

Title (en)

METHOD FOR INFLUENCING A FLUID FLOW

Title (de)

VERFAHREN ZUR BEEINFLUSSUNG EINER FLUIDSTRÖMUNG

Title (fr)

PROCÉDÉ PERMETTANT D'AGIR SUR L'ÉCOULEMENT D'UN FLUIDE

Publication

EP 3134626 A1 20170301 (DE)

Application

EP 15720643 A 20150423

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Abstract (en)

[origin: WO2015162202A1] The invention relates to a method for influencing a fluid flow (1) in a fluid line (2). The fluid line has a wall (3) and a honeycomb body (4) is arranged in the fluid line (2) with a fluid inlet side (5) and a fluid outlet side (6). The honeycomb body (4) has a honeycomb structure (8) with a cross section area (9) and with ducts (10) through which the fluid flow (1) can flow from the fluid inlet side (5) to the fluid outlet side (6), wherein the honeycomb body (4) has an outer boundary (11), wherein the honeycomb structure (8) has a circumferential outer zone (12) close to the boundary and a central zone (13) arranged within the outer zone (12); wherein the outer zone (12) comprises at most 70% of the cross section area (9). The method comprises at least the following steps: a) providing the fluid flow (1) upstream of the honeycomb body (4); b) entry of the fluid flow (1) into the honeycomb body (4), wherein on the fluid inlet side (5) the inflow speed (14) of the fluid flow (1) in the outer zone (12) close to the boundary is lower than the inflow speed (15) of the fluid flow (1) in the central zone (13); c) at least partial redirection of the fluid flow (1) outwards in a radial direction (16), such that on the fluid outlet side (6) a first outflow speed (17) of the fluid flow (1) in at least one partial region (18) of the outer zone (12) close to the boundary is at least 20% higher than a second outflow speed (19) of the fluid flow (1) in the central zone (13).

IPC 8 full level

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