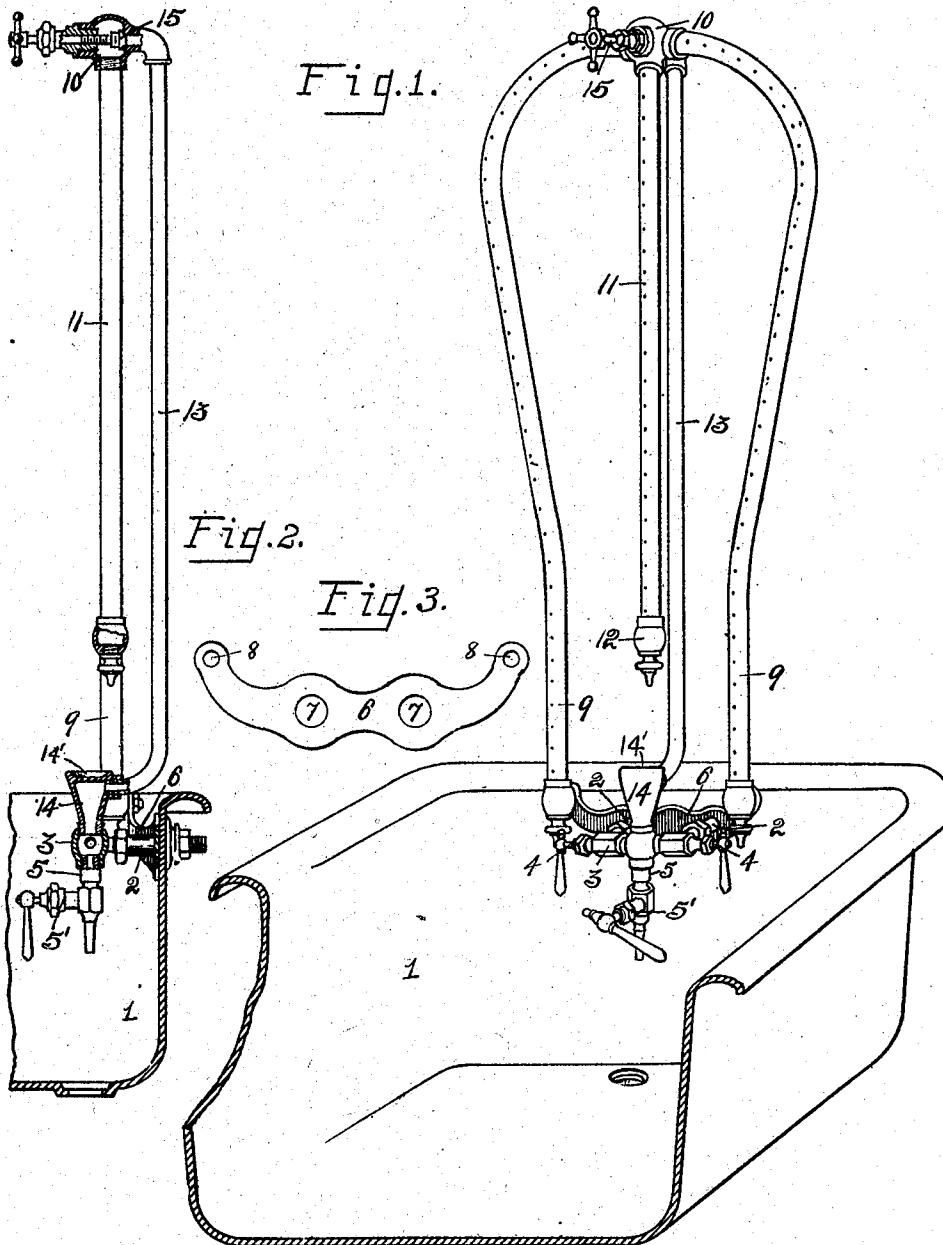


I. G. DIMOND.
NEEDLE SHOWER.
APPLICATION FILED JAN. 26, 1908.

924,602.

Patented June 8, 1909.



WITNESSES:

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UNITED STATES PATENT OFFICE.

IRVING G. DIMOND, OF TOLEDO, OHIO.

NEEDLE-SHOWER.

No. 924,602.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, IRVING G. DIMOND, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have invented a certain new and useful Needle-Shower; 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 the figures of reference marked thereon, which form a part of this specification.

My invention relates to needle spray or shower attachments for bath-tubs or the like; and has for its object the provision of a simple, cheap and improved apparatus of this class, which is adapted to be easily and quickly attached to the usual hot and cold water bath-tub fixtures and to be used in conjunction therewith to provide a needle spray or shower when the supply cocks are opened.

The operation, construction and arrangement of the parts of the invention are fully described in the following specification and illustrated in the accompanying drawings, in which,—

Figure 1 is a perspective view of the apparatus embodying my invention in association with a bath-tub. Fig. 2 is a side elevation thereof in central vertical section, and Fig. 3 is a front view of the bracket or supporting-plate for the shower attachment.

Referring to the drawings, 1 designates a bath-tub of any desired character, which has the usual hot and cold water-pipes 2, 2 passed through the end or side of the tub within the same. A combination bath-tub fixture 3, having the valves 4, 4 for hot and cold water, is connected to the ends of the pipes 2, 2 in the usual or any suitable manner, and has a common tub discharge nipple 5 which is provided with a valve 5' to enable it to be closed when the shower is in operation.

Supported by the pipes 2, 2 is the horizontal plate or bracket 6, which is provided intermediate its ends with the holes 7, 7 through which said pipes pass, and at its ends with the holes 8, 8 to which the lower ends of the needle spray pipes 9, 9 are bolted or otherwise suitably secured. The plate 6 is preferably bowed longitudinally thereof to adapt its central portion to abut against the tub end and its end portions to project

inwardly from the tub end whereby to support the spray-pipes 9, 9 in horizontally spaced relation to the tub end, as shown. The spray-pipes 9, 9 preferably bend slightly outwardly as they ascend, and are contracted at their upper ends to connect with a four-way union 10 at opposite sides thereof, as shown. A pendent needle spray pipe 11 connects at its upper end with the under side of the union 10 and has its lower end terminating above the tub-fixture 3 and closed by a plug 12, as shown.

Water is supplied to the union 10 to feed the spray-pipes 9, 9 and 11 through the supply-pipe 13, which has its upper end connected to the rear of the union and its lower end tapped into the rear of the hollow head 14, which is provided on the top of the mixing-chamber of the fixture 3, thus causing the water to enter the head 14 and pass through the supply-pipe 13 to the spray-pipes 9, 9 and 11 when the valves 4, 4, or either of them are open and the valve 5 closed. The head 14 is tapped into or otherwise suitably threaded to the top of the mixing-chamber of the fixture 3. When the fixture is provided on its top with a soap-cup, as is usually the case, this is removed and the hole into which its stem is screwed enlarged and bored through into communication with the central portion of the fixture to adapt it to receive the neck of the head 14. This head may have its top concaved, if desired, as shown at 14', to adapt it to serve both as a water-head and either a soap or sponge cup. A valve 15 controls the admission of water from the supply-pipe 13 to the union 10.

It is apparent from the foregoing that I have provided a simple and efficient form of needle spray or shower apparatus, which is adapted to be easily and quickly attached to the customary bath-tub fixture, and which is supported in a strong and simple manner within the tub by the cooperating action of the bracket-plate 6 and the hot and cold water-pipes 2, 2 without necessitating the injuring of the tub by the boring of holes for the reception of supporting bolts or the like, and that the attaching of the shower to the fixture does not interfere in any way with the ordinary use of the same to discharge water into the tub for the purpose of a plunge bath.

I wish it understood that I do not desire to be restricted to the particular arrangement and construction of the parts shown and de-

scribed, as obvious modifications will occur to persons skilled in the art.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is,—

1. The combination with the hot and cold water pipes in a bath-tub, and the combination fixture attached thereto, of a bracket carried by said pipes within the tub, and a
10 needle shower having perforated arms attached at their lower ends directly to said bracket.

2. The combination with the hot and cold water pipes in a bath tub, and the combination
15 fixture attached thereto, of a bracket carried by said pipes within the tub, and a needle shower having perforated pendent arms attached at their lower ends to the bracket, whereby to support the shower, and
20 having its supply-pipe in communication with the mixing-chamber of the fixture.

3. In a bath-tub, the combination with the hot and cold-water pipes, and the combination fixture attached thereto, of a
25 bracket carried by said pipes within the tub, an inverted U-shaped needle shower having its arm terminals attached to the opposite ends of said bracket, whereby to support the shower, and having its supply-pipe extending
30 upwardly from the mixing-chamber of the fixtures and in valve controlled communication with the spray arms of the shower.

4. The combination with a bath-tub and the hot and cold water pipes projecting in-
35 wardly through the wall thereof, of a bracket-plate apertured to receive said pipes and being longitudinally bowed to abut

against the tub wall at its central portion and have its ends projected inwardly from the tub wall, and a shower apparatus attached to
40 and supported by said plate.

5. In a bath-tub, the combination with the hot and cold water fixture therein, of a water-head secured to the top of the fixture in communication with its mixing-chamber,
45 said water-head having its top fashioned to form a soap or sponge cup, and a shower attachment having its supply-pipe tapped into said water-head.

6. In a bath-tub, the combination with
50 the hot and cold water pipes penetrating the wall of the tub, and the combination fixture attached thereto, of a bracket-plate secured to the water-pipes interiorly of the tub and having its terminals projecting
55 transversely of the pipes, a shower attachment comprising a union member, needle spray pipes extending outwardly and downwardly from the union and attaching at
60 their lower ends to the bracket terminals whereby the shower is supported, a pendent spray-pipe attached to the union member, a water-head secured to the top of the fixture in communication with its mixing-chamber,
65 and a supply-pipe having its opposite ends tapped into the union member and water-head, substantially as described.

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

IRVING G. DIMOND.

Witnesses:

C. W. OWEN,
HAZEL B. HIETT.