Title (en)

MICROFLUIDIC DEVICE, APPARATUS AND METHOD FOR ENRICHMENT AND DILUTION OF MAGNETIC MOLECULAR ENTITIES

Title (de)

MIKROFLUIDISCHE VORRICHTUNG, EINRICHTUNG UND VERFAHREN ZUR ANREICHERUNG UND VERDÜNNUNG VON MAGNETISCHEN MOLEKULAREN EINHEITEN

Title (fr)

DISPOSITIF MICROFLUIDIQUE, APPAREIL ET PROCÉDÉ D'ENRICHISSEMENT ET DE DILUTION D'ENTITÉS MOLÉCULAIRES MAGNÉTIQUES

Publication

EP 3669982 B1 20220202 (EN)

Application

EP 18215771 A 20181221

Priority

EP 18215771 A 20181221

Abstract (en)

[origin: EP3669982A1] A microfluidic device (500) includes a substrate (100) with a fluid channel (250) extending from an inlet opening (210) to a channel branch (270). The fluid channel (250) includes a planar spiral portion (255) and at the channel branch (270) the fluid channel (250) branches in at least two outlet channels (280). A ferromagnetic auxiliary structure (300) is formed in a plane parallel to the planar spiral portion (255).

IPC 8 full level

B01L 3/00 (2006.01)

CPC (source: EP)

B01L 3/502753 (2013.01); **B01L 3/502776** (2013.01); B01L 2200/0636 (2013.01); B01L 2200/0652 (2013.01); B01L 2300/0816 (2013.01); B01L 2300/088 (2013.01); B01L 2400/043 (2013.01)

Citation (examination)

- US 2011117577 A1 20110519 - REBOUD JULIEN [US], et al
- JOO?H. KANG ET AL: "Magnetophoretic Continuous Purification of Single-Walled Carbon Nanotubes from Catalytic Impurities in a Microfluidic Device", SMALL, vol. 3, no. 10, 1 October 2007 (2007-10-01), pages 1784 - 1791, XP055767814, ISSN: 1613-6810, DOI: 10.1002/smll.200700334

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3669982 A1 20200624; **EP 3669982 B1 20220202**; PL 3669982 T3 20220711

DOCDB simple family (application)

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