

Title (en)

Device and method for mixing dispersions and gases

Title (de)

Vorrichtung und Verfahren zum Mischen von Dispersionen und Gasen

Title (fr)

Dispositif et procédé destiné à mélanger des dispersions et des gaz

Publication

EP 2353705 A1 20110810 (DE)

Application

EP 10001079 A 20100203

Priority

EP 10001079 A 20100203

Abstract (en)

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.

Abstract (de)

Die vorliegende Erfindung betrifft eine Vorrichtung sowie ein Verfahren zum Mischen einer Dispersion mit einem Gas, insbesondere einer Polymerdispersion mit einer gasförmigen Säure. Erfindungsgemäß wird eine Vorrichtung angegeben, welche aus einer äußeren Aufnahme (2) sowie wenigstens zwei mittels eines Abstandhalters (4) in der Aufnahme (2) zueinander beabstandet angeordnete Lochböden (3) aufweist, wobei die Aufnahme ein Auflager zur Aufnahme eines ersten Lochbodens aufweist, auf welchem ein Lochboden lose angeordnet ist und auf diesem ersten Lochboden der Abstandhalter lose angeordnet ist, auf welchem wiederum der zweite Lochboden angeordnet ist.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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