

Title (en)

DEVICE AND METHOD FOR DISPERSING GASES INTO LIQUIDS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM DISPERGIEREN VON GASEN IN FLÜSSIGKEITEN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE DISPERSION DE GAZ DANS DES LIQUIDES

Publication

**EP 4323094 A1 20240221 (DE)**

Application

**EP 22716355 A 20220317**

Priority

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Abstract (en)

[origin: WO202218636A1] A device according to the invention for dispersing a gas into a liquid comprises a liquid volume (2, 21, 43) and a nozzle (3, 22, 41) which is immersed in the liquid volume below a liquid level (42). The nozzle has a conical annular gap (7, 26), at the tip of which a nozzle opening (9, 28) is provided, and a liquid feed line (5, 24) opening tangentially into the conical annular gap. A gas feed line (10, 29, 49) for a gas to be dispersed into the liquid volume opens into the liquid feed line, into the annular gap or in the region of the nozzle opening. The nozzle causes a strong swirling movement in the liquid fed into the liquid volume, which allows good dispersion of the gas that has been introduced via the gas feed line.

IPC 8 full level

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