

(No Model.)

A. GARTNER.

CHEMICAL RECEPTACLE FOR HOSE, SPRAYERS, AND SPRINKLERS.

No. 563,156.

Patented June 30, 1896.

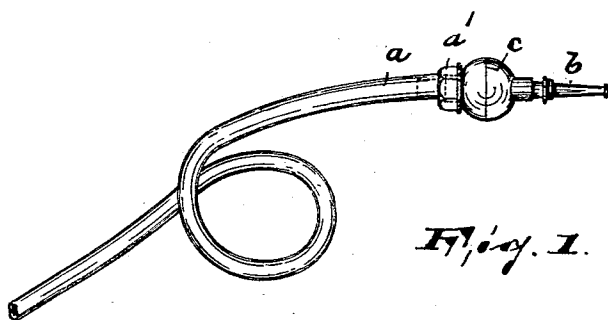


Fig. 1.

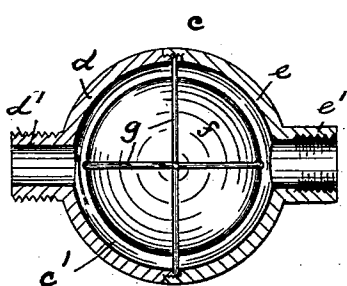


Fig. 2.

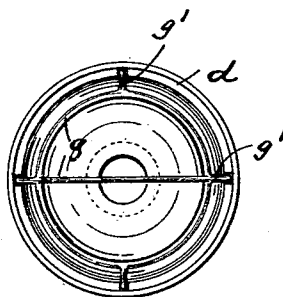


Fig. 3.

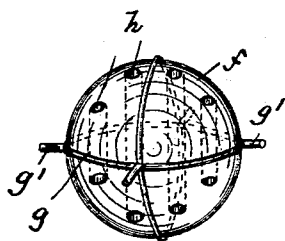


Fig. 4.

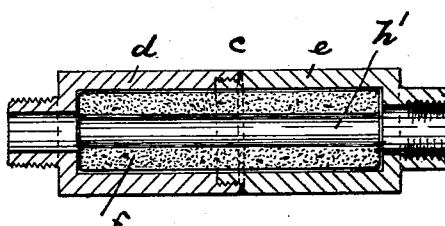


Fig. 5.

WITNESSES:

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UNITED STATES PATENT OFFICE.

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CHEMICAL-RECEPTACLE FOR HOSE, SPRAYERS, OR SPRINKLERS.

SPECIFICATION forming part of Letters Patent No. 563,156, dated June 30, 1896.

Application filed November 29, 1895. Serial No. 570,371. (No model.)

To all whom it may concern:

Be it known that I, ALFRED GARTNER, a citizen of the United States, residing in Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Chemical-Receptacles for Hose, Sprayers, or Sprinklers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my present invention is to provide simple means to be used in connection with sprinklers, sprayers, &c., for the purpose of keeping off and destroying insects—especially mosquitos—on lawns, trees, houses, &c., and also for the purpose of disinfecting rooms, houses, or garments; means to be used in connection with oils, perfumes, disinfectants, and other chemicals, applicable for the various respective purposes.

The invention consists in the improved receptacle, and in the means placed in said receptacle for the reception of oils, perfumes, disinfectants, or other chemicals.

The invention also consists in so mounting the means for the reception of the chemicals within the receptacle as to thoroughly expose it to the action of the water which passes through the receptacle, and in the combination and arrangement of the various parts, substantially as will be hereinafter more fully described, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a slight perspective view of a hose and nozzle provided with my improvement; Fig. 2, an enlarged central section through the intermediate receptacle; Fig. 3, a top plan view of the left-hand section of Fig. 2; Fig. 4, a perspective view of one style of saturating-ball adapted to be placed in the said receptacle, and Fig. 5 a modified form of my improvement.

In said drawings, *a* represents a portion of a hose to be used for sprinkling lawns, flowers, trees, &c., and *b* the nozzle. Between the end of the hose and the said nozzle or at any convenient intermediate point is arranged the hollow receptacle *c*, consisting, preferably, of two sections *d* and *e*, secured together by a screw-thread connection or in any desired manner, and which for more conveniently attaching them to the hose and nozzle are provided with necks *d'* and *e'*, adapted to engage the nut *a'* of hose *a* and the screw-threaded end of the nozzle *b*, respectively, as will be manifest. In said receptacle is arranged a ball *f*, made of cotton, wool, felt, or any other suitable material, and is preferably surrounded by a wire skeleton *g*, having projecting fingers *g'*, adapted to be clamped between the sections *d* and *e* and to thus hold the "ball" *f*—as I would term it—floating, approximately, in the center of the receptacle *c*, and to form with the latter a chamber or channel *c'*, as clearly shown in Fig. 2 of the drawings. For the purpose of increasing the surface to be exposed to the stream of water or fluid forced through the hose and receptacle, the ball *f* may be provided with a series of transverse channels *h*, as illustrated in Fig. 4.

In the modified form shown in Fig. 5 the receptacle *c* is cylindrical in shape and contains a similarly-shaped block or core *f*, made out of any of the above-mentioned materials. Said block or core is provided with a central transverse channel *h*.

The ball or block *f* is adapted to receive and be saturated with oils, perfumes, disinfectants, &c., according to whatever purpose the same is to be applied.

For sprinkling the lawn, trees, flowers, &c., the ball or block *f* is saturated with common kerosene oil, of which latter when water is forced through the said receptacle very small particles are constantly carried away with the water, and thus a very small quantity is spread or sprinkled over a very large area of ground. The odor of this comparatively small amount of kerosene deposited on the lawn, &c., is not perceptible to human beings, and yet—as experiments have proved—is sufficient to keep away mosquitos and other in-

sects and to destroy their chrysalis, while on the other hand the kerosene does not spoil, damage, or harm the grass, flowers, or trees.

When used for disinfecting purposes, the
5 ball or block *f* is saturated with carbolic acid, sublimate of mercury, or other antiseptics or disinfectants and is then connected with a sprayer or sprinkler, as will be manifest.

I do not intend to limit myself to the precise construction shown and described, nor to the particular uses to which the device is applicable, as various alterations can be made without changing the scope of my invention; but

15 What I claim as new, and desire to secure by Letters Patent, is—

1. A receptacle provided with means for detachably securing the same to any intermediate point of a hose, sprinkler or sprayer
20 connection, and consisting of two sections, a ball or block of suitable material and provided with a series of parallel transverse channels, and freely suspended in said receptacle and forming with the latter a channel
25 or chamber completely surrounding said ball, and a specific chemical placed in and on said ball or block, all said parts, substantially as and for the purposes described.

2. A receptacle consisting of two sections,
30 detachably secured together, means on each section for detachably securing the receptacle at any intermediate point of a hose, sprinkler or sprayer connection, a ball or block of suitable material and adapted to receive
35 chemicals or other compositions, freely suspended in said receptacle and forming with the latter a channel or chamber, completely surrounding said ball or block and means for freely suspending said ball or block in said
40 receptacle, substantially as and for the purposes described.

3. A receptacle consisting of two sections detachably secured together, means on each

section for detachably securing the receptacle at any intermediate point of a hose,
45 sprinkler or sprayer connection, a ball or block of suitable material and saturated with chemicals, freely suspended in said receptacle and forming with the latter a channel or chamber, completely surrounding said ball
50 or block, and a wire skeleton or frame secured to the said ball or block and provided with projecting fingers adapted to be clamped between the two sections of the receptacle, all said parts, arranged substantially as and for
55 the purposes described.

4. A receptacle provided with means for securing the same at any intermediate point of piping, a ball or block of suitable material adapted to receive chemicals or other
60 compositions and included by said receptacle, the space between said ball or block and the receptacle being uniform, and means for freely suspending said ball within said receptacle, substantially as and for the purposes
65 set forth.

5. A receptacle consisting of two interdetachably-secured sections and provided with means for securing at any intermediate point of a hose, sprinkler or sprayer connection, a
70 ball or block included by said receptacle and adapted to receive chemicals or other compositions, and a skeleton loosely suspending the ball within the receptacle clamped between said sections, said ball having parallel
75 transverse channels therethrough and a uniform space between it and the receptacle, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of
80 September, 1895.

ALFRED GARTNER.

Witnesses:

A. J. WALKER,
WM. D. BELL.