

Title (en)  
DEVICE AND METHOD FOR GAS DISPERSION

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR GASDISPERGIERUNG

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE DISPERSION DE GAZ

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Application  
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Abstract (en)  
[origin: CA2809082A1] 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  $E_t$ , 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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