

Title (en)
Mixing receptacle

Title (de)
Mischkammer

Title (fr)
Chambre de mélange

Publication
EP 0619134 B1 19961218 (DE)

Application
EP 94103386 A 19940307

Priority
CH 108493 A 19930408

Abstract (en)
[origin: EP0619134A1] In a mixing apparatus for mixing two or more substances, the substances to be mixed flow along a separation plate (22) which is arranged upstream of the mixing zone (d) and on which are mounted flow-influencing elements. The elements are vortex generators (9) of which a plurality are arranged adjacently transversely to the direction of flow over the width or the periphery of the separation plate (22). A vortex generator (9) has three surfaces over which flow freely passes and which extend in the direction of flow and of which one forms the roof surface (10) and the other two form the side surfaces (11, 13). The side surfaces together enclose the sweepback angle (α). The roof surface runs at an angle of attack (θ) to the wall (21). By means of the vortex generators, large-scale longitudinal vortices can be generated which make possible rapid controlled mixing of the flowing substances within the shortest possible path.

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B01F 5/06

IPC 8 full level
B01F 5/00 (2006.01); **B01F 5/06** (2006.01)

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Cited by
EP0776689A1; CN110488853A; US5803602A; US6135629A; CN101932377A; DE19510744A1; US5829967A; US6189320B1; WO2009155625A1

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