


Fig. 2

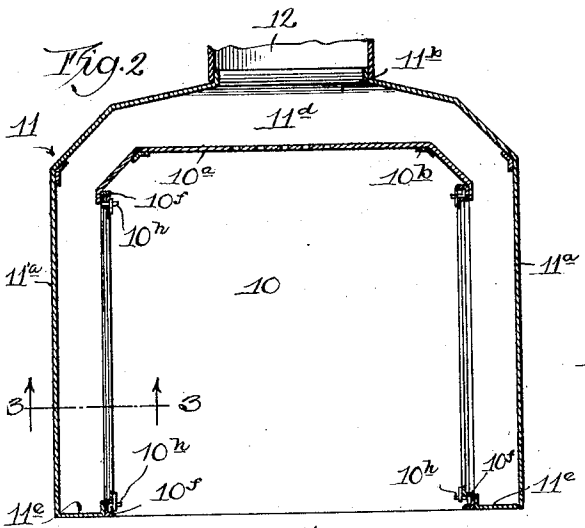
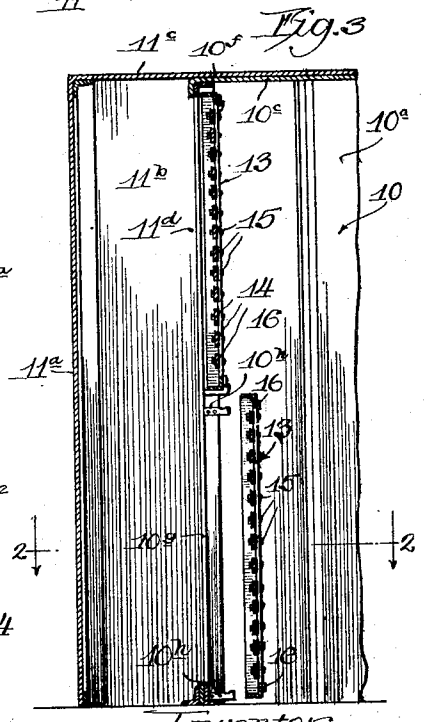


Fig. 3



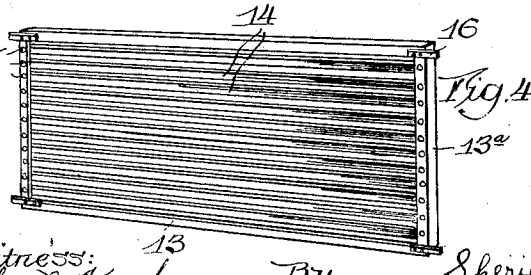


Fig. 4

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UNITED STATES PATENT OFFICE.

HOWARD G. BARTLING, OF CHICAGO, ILLINOIS.

SPRAY CABINET.

Application filed December 3, 1923. Serial No. 678,105.

To all whom it may concern:

Be it known that I, HOWARD G. BARTLING, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Spray Cabinet, of which the following is a specification.

My invention relates to improvements in spray cabinets and has for its object to provide an insertable and attachable sub-cabinet which may be positioned in a main spray cabinet, having an exhaust port, in such wise that the walls of the sub-cabinet apertured for exhaust of fumes, or the like, will be spaced from the adjacent walls of the main cabinet, permitting exhaust to the exhaust port of the main cabinet. This construction permits the use of the sub-cabinet with existing main cabinets, or its use with any main cabinet to permit positioning of the exhaust ducts or ports to direct the exhaust drafts from the sub-cabinet in a desired manner.

These and other objects will be more fully described and set forth in the following specification and shown in the accompanying drawing in which,

Figure 1 is a perspective view of a sub-cabinet embodying my invention, one of the exhaust frames being shown as removed, and the outline of the surrounding main cabinet being indicated in dotted lines.

Fig. 2 is a horizontal section along the lines 2—2 of Fig. 3.

Fig. 3 is a vertical section along the lines 3—3 of Fig. 2.

Fig. 4 is a perspective of one of the exhaust frames.

10 indicates, generally, a sub-cabinet which is insertable in a main cabinet 11 having the side walls 11^a, rear wall 11^b, and top wall 11^c. In the form shown the main cabinet 11 is provided with an exhaust port 11^d in the rear wall 11^b which port is in communication with an exhaust duct 12. The main cabinet 11 is open at the front, save for the inwardly projecting flange 11^e shown, for example in Fig. 2.

The sub-cabinet 10 is provided with a rear wall 10^a and a top wall 10^c. Angle bars 10^f are provided at the edges of the sub-cabinet. The side walls 10^b are formed by removable slotted panels 13 each having a frame of angle iron 13^a, and from the adjacent corner post 10^f project the brackets 10^h (see Figs. 2 and 3). The side walls of the sub-cabinet are spaced from the adjacent side walls 11^a of the main cabinet and the rear wall 10^a is likewise spaced from the main cabinet rear wall 11^b, the tap walls 10^e and 11^e being in contact or closely adjacent.

Between the side angles of the frame 13 extend the slats 14 which are removably secured thereto by bolts 15, or the like. Projecting outwardly from the side angles are the supporting pins 16 which rest upon the brackets 10^h, when in assembled relation, to support the frames 13 in position. A plurality of small apertures 10^x are provided in the rear wall 10^a for a purpose hereinafter specified.

When inserted in the main cabinet 11, sub-cabinet 10 will be spaced from the side and rear walls thereof and inturned flanges 11^e closing the space between the main and sub-cabinet at the front thereof, the sub-cabinet being open at the front for access to the operator. The slats 14 may be replaced or removed to vary the size or position of the exhaust duct through the frame 13, enabling the operator to vary the draft effect to accord with varying conditions.

When in use the excess spray, fumes, or the like will be drawn to either side of the article being sprayed through the spaces between the slats 14 into the space between the cabinet and out through the exhaust port 11^b. A small amount of exhaust will take place through the aperture 10^x, this exhaust being sufficient to obviate the existence of an air pocket or dead space in the rear of the sub-cabinet. The sub-cabinet may be readily removed for access to the interior of the main cabinet for cleaning, repair, or other purposes.

The sub-cabinet permits the desirable directioning of exhaust draft away from the article being sprayed thus preventing the deposit of paint, varnish, or other particles on the body of the article at surfaces not being sprayed.

My invention is susceptible of modification and I do not wish to be restricted to the form shown and described except as defined in the appended claims.

What I claim is:—

1. In combination, a spray cabinet having an exhaust port and a sub-cabinet mounted in said cabinet with a wall spaced from the adjacent wall of said cabinet, said sub-cabinet being apertured for exhaust.

2. In combination, a spray cabinet having an exhaust and a sub-cabinet located in said main cabinet with its side walls spaced from the adjacent walls of said main cabinet, said sub-cabinet side walls being provided with exhaust apertures.

3. In combination, a main cabinet having an exhaust port, a sub-cabinet located in said main cabinet with its side and rear walls spaced therefrom, the side walls of said sub-cabinet being apertured to provide relatively large exhaust area, said rear walls being apertured for a relatively small exhaust area.

4. In combination, a main cabinet having an exhaust port, a sub-cabinet located therein with a wall spaced from the adjacent wall of said main cabinet, said sub-cabinet wall being formed of a plurality of removable apertured panels.

5. In combination, a main cabinet, a sub-cabinet located therein and having a wall spaced from the adjacent wall of said main cabinet and means closing the gap between said spaced walls at the front of said cabinet.

6. In combination, a main cabinet, a sub-cabinet mounted therein with its side walls spaced from the adjacent walls of the main cabinet, said main cabinet being provided with an inturned flange extending between said spaced walls at the front of said cabinets.

In testimony whereof, I have subscribed my name.

HOWARD G. BARTLING.