

Title (en)
FLOW CHANNEL FOR LIQUIDS

Title (de)
STRÖMUNGSKANAL FÜR FLÜSSIGKEITEN

Title (fr)
CANAL D'ÉCOULEMENT DESTINÉ À DES LIQUIDES

Publication
EP 1649173 A1 20060426 (DE)

Application
EP 04722166 A 20040320

Priority
• EP 2004002961 W 20040320
• DE 10333477 A 20030722

Abstract (en)
[origin: US2007017588A1] The object of the present invention is to provide a flow channel for liquids or also gases, which is of such a design that the lowest possible losses occur in the flow, in particular low frictional losses. A further aim of the invention is to provide a flow channel for liquids, in which different flow regions are set. A flow channel for liquids characterized in that at least one wall defining the flow channel is of such a configuration that when a liquid flows therethrough at least one flow region is produced which has an axial and simultaneous tangential flow component.

IPC 1-7
F15D 1/06; **F15D 1/04**

IPC 8 full level
F15D 1/06 (2006.01)

CPC (source: EP KR US)
F15D 1/02 (2013.01 - KR); **F15D 1/06** (2013.01 - KR); **F15D 1/065** (2013.01 - EP US); **Y10T 137/0777** (2015.04 - EP US)

Citation (search report)
See references of WO 2005019658A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2007017588 A1 20070125; **US 7487799 B2 20090210**; AR 046398 A1 20051207; AU 2004267143 A1 20050303; BR PI0412883 A 20061003; CA 2533042 A1 20050303; CN 1833109 A 20060913; DE 10333477 A1 20050224; EG 23928 A 20080113; EP 1649173 A1 20060426; IL 173185 A0 20060611; IS 8317 A 20060221; JP 2006528750 A 20061221; KR 20060036468 A 20060428; MX PA06000733 A 20060419; NO 20060842 L 20060315; WO 2005019658 A1 20050303; ZA 200600103 B 20060927

DOCDB simple family (application)
US 56539904 A 20040320; AR P040102577 A 20040721; AU 2004267143 A 20040320; BR PI0412883 A 20040320; CA 2533042 A 20040320; CN 200480021004 A 20040320; DE 10333477 A 20030722; EG NA2006000063 A 20060121; EP 04722166 A 20040320; EP 2004002961 W 20040320; IL 17318506 A 20060117; IS 8317 A 20060221; JP 2006520675 A 20040320; KR 20067001580 A 20060123; MX PA06000733 A 20040320; NO 20060842 A 20060221; ZA 200600103 A 20060118