Title (en)

Device and method for mixing a gas with a liquid or a liquid with a liquid

Title (de)

Vorrichtung und Verfahren zum Mischen eines Gases mit einer Flüssigkeit oder einer Flüssigkeit mit einer Flüssigkeit

Title (fr)

Appareil et procédé pour mélanger un gaz avec un liquide ou un liquide avec un liquide

Publication

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Application

EP 02006458 A 20020322

Priority

IT PC20010014 A 20010323

Abstract (en)

This invention relates to a method for mixing a gas with a liquid or a liquid with a liquid, and a device designed to implement the said method. <??>The said device comprises a propeller (1) which contains a channel that places the upper surface of the blades (4) in communication with the environment containing a gas or liquid to be mixed with a liquid. The said device draws the gas, such as air, from the external environment (or a liquid) using the negative pressure generated on the upper surface of the propeller blades immersed in the liquid, such as water, when the propeller is rotated, the said negative pressure being sufficient to suck in the said air. The air thus aspirated will mix effectively with the liquid mass due to the effect of the vortex caused by the rotating propeller, which breaks up the air into a myriad of bubbles, thus greatly increasing the exchange surface. <IMAGE>

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Cited by

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