

ABSTRACT  
INTERMITTENT-BUBBLING EQUIPMENT

The present invention provides intermittent-bubbling equipment used while being immersed in a liquid. The intermittent-bubbling equipment includes a tubular casing vertically disposed; and a plurality of partition walls disposed substantially parallel to an axial direction in the casing, and configured to define a gas introducing chamber, a gas inducing chamber, and a gas discharging chamber. The gas introducing chamber and the gas inducing chamber communicate with each other at a top of the casing, and the gas inducing chamber and the gas discharging chamber communicate with each other at a bottom of the casing. An upper side of the gas introducing chamber and an upper side of the gas inducing chamber are closed by a lid plate, and a lower side of the gas inducing chamber and a lower side of the gas discharging chamber are closed by a bottom plate. A cross-sectional area of the gas introducing chamber may be greater than a cross-sectional area of the gas discharging chamber. An upper edge of a connecting hole between the gas inducing chamber and the gas discharging chamber may be substantially horizontal. A bottom plate that closes the gas inducing chamber and a bottom plate that closes the gas discharging chamber may be formed by a single flat member.

FIG. 7