

Title (en)

RE-LAMINARIZATION OF A TURBULENT FLOW IN A DUCT

Title (de)

WIEDERHERSTELLUNG EINER LAMINAREN STRÖMUNG IN EINER LEITUNG IN DER EINE TURBULENTE STRÖMUNG HERRSCHT

Title (fr)

RE-LAMINARISATION D'UN ÉCOULEMENT TURBULENT DANS UN CONDUIT

Publication

EP 3118468 A1 20170118 (EN)

Application

EP 15176645 A 20150714

Priority

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Abstract (en)

For re-laminarizing a turbulent flow of a fluid flowing through a duct (4) in a main flow direction (6), a wall (5) of the duct (4) bounding the flow, additional fluid (9) is injected into the duct (4) in the main flow direction (6) as a sheet (11) of fluid covering the wall (5) in a circumferential direction around the main flow direction (6). Alternatively, a cylinder barrel structure is coaxially arranged within the pipe (2). The cylinder barrel structure comprises at least one cylinder barrel which is partly closed at its upstream end in the main flow direction, and the cylinder barrel structure - in the main flow direction - extends over at least twice a diameter (3) of the duct.

IPC 8 full level

F15D 1/06 (2006.01)

CPC (source: EP)

F15D 1/008 (2013.01); **F15D 1/06** (2013.01)

Citation (applicant)

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Designated contracting state (EPC)

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