

Title (en)
EDDY CHAMBER

Title (de)
WIRBELKAMMER

Title (fr)
CHAMBRE DE TURBULENCE

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Abstract (en)
[origin: WO2007022555A1] The invention relates to an eddy chamber for generating turbulence in a medium flowing through the chamber, comprising an inlet opening, an outlet opening and at least two constrictions in the cross-section thereof. In the region of the constrictions, the inner profile of the eddy chamber has the form of wave crests (10, 12, 25, 27, 30) in section parallel to the longitudinal axis thereof. According to the invention, the mixing may be improved and the pressure drop held small, whereby the angle to the longitudinal axis (z) in the direction of the outlet opening (15, 31) at the inflection points (12a, 25a, 27a, 30a) on the flanks of at least two wave crests (10, 12, 25, 27, 30) facing the inlet opening (9, 23) is larger. The invention further relates to a device for the enrichment of a liquid medium with a gaseous medium, in particular for the introduction of oxygen in water treatment, comprising an injector (3) for the introduction of gas, an eddy chamber (2) arranged before the injector (3) with at least one constriction in the cross-section thereof and an eddy chamber (4) after the injector (3) with at least one constriction in the cross-section thereof.

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