

SWIRLING-TYPE MICROBUBBLE GENERATION DEVICE

Abstract

[Problem to be Solved] Provided is a swirling-type microbubble generation device capable of discharging a swirling gas-liquid mixture containing a large volume of microbubbles into the air in a concentrated manner by being placed in proximity to a jetting target, or by being placed in proximity to or in close contact with the jetting target in the air, or further discharging such a mixture into water in a hot water tank, and furthermore discharging a swirling gas-liquid mixture containing a large volume of microbubbles as shower.

[Solution] The microbubble generation device includes a cylindrical container body that is closed at one end by a wall body and is open at the other end, a gas inlet provided in the wall body of the cylindrical container body on the one end side, and a pressurized liquid inlet provided in part of the circumferential wall of the cylindrical container body such that it is open in the direction of the tangent to the inner circumference thereof. The wall body on the one end side is formed in the shape of a cone or a truncated cone protruding toward the other end side, and thus is configured to guide a swirling gas-liquid mixture containing microbubbles through an opening on the other end side. A cover body

having an outwardly protruding pipe body in its center is attached to the opening on the other end side. Further, a shower jet portion is detachably provided on the tip end portion of the cover body.

FIG. 3