

No. 756,916.

PATENTED APR. 12, 1904.

A. VAN WINKLE.
FUMIGATOR.

APPLICATION FILED JULY 25, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

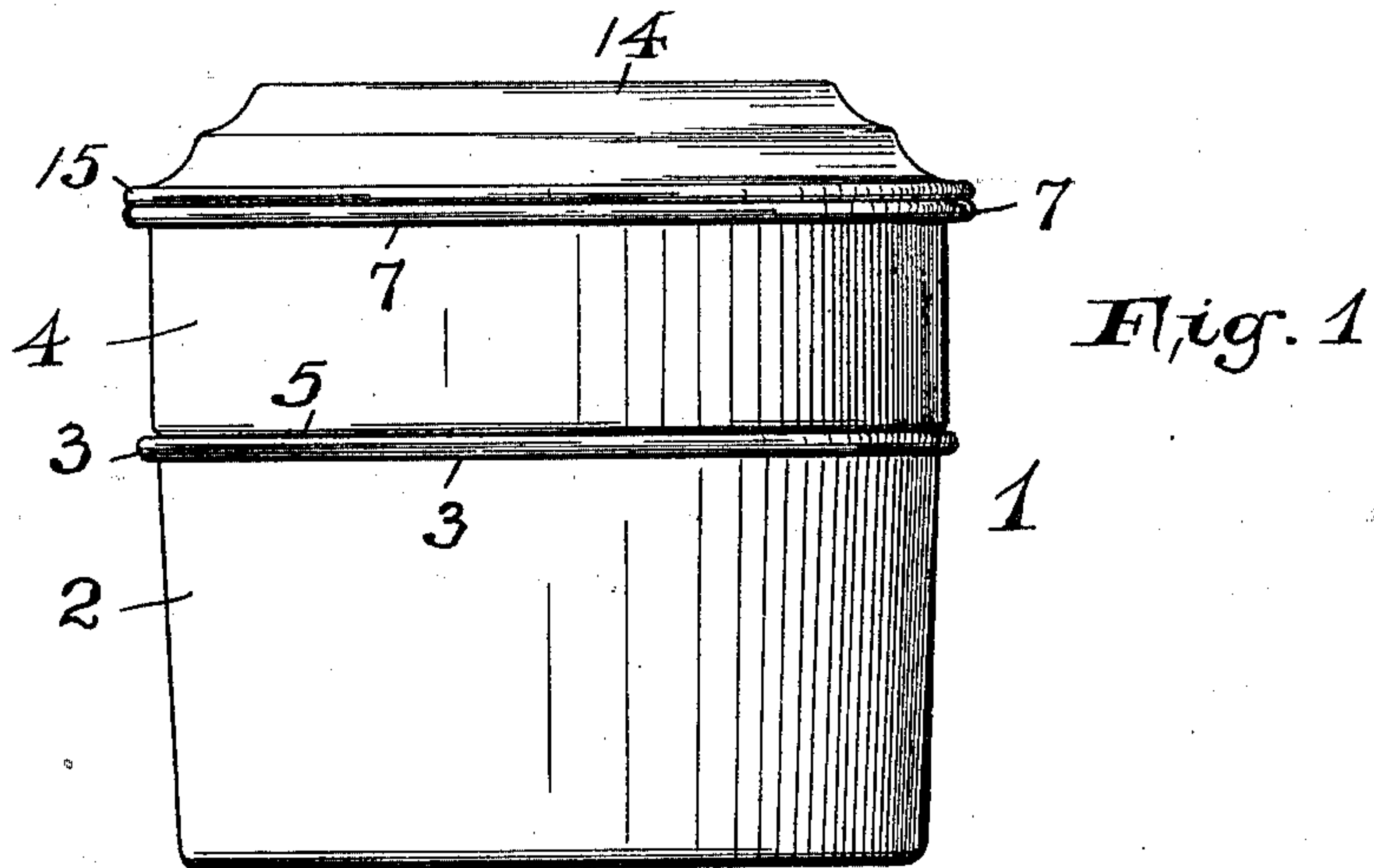


Fig. 1

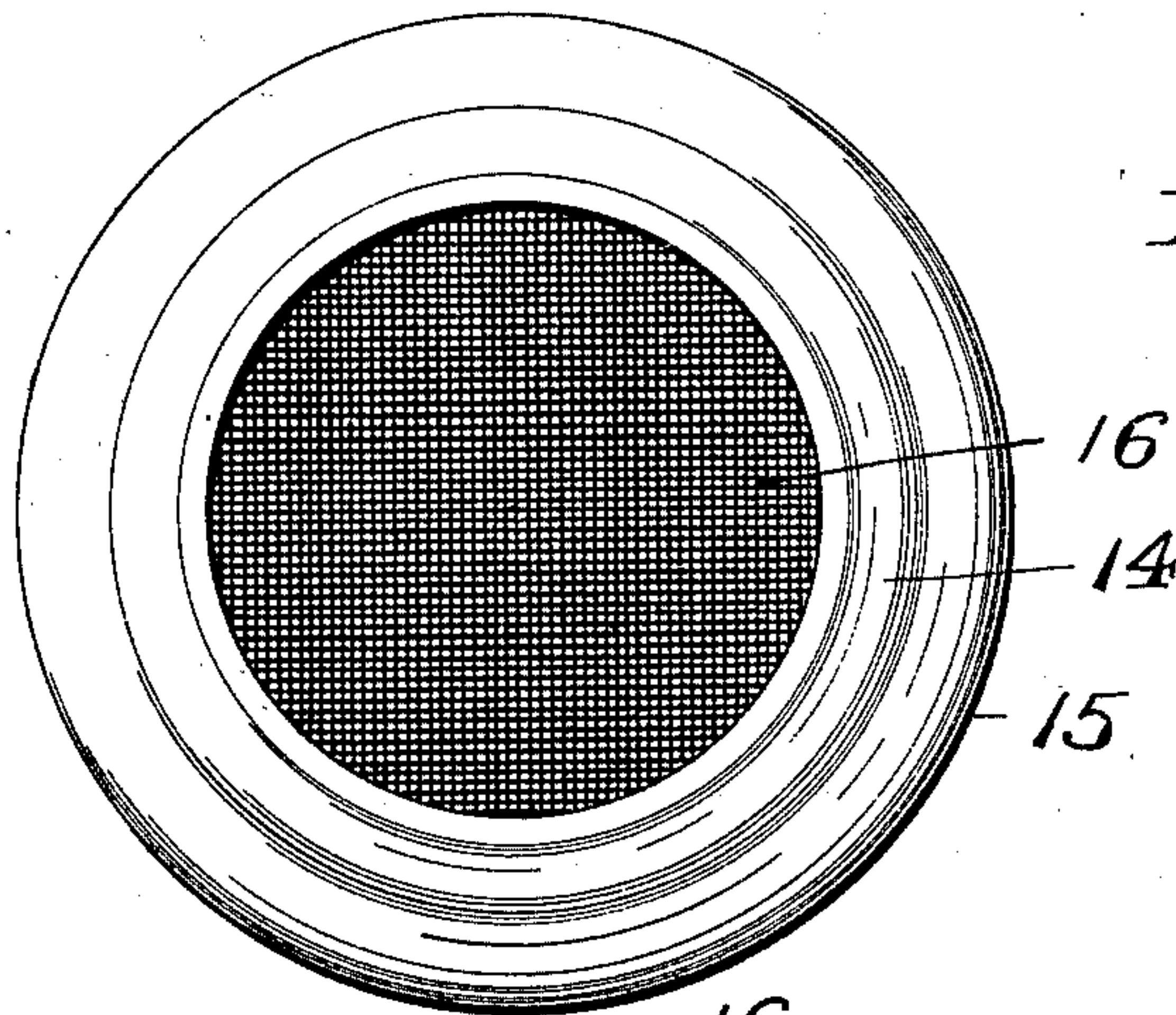


Fig. 2

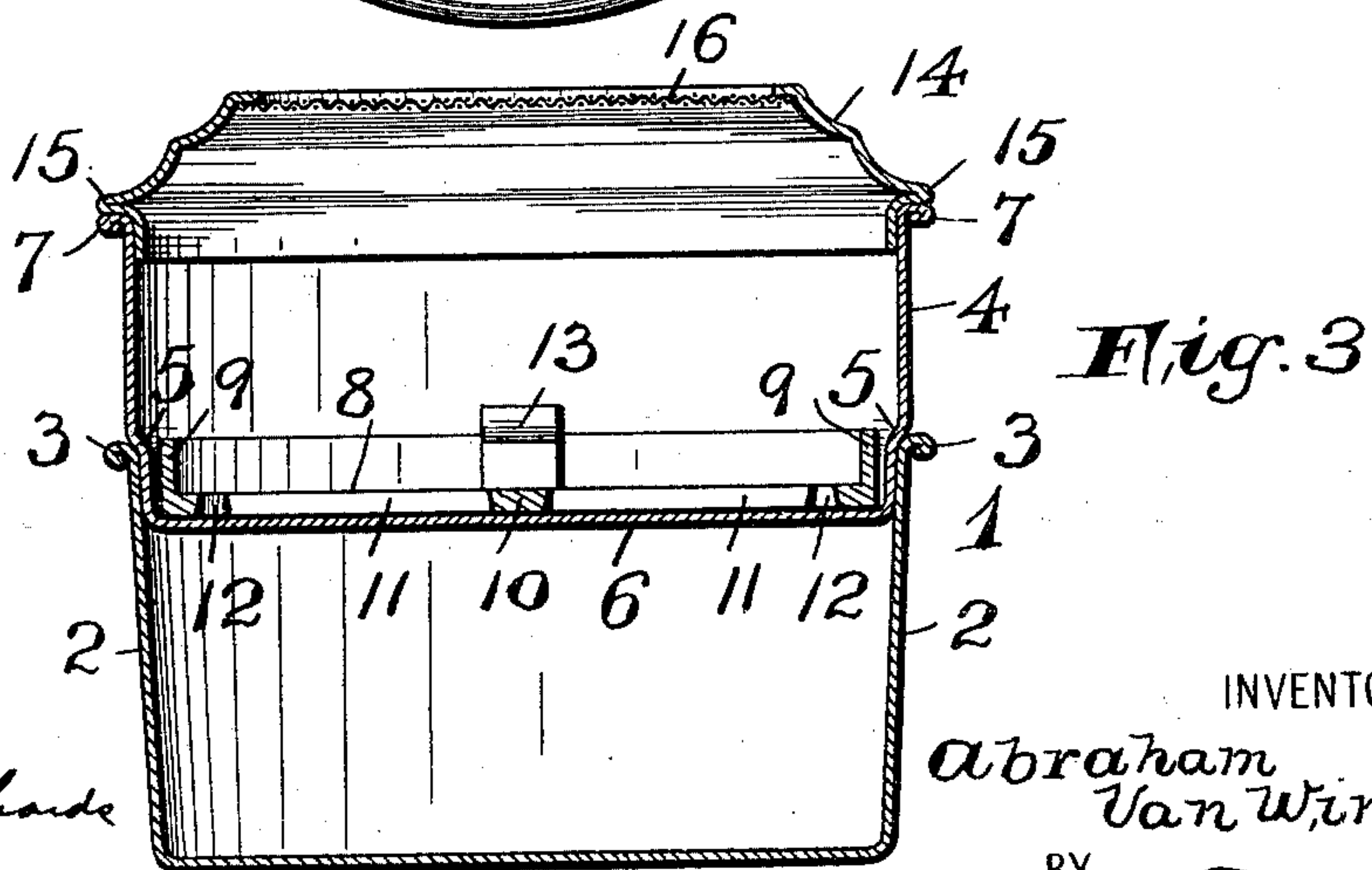


Fig. 3

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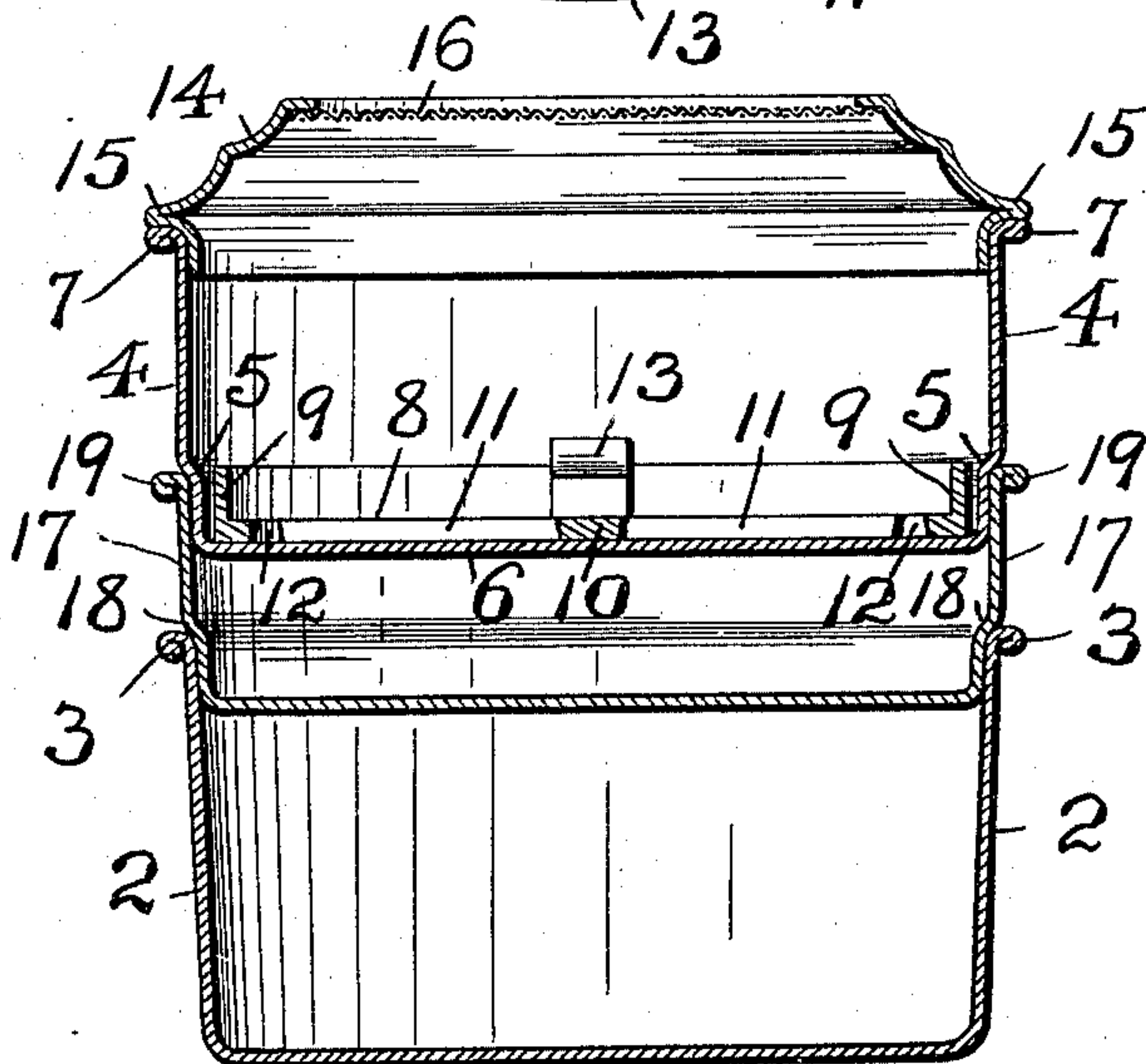
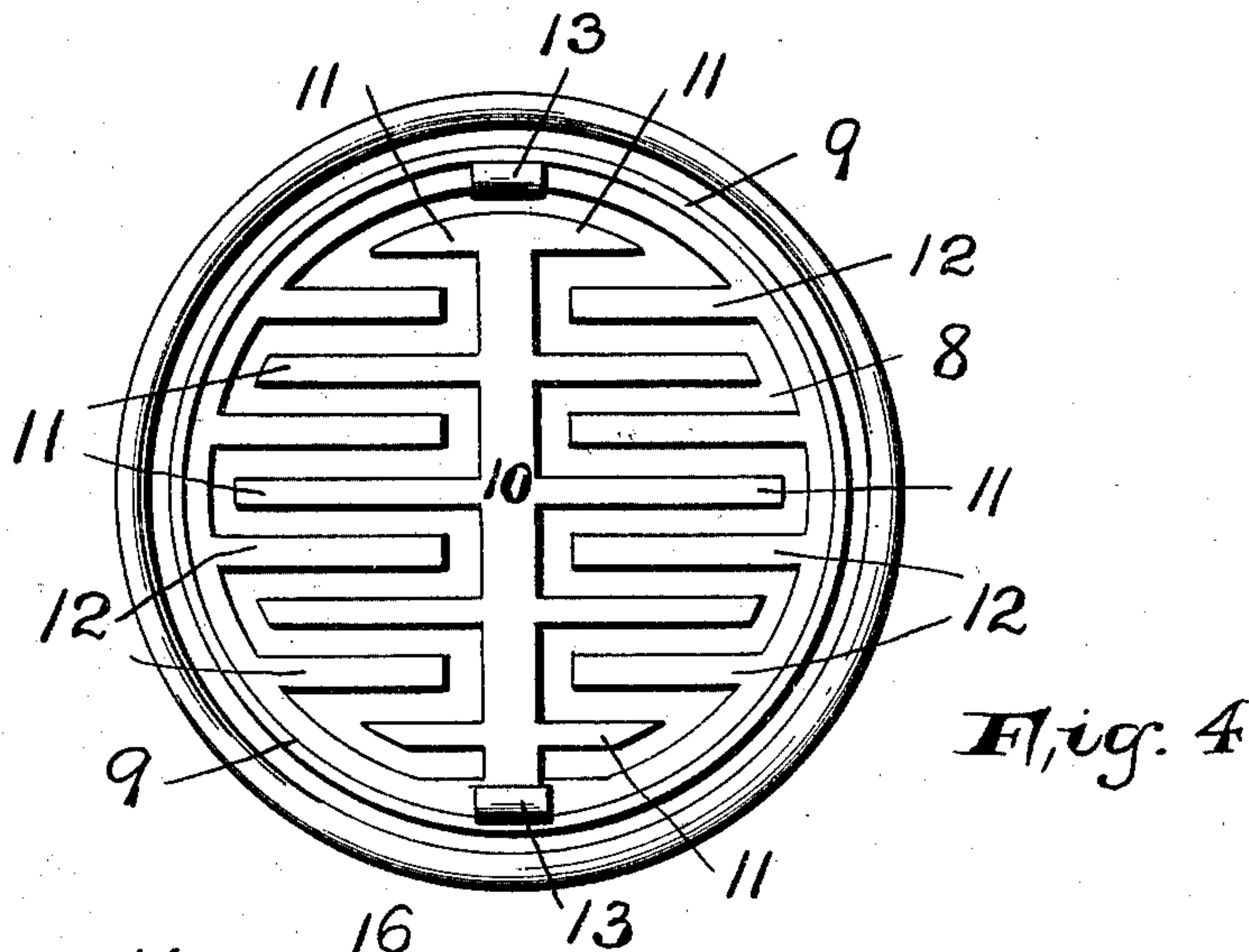
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UNITED STATES PATENT OFFICE.

ABRAHAM VAN WINKLE, OF NEWARK, NEW JERSEY.

FUMIGATOR.

SPECIFICATION forming part of Letters Patent No. 756,916, dated April 12, 1904.

Application filed July 25, 1903. Serial No. 166,946. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM VAN WINKLE, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Incense-Burners or Fumigators; 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 numerals of reference marked thereon, which form a part of this specification.

My present invention has reference to a novel construction of incense-burner or fumigator comprising two or more separably-connected receptacles, made from sheet metal, one of which may be employed for the purpose of containing and storing the powder, and the uppermost receptacle, which is provided with a removable gauze cover, being employed for the purpose of spreading therein some of the powder which is to be ignited and then allowed to smolder slowly upon the bottom or base of the said receptacle.

The object of the present invention is to provide a simply and cheaply constructed apparatus or device which shall be of a neat appearance and which may be carried about while the ignited powder is smoldering to produce sufficient smoke and odor, which is objectionable to insects and especially so to mosquitos, but which is unobjectionable to mankind.

A further object of the present invention is to provide an apparatus or device of the character hereinafter set forth which is provided with a finely-meshed wire-gauze top or cover arranged to provide just sufficient draft to permit the slow consumption of the insect-powder and also to provide a device of a cylindrical shape whereby such device can be more readily carried in the pocket, if desired.

The invention consists, therefore, in the novel incense-burner or fumigator hereinafter set forth, and, furthermore, the present invention consists in the various arrangements and combinations of parts, all of which will be hereinafter more fully described and then

finally embodied in the clauses of the claim, which are appended to and form a part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which—

Figures 1 and 2 are a side elevation and a plan or top view, respectively, of the device embodying the principles of the present invention; and Fig. 3 is a transverse vertical section of the same. Fig. 4 is a plan or top view of the device with the gauze cover or top removed, illustrating an arrangement of a removable matrix or pattern employed with the device for forming the powder which is to be ignited and consumed in a peculiar maze-like arrangement upon the bottom or base of the upper receptacle. Fig. 5 is a transverse vertical section of a slightly-modified form of incense-burner or fumigator, but still embodying the principles of this invention.

Similar characters of reference are employed in all of the said above-described views to indicate corresponding parts.

Referring now to the said drawings, the reference character 1 indicates the complete device, the same being preferably made of any suitable sheet metal spun into cylindrical shape, as illustrated.

The device comprises a lower receptacle 2 for the reception and storing therein of an insect-powder, the said receptacle being surrounded at its open top by a marginal bead 3, as clearly illustrated. Resting upon this bead 3 is an annular projection 5 of another receptacle 4, having a bottom or base 6 and a marginal bead 7 surrounding the upper open portion of this receptacle. From an inspection of Fig. 3 it will be seen that this receptacle 4 is removably arranged upon the bead 3 of the receptacle 2 and the two receptacles can be separated from each other when necessary for the placing of a matrix or pattern upon the base or bottom 6 of the receptacle 4 and for the purpose of spreading the insect-powder in its form desired upon said base or bottom. This said matrix or pattern 8 is removably arranged upon the said bottom or base 6 and may be of any desired construction. This matrix or pattern is preferably made with a ring-shaped marginal member 9, from which

extends a diametrically-projecting bar 10, provided on opposite edges with laterally-extending fingers or arms 11, between which are arranged other fingers or arms 12, extending from the inner marginal edge of the rim or member 9, as clearly illustrated in Fig. 4 of the drawings. The said rim or member 9 is also provided with suitably-disposed lifts or handle portions 13 for withdrawing the matrix or pattern 8 from the receptacle 4 after the powder has been arranged in the open spaces formed between the various arms or fingers 11 and 12 of the matrix or pattern and after having been packed in place by the use of a suitable instrument, such as a spoon, pestle, or the like. Resting upon the marginal bead 7 of the said receptacle 4 is an annular flange 15 of a cover 14, the said cover being of any suitable configuration and having a wire-gauze top or covering 16, as clearly illustrated. It will be clearly understood, however, that I do not intend to limit myself to the general shape of this cover and its wire-gauze netting, nor do I intend to confine myself to the exact shape and arrangement of the bar 10 and arms or fingers 11 and 12 of the matrix or pattern, for any other suitable arrangement of bars and arms may be used, if desired, whereby variously-arranged lines of insect-powder, according to the length of the line desired and according to the time required for a lengthy consumption of the powder, thus arranged in the form of a maze upon the base or bottom 6 of the receptacle 4 after the matrix or pattern 8 has been withdrawn. That the said matrix or pattern 8 can readily be removed from the powder which has been rammed between its bar 10 and the arms or fingers 11 and 12, the marginal edges of these parts are made to taper in downward directions, as clearly shown in the drawings.

Instead of placing the upper receptacle 4 directly upon the bead 3 of the lower receptacle 2 another receptacle, as 17, having an annular shoulder 18 and an annular bead 19, may be placed upon the bead 3 of the receptacle 2, and the upper receptacle 4 may be made to rest upon the bead 19 of the intermediate receptacle 17, as clearly illustrated in Fig. 5 of the drawings. Where this receptacle 17 is used, the same answers the purpose of storing therein the previously-mentioned tool, such as a spoon for lifting the insect-powder from the lower receptacle 2 to deposit it in the spaces formed between the arms or fingers 11 and 12 and the bar 10 of the matrix or pattern 8 and the pestle or the like for ramming the powder in place between the said parts of the matrix or pattern.

After the matrix or pattern 8 has been removed the maze-like arrangement of the insect-powder formed upon the bottom or base of the upper receptacle is ignited at the one end thereof and the gauze-covered cover replaced upon the upper part of the upper re-

ceptacle. The gauze-covered part of the cover allows just sufficient air to enter the upper receptacle that the ignited powder will smolder and will be slowly consumed from one end of the maze of powder to the other end thereof, its odor and smoke escaping through the wire screen or gauze of the top of the device, and thereby driving off all objectionable insects that fly about in the air, such as mosquitos, flies, and the like.

Slight modifications may be made in the various arrangements and combinations of the parts comprising the device without departing from the scope of the present invention. Hence I do not limit my invention to the precise arrangements and combinations of the parts, nor do I confine myself to the exact details of the construction of the same.

Having thus described my invention, what I claim is—

1. An incense-burner or fumigator, comprising, a lower receptacle adapted to contain a powder, an upper receptacle detachably arranged upon said lower receptacle, a matrix or pattern in said upper receptacle arranged therein for forming some of the powder in maze form in said upper receptacle, and a cover on said upper receptacle provided with a wire-gauze covered opening, substantially as and for the purposes set forth.

2. An incense-burner or fumigator, comprising, a lower cylindrical receptacle having an annular bead, an upper cylindrical receptacle having an annular shoulder resting upon said bead of the lower receptacle, and an annular bead surrounding the open portion of said upper receptacle, said receptacles being detachably connected one with the other, a circular matrix or pattern removably arranged in said upper receptacle, and a cover on said upper receptacle provided with air-openings, substantially as and for the purposes set forth.

3. An incense-burner or fumigator, comprising, a lower cylindrical receptacle having an annular bead, an upper cylindrical receptacle having an annular shoulder resting upon said bead of the lower receptacle, and an annular bead surrounding the open portion of said upper receptacle, said receptacles being detachably connected with each other, a circular matrix or pattern removably arranged in said upper receptacle, a cover on said upper receptacle provided with an opening, and a wire-gauze covering over said opening, substantially as and for the purposes set forth.

4. An incense-burner or fumigator, comprising, a lower cylindrical receptacle having an annular bead, an upper cylindrical receptacle having an annular shoulder resting upon said bead of the lower receptacle, and an annular bead surrounding the open portion of said upper receptacle, said receptacles being detachably connected with each other, a circular matrix or pattern removably arranged in said upper receptacle, comprising, a marginal rim, a

diametrically - extending bar connected with said rim, laterally-extending arms at the opposite edges of said bar, and arms projecting from said rim and extending between the arms of said diametrical bar, and a cover on said upper receptacle provided with air - openings, substantially as and for the purposes set forth.

5. An incense-burner or fumigator, comprising, a lower cylindrical receptacle having an annular bead, an upper cylindrical receptacle having an annular shoulder resting upon said bead of the lower receptacle, and an annular bead surrounding the open portion of said upper receptacle, said receptacles being detachably connected with each other, a circular matrix or pattern removably arranged in said up-

per receptacle, comprising, a marginal rim, a diametrically - extending bar connected with said rim, laterally-extending arms at the opposite edges of said bar, and arms projecting from said rim and extending between the arms of said diametrical bar, a cover on said upper receptacle provided with an opening, and a wire-gauze covering over said opening, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 22d day of July, 1903.

ABRAHAM VAN WINKLE.

Witnesses:

FREDK. C. FRAENTZEL,
SAMUEL S. PRIDHAM.