CLAIMS

1. A bubble generation device for intermittently generating large bubbles in a liquid phase, which is characterized by comprising:

a gas supply member that continuously supplies air;

a bubble storing container that stores bubbles generated in the liquid phase by the gas supply member;

a pivot that allows the bubble storing container to reciprocatingly pivot thereon;

a first partition that is installed in an inside of the bubble storing container and in an axial direction of the pivot and partitions the inside into a pair of bubble storing chambers into which the bubbles are distributed by the reciprocatingly pivoting; and

a pair of edge portion receivers that receives and blocks an edge portion of the bubble storing container allowed to reciprocatingly pivot.

2. A bubble generation device for intermittently generating large bubbles in a liquid phase, which is characterized by comprising:

a gas supply member that continuously supplies air;

a bubble storing container that stores bubbles generated in the liquid phase by the gas supply member;

a pivot that allows the bubble storing container to reciprocatingly pivot thereon;

a first partition that is installed in an inside of the bubble storing container and in an axial direction of the pivot and partitions the inside into

a pair of bubble storing chambers into which the bubbles are distributed by the reciprocatingly pivoting; and

a plurality of second partitions that are perpendicularly arranged to the axial direction of the pivot in the inside of the bubble storing container and further partition the inside,

wherein a plurality of insides partitioned in a longitudinal direction of the bubble storing container communicate with each other at a top portion of the bubble storing container.

3. The bubble generation device as claimed in claim 1, which is characterized in that the inside of the bubble storing container has a plurality of second partitions that are perpendicularly arranged to the axial direction of the pivot and further partition the inside.

4. The bubble generation device as claimed in claim 3, which is characterized in that a plurality of insides partitioned in a longitudinal direction of the bubble storing container communicate with each other at a top portion of the bubble storing container.

5. The bubble generation device as claimed in any one of claims 1 to 4, which is characterized in that the pivot is formed on the first partition in a vicinity of a lower end of the first partition.

6. The bubble generation device as claimed in any one of claims 1 to 5, which is characterized by being used together with a bubble diffusion

prevention wall or a bubble introduction wall, each of which is arranged on a lower end side of a membrane separation device to which the bubbles are supplied, or a draft tube that circularly supplies the liquid phase.