

Title (en)
METHOD AND APPARATUS FOR TRANSPORTING FLUID IN A CONDUIT

Title (de)
VERFAHREN UND VORRICHTUNG ZUM TRANSPORT VON FLUID IN EINER LEITUNG

Title (fr)
PROCEDE ET APPAREIL DE TRANSPORT DE FLUIDE DANS UNE CONDUITE

Publication
EP 1859167 A1 20071128 (EN)

Application
EP 05814040 A 20051205

Priority
• NO 2005000449 W 20051205
• NO 20045382 A 20041209

Abstract (en)
[origin: WO2006062413A1] A method is provided for transporting fluid in a conduit (3), for example, a pipe, comprising a fluid dividing means (5) in the conduit which divides the conduit (3) into an upstream side and a downstream side, and which fluid dividing means (5) in a first state prevents fluid communication between the upstream side and the downstream side and in a second state allows fluid communication between the upstream side and the downstream side, characterised by the steps of: generating at least one wave in the fluid on the downstream side of the fluid dividing means (5), which wave causes the fluid dividing means (5) to be brought into the second state so that an incremental fluid volume ΔV from the upstream side of the fluid dividing means (5) can flow to the downstream side of the fluid dividing means (5); and causing a change in pressure on the downstream side of the fluid dividing means (5) when the fluid dividing means (5) is brought back to the first state, whereby the incremental fluid volume ΔV is transported in the form of a pressure wave which travels in the fluid on the downstream side of the fluid dividing means (5). An apparatus is also provided for performing the method, which apparatus comprises a wave generator (4) for generating said at least one wave in the fluid.

IPC 8 full level
F04B 43/04 (2006.01); **F04B 17/04** (2006.01); **F04B 43/073** (2006.01); **F04F 7/00** (2006.01)

IPC 8 main group level
F04B (2006.01)

CPC (source: EP US)
E21B 43/126 (2013.01 - EP US); **F04B 43/073** (2013.01 - EP US); **F04B 47/00** (2013.01 - EP); **F04B 47/02** (2013.01 - EP);
F04B 53/12 (2013.01 - EP US); **F04F 7/00** (2013.01 - EP)

Citation (search report)
See references of WO 2006062413A1

Cited by
EP2063123A2

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

DOCDB simple family (publication)
WO 2006062413 A1 20060615; EP 1859167 A1 20071128; EP 2063123 A2 20090527; EP 2063123 A3 20090603; NO 20045382 D0 20041209

DOCDB simple family (application)
NO 2005000449 W 20051205; EP 05814040 A 20051205; EP 08171827 A 20051205; NO 20045382 A 20041209