

June 5, 1934.

D. E. LHOMMEDIU

1,961,562

SPRINKLER FOR AN AUTOMATIC BEE COMB FILLER

Original Filed Jan. 2, 1932

Fig. 1.

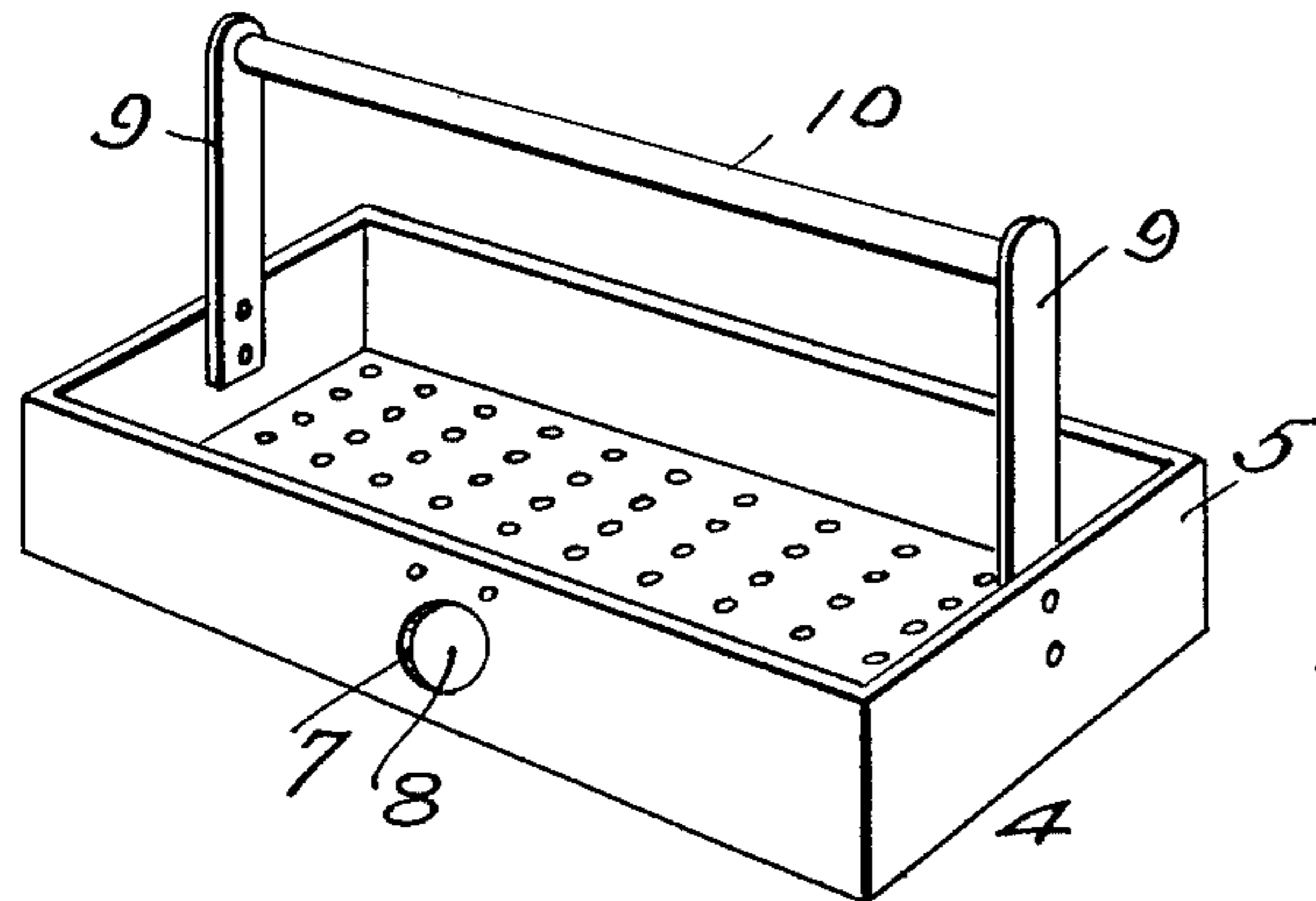


Fig. 2.

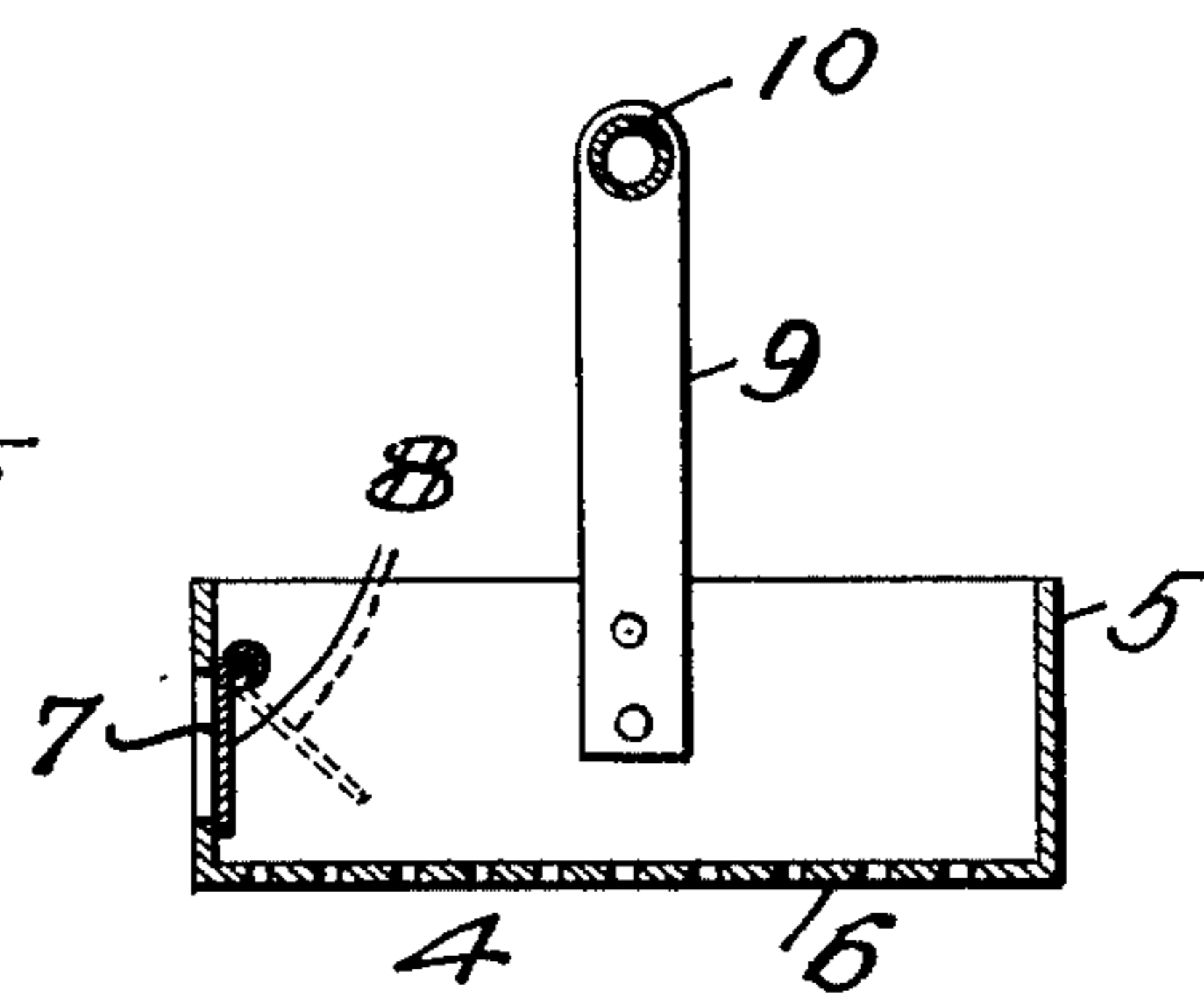


Fig. 3.

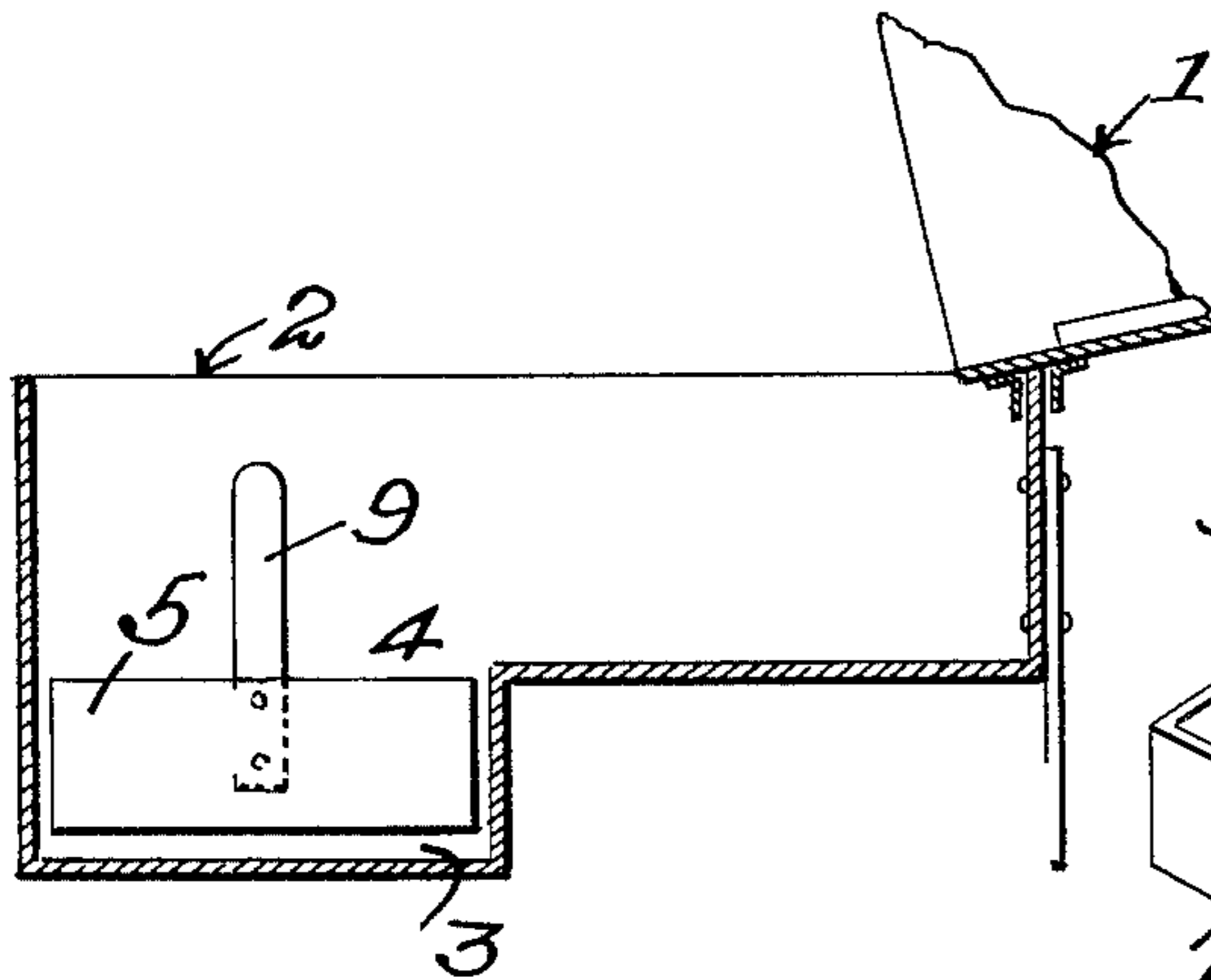


Fig. 6.

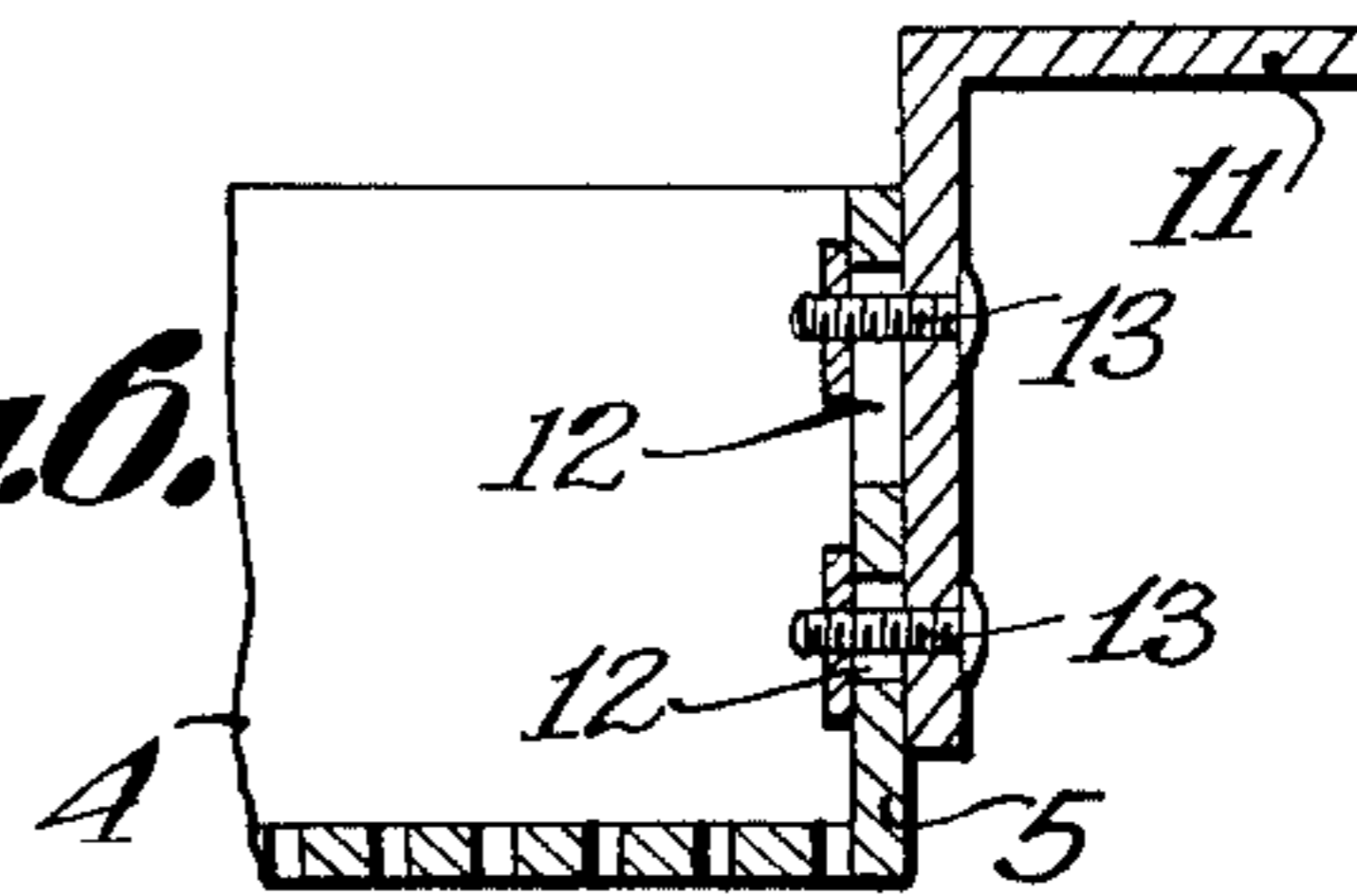


Fig. 5.

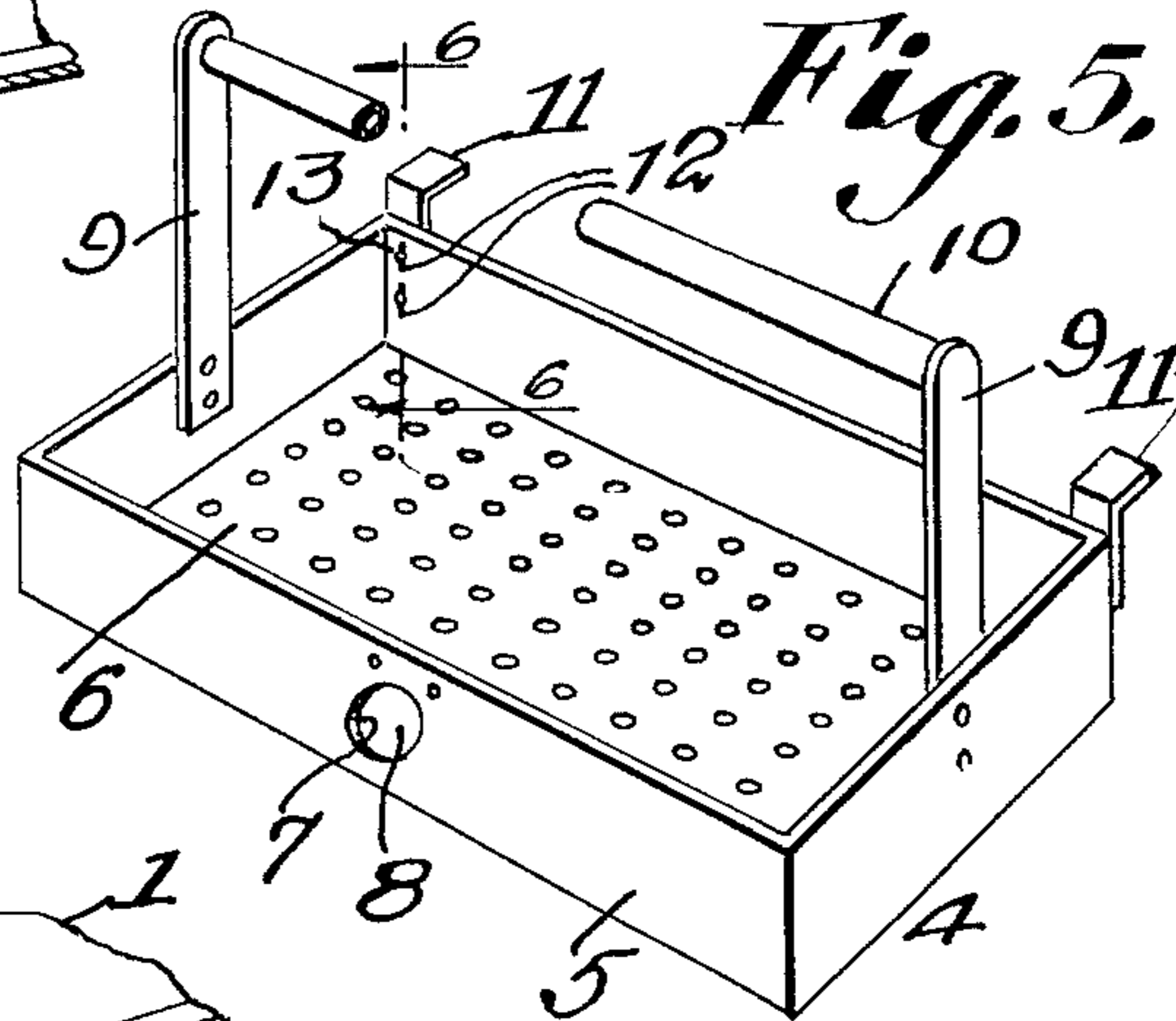
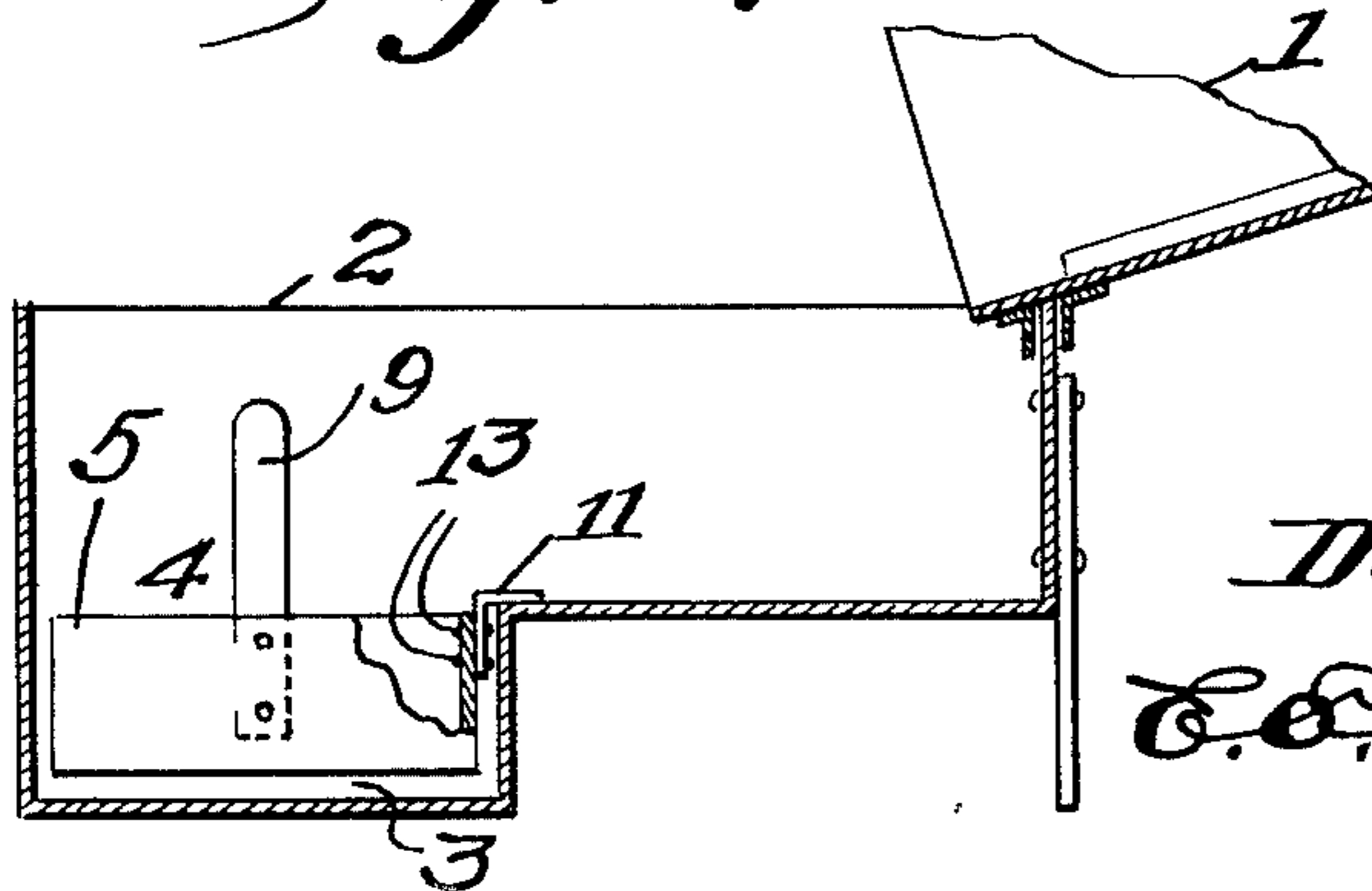


Fig. 4.



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UNITED STATES PATENT OFFICE

1,961,562

SPRINKLER FOR AN AUTOMATIC BEE-COMB FILLER

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Original application January 2, 1932, Serial No. 584,488. Divided and this application September 23, 1932, Serial No. 634,585

3 Claims. (Cl. 299—102)

This invention relates to a sprinkler for an automatic bee-comb filler.

An object of my invention is the construction of a simple and efficient sprinkler used in the construction of my entire apparatus, which is fully explained in my United States Patent No. 1,885,030, issued October 25, 1932, of which this application is a division.

Another object of my invention is the construction of a novel sprinkler for use in spraying or sprinkling the empty bee-combs, to fill same for feeding the bees.

With the foregoing and other objects in view, my invention comprises certain novel constructions, combinations and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawing, and more particularly pointed out in the appended claims.

In the drawing:

Figure 1 is a perspective view of a sprinkler constructed in accordance with the present invention, while

Figure 2 is a transverse vertical sectional view of the same.

Figure 3 is a transverse sectional view of the syrup tank, with a portion of the filling and draining pan or casing shown in section, and the sprinkler in end elevation.

Figure 4 is a view similar to Figure 3 showing partly in section and partly in end elevation another embodiment of the sprinkler, while

Figure 5 is an enlarged perspective view of the same.

Figure 6 is an enlarged sectional view taken on line 6—6, Fig. 5.

Referring to the drawing by numerals, 1 designates the filling and draining casing resting upon an edge of the syrup tank 2. The syrup tank 2 is provided with a pocket or compartment 3 in which the sprinkler 4 is placed, for filling the same with syrup.

The sprinkler 4 comprises an oblong body 5 which is provided with an apertured or perforated bottom 6. This bottom 6 allows the syrup to be quickly and thoroughly sprayed or sprinkled over the bee-combs. In one side of the body 5, I form a large aperture 7 which is normally closed by hinged or flap valve 8. When the sprinkler is placed down in the compartment 3 of syrup tank 2, the valved side allows it to be very quickly filled.

Flat uprights 9 are fastened at their lower ends inside of the body 5, so as to prevent any obstruction being on the outside of the ends of the body 5. A suitable grip 10 is attached to the upper

ends of the uprights 9; uprights 9 and grip 10 constitute the handle of the sprinkler.

If the compartment 3 of the syrup tank is made too deep, or if the operator desires to work rapidly with my sprinkler, to facilitate filling the empty combs, I may attach angle lugs 11 to one side of the body 5 (Figs. 4 and 5) which limit or prevent the body of the sprinkler sinking too far down in the compartment 3, because it is not necessary to have the sprinkler forced too far, as the flap valve 8 will begin to rise, for filling the body, as soon as the syrup begins to press against the same. At the place of attachment of each angle lug 11, two vertically aligned slots 12 are formed in which the fastening means 13, such as bolts or rivets are positioned; this fastening means 13 also extends through the angle lugs, whereby the lugs are adjustably fastened to the body 5, so that the depth to which the sprinkler may be sunk in the compartment 3 can be adjusted to a nicety, for excellent results.

In operation, the sprinkler 4 is lifted by the operator from the position shown in Figure 3 and then moved to between the sides of the filling and draining casing 1 over the bottom thereof, allowing the syrup to be discharged through the perforated bottom of the sprinkler onto the empty combs or cells, filling the same. Then the combs are moved to a vertical position, and suspended in the casing 1, as specifically shown and described in my Patent No. 1,885,030, aforesaid.

While I have described the preferred embodiments of my invention and illustrated the same in the accompanying drawing, certain minor changes or alterations may appear to one skilled in the art to which this invention relates during the extensive manufacture of the same, and I, therefore, reserve the right to make such changes and alterations as shall fairly fall within the scope of the appended claims.

What I claim is:

1. As a new article of manufacture, a liquid-holding sprinkler for an automatic bee-comb filler, comprising an oblong body provided with a flat perforated bottom, said body provided with sides one of which having a large aperture, a flap valve hinged to the inside of said body above said aperture and adapted to close over said aperture, said valve adapted to be opened by the head of liquid outside the body when the latter is immersed in a body of liquid, uprights fastened to said body, and a grip mounted on said uprights.
2. A liquid-holding sprinkler for an automatic bee-comb filler, comprising a body provided with

a perforated bottom and with sides, one of said sides provided with sets of vertically-aligned slots, angle lugs against said slots, fastening means extending through said angle lugs and through said slots adjustably securing the angle lugs to said body, and a handle attached to said body.

3. As a new article of manufacture, a liquid-holding sprinkler for an automatic bee-comb filler, comprising a shallow oblong body provided with a perforated bottom, said body also provided with sides, one of which is flat, said flat side provided near each end with a pair of vertically aligned slots, webless vertical lugs provided with right angled portions against said flat side and over said elongated slots, a right angled portion of each lug covering both slots in a pair, and bolts in said last mentioned right angled portion and in said elongated slots adjustably fastening said lug in a fixed position, substantially as shown and described.

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