

Title (en)

METHOD AND DEVICE FOR THE CONVECTIVE MOVEMENT OF LIQUIDS IN MICROSYSTEMS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KONVEKTIVEN BEWEGUNG VON FLÜSSIGKEITEN IN MIKROSYSTEMEN

Title (fr)

PROCEDE ET DISPOSITIF POUR DEPLACER DES LIQUIDES PAR CONVECTION DANS DES MICROSYSTEMES

Publication

EP 1140343 B1 20030319 (DE)

Application

EP 99964603 A 19991217

Priority

- DE 19859461 A 19981222
- EP 9910090 W 19991217

Abstract (en)

[origin: US6663757B1] The aim of the invention is to convectively move at least one liquid in a channel of a microsystem which comprises a predetermined channel direction. To this end, the liquid is, in a partial section of the channel, subjected to an electric field gradient and optionally to a thermal gradient. The gradients are generated in the partial section corresponding to a predetermined field direction, whereby the field direction differs from the channel direction.

IPC 1-7

B01F 13/08; B01F 3/12; F15D 1/02

IPC 8 full level

B01F 3/12 (2006.01); **B01F 13/00** (2006.01); **B01F 13/08** (2006.01); **F15D 1/02** (2006.01)

CPC (source: EP US)

B01F 23/55 (2022.01 - EP US); **B01F 33/3031** (2022.01 - EP US); **B01F 33/3032** (2022.01 - EP US); **F15D 1/02** (2013.01 - EP US)

Cited by

DE102008039956A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6663757 B1 20031216; AT E234671 T1 20030415; DE 19859461 A1 20000629; DE 59904670 D1 20030424; EP 1140343 A1 20011010; EP 1140343 B1 20030319; WO 0037165 A1 20000629

DOCDB simple family (application)

US 86819901 A 20010806; AT 99964603 T 19991217; DE 19859461 A 19981222; DE 59904670 T 19991217; EP 9910090 W 19991217; EP 99964603 A 19991217