

No. 843,260.

PATENTED FEB. 5, 1907

W. H. CLOUD.
BATHING APPARATUS.
APPLICATION FILED NOV. 1, 1905.

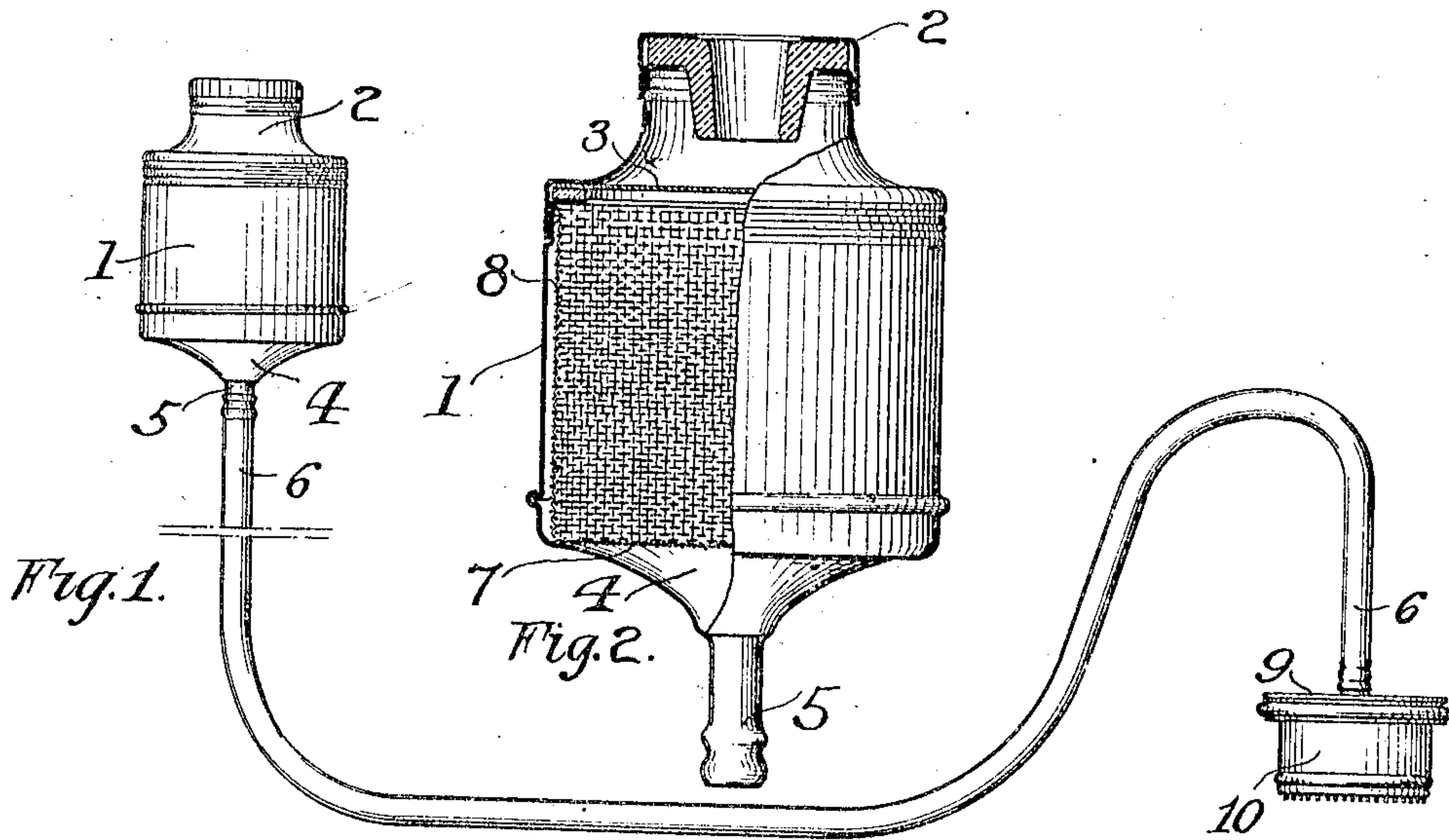


Fig. 4.

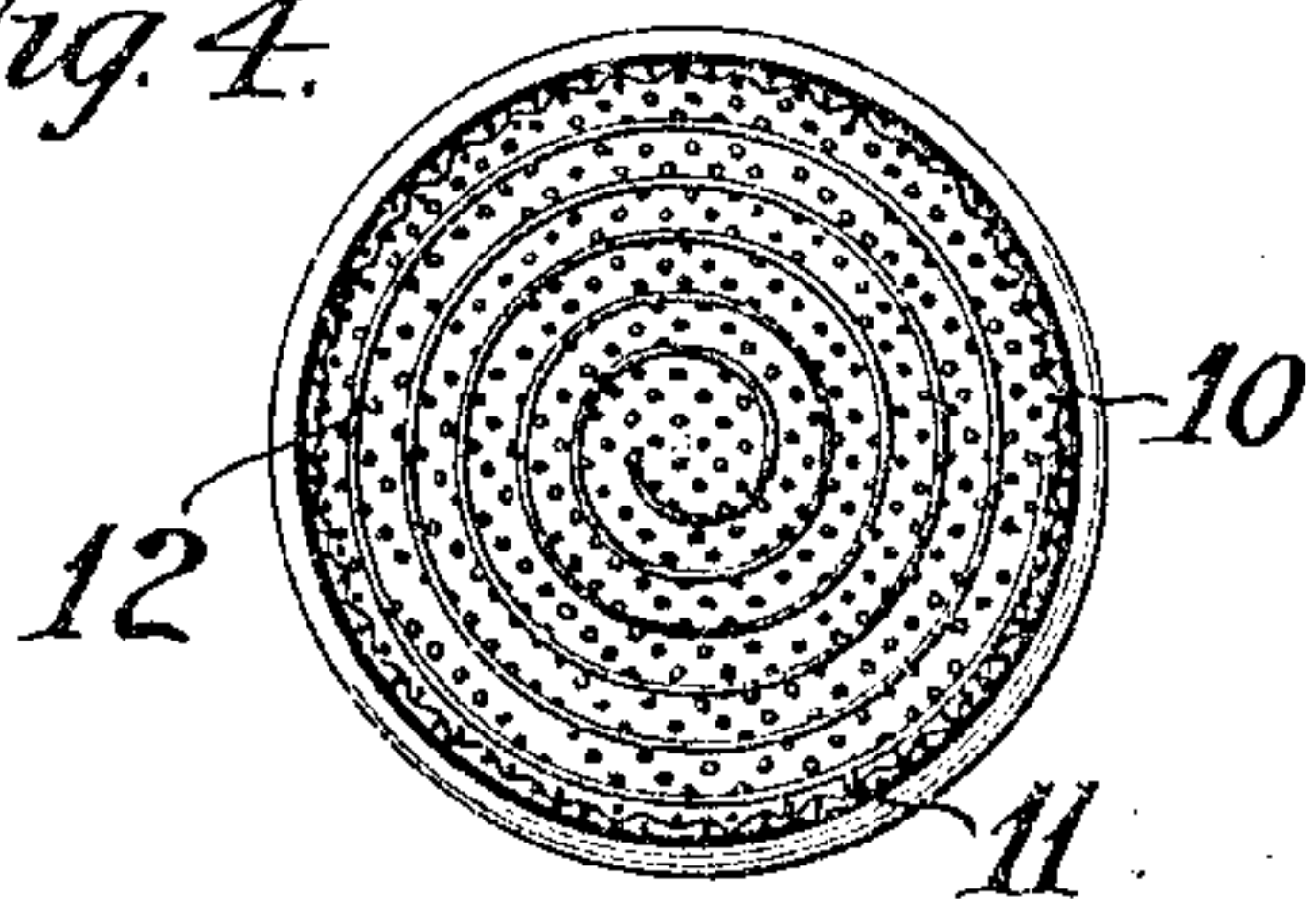


Fig. 6

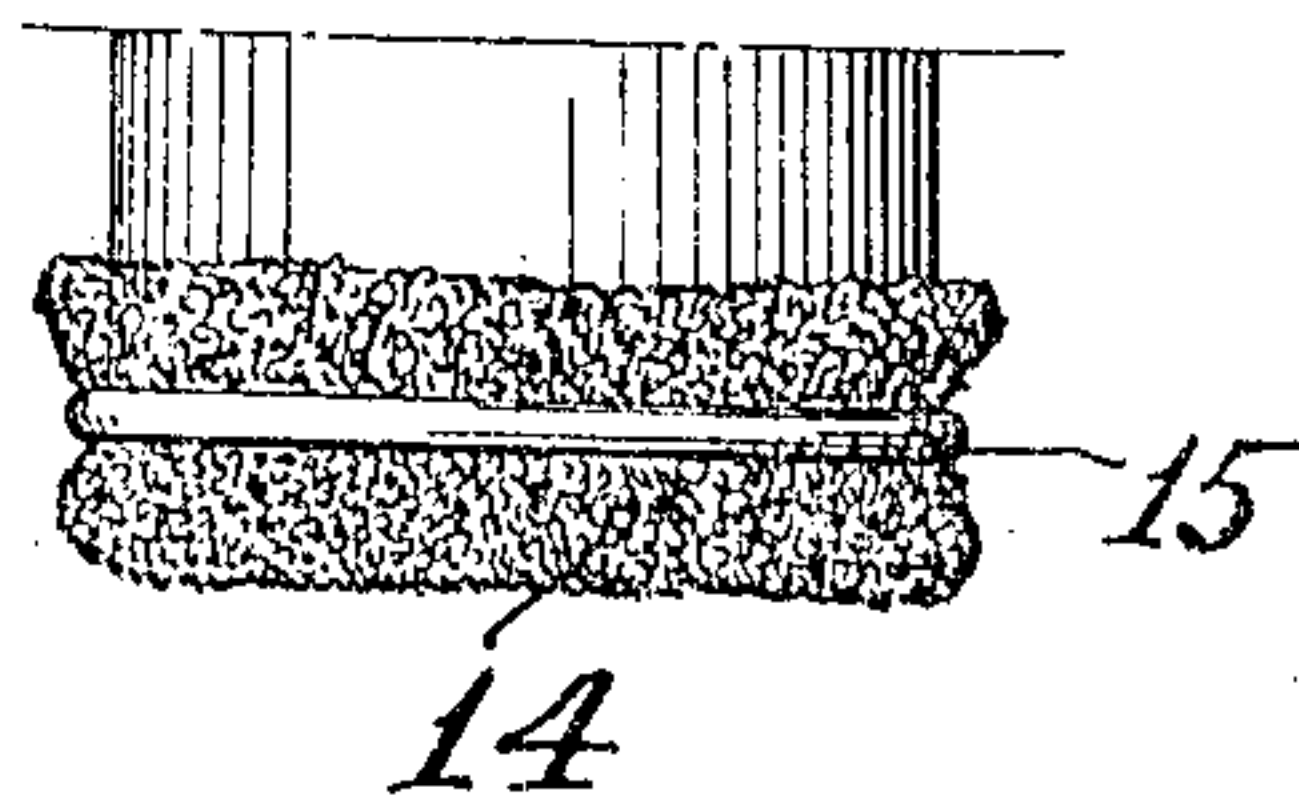


Fig. 3.

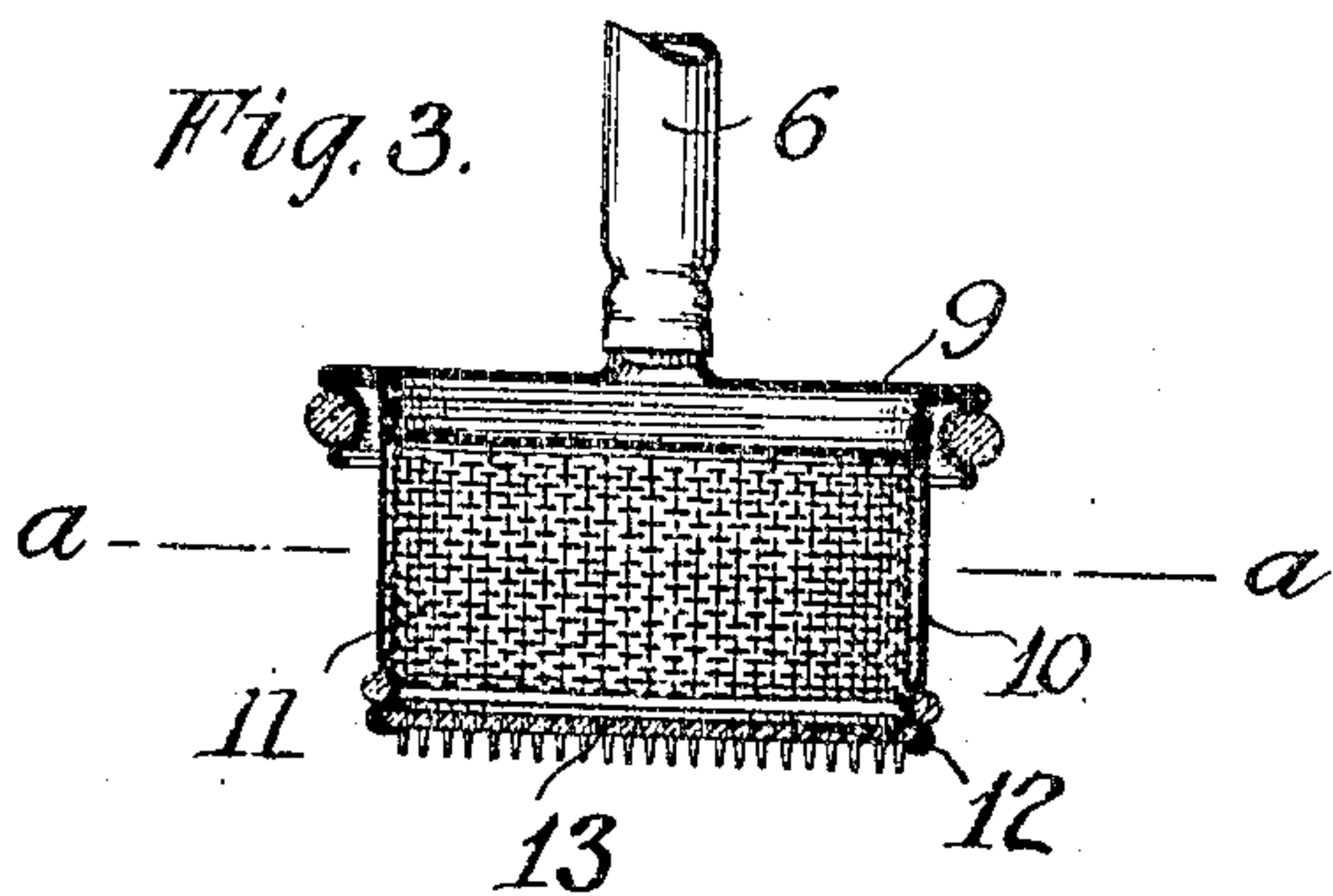
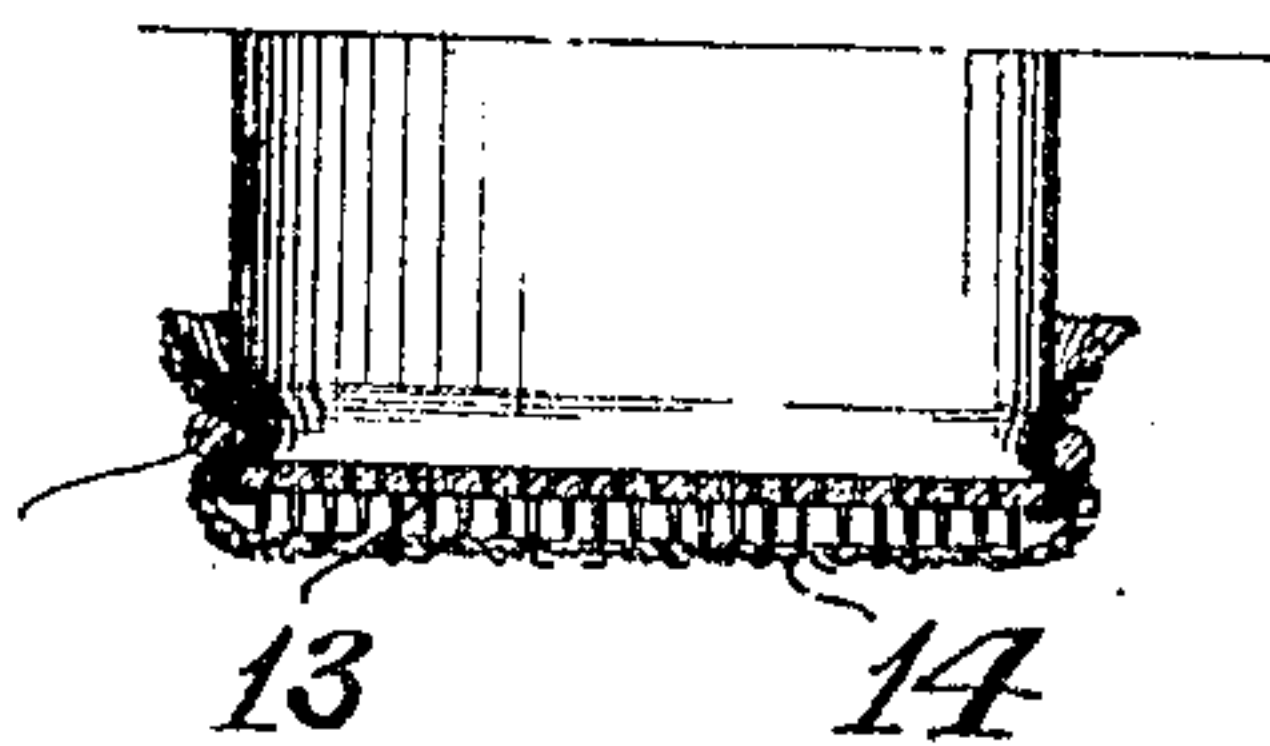


Fig. 5.



Witnesses:
R. Schleicher
Walter S. Bowling

Inventor:
By William H. Cloud
Warren E. Willis.
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM H. CLOUD, OF PHILADELPHIA, PENNSLYVANIA.

BATHING APPARATUS.

No. 843,260.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed November 1, 1905. Serial No. 285,456.

To all whom it may concern:

Be it known that I, WILLIAM H. CLOUD, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Bathing Apparatus, of which the following is a specification.

This invention relates to improvements in bathing apparatus, and particularly to that kind in which a stream of water is caused to separate and emerge in a fine shower or spray.

The objects of the invention are, first, to provide means in such apparatus whereby the water is brought into intimate contact with desirable cleansing agents or other slowly-soluble matter before delivery; second, to provide means whereby water may be treated with saponaceous, detergent, medicament, or perfume matter and immediately delivered while so charged; third, to provide means whereby the delivery may be direct in such spray form or through renewable textile fabrics adapted to contact with the body to be used as a flesh-brush; fourth, to provide means whereby the apparatus may be firmly but detachably secured to any suitable source of water-supply. These and minor other objects are attained by the novel device hereinafter fully described and shown in the accompanying drawings, in which—

Figure 1 is a general view showing my device with connecting-hose attached. Fig. 2 is a side view, partially in section, of the stationary receiving and mixing chamber drawn to an enlarged scale. Fig. 3 is a sectional view of the delivery-chamber. Fig. 4 is a sectional view taken on line *a a* of Fig. 3. Fig. 5 is a vertical section of the same, showing a wash-cloth attached; and Fig. 6 is a side elevation of the delivery-chamber.

In the drawings, 1 designates a cylindrical body or casing having a head 2 removably secured to it, the same being adapted to connect with any convenient source of water-supply. Within the lower part of the head, immediately above the walls of the casing, is secured a perforated plate 3 in such manner that all the water passing through the apparatus must pass through these perforations. At the lower end of the casing is another head 4. It is substantially conical in shape, the lower end terminating in a nozzle 5 of suitable shape to receive a connecting-hose 6. Within the cylindrical casing and resting on the upper part of the head 4 is a second per-

forated plate 7, which may preferably be coarse-meshed grating, and loosely fitting the interior of the cylindrical casing is a secondary cylinder 8, likewise, in the form of a net or grate.

From the foregoing it will be readily understood that water entering at the upper part of the apparatus will be diverted and broken up into minute streams or spray by the plate 3, through which it must pass. On its further course it must necessarily impinge upon whatever substance may be contained on the lower plate 7 and within the inner cylinder 8. If the substance be of soluble nature, as a suitable bar of soap or other desirable matter, the water will gradually dissolve it, taking a portion in solution in its passage over and around it, delivering the same in a combined stream at the nozzle 5. It may be further noticed that the arrangement is such that whatever substance is placed on the lower perforated plate is subjected to the action of the water on all sides.

Leading from the nozzle 5 is a section of flexible hose 6, attached to its other end to the top 9 of the delivery-chamber 10, to which it is removably secured. This delivery-chamber is similarly constructed, consisting of the outer wall or casing 10 and an inner perforated wall-lining 11. At the lower end of the chamber 10, removably secured to the walls of the chamber 10, is a helically-coiled wire spring 12, adapted to support and maintain at a slight distance above the perforated rubber brush 13 whatever substance may be placed upon it and to allow an uninterrupted circulation of water about it; also, to form a flexible support for the rubber brush, so the same will conform to the surface of the body. The exterior lower walls of the chamber 10 are so fashioned as to receive the edges of a suitable rubber brush 13, having the usual depending projections and perforations. Suitable wash-cloths 14 can be secured to the lower part of the chamber 10 by an elastic band 15, the said wash-cloths overlying the rubber brush, which acts as a cushion thereto. The purpose of this delivery-chamber is to facilitate the complete mixing of the treated water with any further matter as a combined soap mixture and salt or a perfume. It further enables the operator to so manipulate the spray as to obtain the flow wherever it may be desired.

Having thus described my invention, what

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

1. In a bathing apparatus, the combination with a mixing-chamber having a perforate lining adapted to contain saponaceous or other supply, of a delivery-chamber connected thereto, perforate walls within the chamber, means therein to maintain matter subject to complete envelopment in the water and means to prevent clogging of the delivery-perforations, all substantially as shown and described.

2. In a bathing apparatus, the combination with a suitable casing having a perforate lining, of sustaining means therein adapted to retain saponaceous or other material, means for removably securing to the said casing flexible material adapted to receive and transmit the stream passing through the apparatus and of means for connecting the said apparatus to a supply source, all substantially as shown and described.

3. In a bathing apparatus, the combination with a mixing-chamber adapted to receive a stream of water, of means therein to form a spray therefrom, means for retaining matter in said chamber, until dissolved and means for delivering the solution; a secondary or delivery chamber, means therein for effecting a further combination of matter with the solution, means of connection between the mixing and delivery chamber, means for uttering the solution in a spray and means for enveloping or muzzling the said spray, all substantially as shown and described.

4. In a bathing apparatus, the combination with a receiving-chamber, having suitable inlet and outlet connections and adapted to be attached to a source of supply of water, of a perforate lining therein entirely surrounding the interior, a lower cover removably secured thereto, a delivery-chamber, means of connection between the receiving and delivery chambers, a perforate cap and perforate side walls within the delivery-chamber attached therein, a helically-coiled spring at the open bottom, said spring form-

ing a seat for substance placed within the chamber and an apertured rubber brush attached to the outer walls of said delivery-chamber below said spring, all substantially as shown and described.

5. In a bathing apparatus, the combination with a fixed receiving-chamber adapted to contain saponaceous or other soluble matter in such manner as to be surrounded by water, means whereby the water is sprayed on the said substance causing effective dissolution thereof, a second or delivery chamber flexibly connected with the first, means for such connection, means within the delivery-chamber adapted to contain other soluble matter, means for spraying the educt from the first chamber upon the contents of the second chamber, means for discharging the combined solutions in the form of spray and means for baffling said discharge, all substantially as shown and described.

6. In a bathing apparatus, the combination with a source of water-supply, of a hollow casing adapted to be attached to said source of supply, a detachable lower head to said casing, an apertured plate held in the casing near its upper end, an inner perforate cylinder within the casing forming a lining thereto, a perforate bottom plate adapted to sustain substances placed thereon, the same being surrounded by water when in operation, an outlet at the extremity of the lower head, a secondary chamber, means of connection between the main and secondary chambers, perforate linings within the secondary chamber, means therein of support to substances within the secondary chamber and means of attachment thereto of suitable flexible brushes, all substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM H. CLOUD.

Witnesses:

WALTER S. BOWLING,
STEPHEN F. DOUGHERTY.