

Device and method for gas dispersion

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The invention relates to a device for dispersing gas into a liquid. The device has a number n of successive zones $Z_1, Z_2, \dots, Z_n$ having static mixing elements, wherein each zone Z_i has a length L_i and an effective diameter D_i . The mechanical energy input Et , which is standardised to the particular ratio L_i/D_i and acts on the gas/liquid mixture, increases from zone to zone in the flow direction. In this connection n is a whole number greater than or equal to 3 and i is an index which runs through the whole numbers from 1 to the number n of zones. The invention further relates to a method for dispersing gas into a liquid using the device according to the invention.

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