

Title (en)
APPARATUS AND METHOD FOR MIXING DISPERSIONS AND GASES

Title (de)
VORRICHTUNG UND VERFAHREN ZUR MISCHUNG VON DISPERSIONEN UND GASEN

Title (fr)
APPAREIL ET PROCÉDÉ POUR MÉLANGER DES DISPERSIONS ET DES GAZ

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Abstract (en)
[origin: EP2353705A1] The device for mixing a dispersion with a gas, comprises an outer reception (2) and/or two perforated plates (3) arranged to each other by a spacer (4) spaced apart into the reception, which comprises a support for receiving a first perforated plate on which the first perforated plate is loosely arranged and the perforated plate of the spacer is loosely arranged on which the second perforated plate is arranged. The reception comprises a tapered section at its inlet- and/or outlet side (5, 6). The cross section rejuvenates itself at the inlet and/or outlet side around 10 %. The device for mixing a dispersion with a gas, comprises an outer reception (2) and/or two perforated plates (3) arranged to each other by a spacer (4) spaced apart into the reception, which comprises a support for receiving a first perforated plate on which the first perforated plate is loosely arranged and the perforated plate of the spacer is loosely arranged on which the second perforated plate is arranged. The reception comprises a tapered section at its inlet- and/or outlet side (5, 6). The cross section rejuvenates itself at the inlet and/or outlet side around 10 % in comparison to the average cross section of the reception. The perforated plates comprise a total hole surface per hole between 1-15% of the total hole surface, and have a thickness between 1 mm and 10 mm. The distance corresponds between the perforated plates of the 5 to 100-fold of the hole bottom thickness. The linear expansion of the device is conducted between the 5-fold and 50-fold of the diameter of the device, which has 3 and 100 perforated plates. An independent claim is included for a method for mixing a dispersion with a gas.

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