

ABSTRACT OF THE DISCLOSURE

A diffused gas aeration apparatus which is easy to be enlarged and highly efficient is provided, obtaining high performance, energy saving, space saving and maintenance free
5 nature, by means of improvement in mixture agitation efficiency between gas and liquid.

A diffused gas aeration apparatus 15 includes: a cylindrical passage tube 8 substantially placed vertically in which fluid passes in the longitudinal direction and in which a
10 static mixer 9 is provided; a gas blowoff portion 12 on the lower end side of the passage tube 8, which supplies gas to the inside of the passage tube 8 through a pneumatic dispatch line 11 and in which a static mixer 13 is provided; wherein gas is supplied to the gas blowoff portion 12, liquid is introduced
15 into the passage tube 8 from a liquid-introducing portion 14 on the lower side of the passage tube 8, the gas and liquid flow upward in a parallel direction in the passage tube 8 and come in gas-liquid contact inside the passage tube 8, and then are discharged from the upper end side of the passage tube 8 into
20 liquid.