

**FINE BUBBLE GENERATION DEVICE AND METHOD FOR
MANUFACTURING FINE BUBBLE GENERATION DEVICE**

Abstract

Provided is a fine bubble generating device including a bubble generator

5 configured to generate fine bubbles by mixing a liquid continuously supplied from
a liquid supply source and a gas supplied from a gas supply unit, and to discharge
a gas-liquid mixture obtained by mixing the fine bubbles and the liquid with each
other. The bubble generator includes: a confluence pipe formed as an
independent component and having a liquid introduction portion configured to
10 supply liquid to an inside, a gas introduction portion configured to supply gas to
the inside, and an outlet portion configured to generate fine bubbles and exhaust
a gas-liquid mixture containing the fine bubbles; and a tubular internal component
assembled and housed inside the confluence pipe, and having therein a flow
passage that allows the liquid supplied from the liquid introduction portion to flow
15 to the outlet portion. The internal component includes a downstream inner pipe

formed as an independent component and disposed on a downstream side in a direction of the flow of the liquid, and an upstream inner pipe formed as an independent component and disposed on an upstream side. The upstream inner pipe has a through-hole bored and formed for introducing the gas supplied from

5 the gas introduction portion into the flow passage. The downstream inner pipe is coupled to the upstream inner pipe inside the confluence pipe. The flow passage allows communication between the upstream inner pipe and the downstream inner pipe substantially along the same axis from the liquid introduction portion to the outlet portion.

10 (Figure 17)