

Title (en)
METHODS AND SYSTEMS FOR ENHANCED MICROFLUIDIC PROCESSING

Title (de)
VERFAHREN UND SYSTEME FÜR EINE VERBESSERTE MIKROFLUIDISCHE VERARBEITUNG

Title (fr)
PROCÉDÉS ET SYSTÈMES DE TRAITEMENT MICRO-FLUIDIQUE AMÉLIORÉ

Publication
EP 2962092 A4 20160824 (EN)

Application
EP 14761250 A 20140303

Priority
• US 201361771708 P 20130301
• US 2014020029 W 20140303

Abstract (en)
[origin: WO2014137940A1] Methods and systems are provided for a microfluidic cartridge including a high performance actuator useful for analyte detection, labeling and analysis. Microfluidic processing systems are to carry out chemical or biochemical reactions, or sequences of reactions, with small volumes (typically between 1 microliter and 10 milliliters) of reactants and products. A microfluidic processing system can comprise a network of tubes interfaced with discrete components such as valves and sensors, or an integrated device made of plastic, glass, metal, or other materials, or a combination of materials, with components such as valves and sensors built into the device and connected by flow passageways formed in the material.

IPC 8 full level
G01N 27/26 (2006.01); **B01L 3/00** (2006.01); **B01L 7/00** (2006.01)

CPC (source: EP)
B01L 3/502715 (2013.01); **B01L 3/50273** (2013.01); **B01L 7/52** (2013.01); **B01L 2300/0681** (2013.01); **B01L 2300/0816** (2013.01); **B01L 2300/0867** (2013.01); **B01L 2300/123** (2013.01); **B01L 2400/0418** (2013.01)

Citation (search report)
• [X] EP 0816837 A1 19980107 - CALIPER TECHN CORP [US]
• [A] US 2004241004 A1 20041202 - GOODSON KENNETH E [US], et al
• [A] US 2005034990 A1 20050217 - CROOKS RICHARD M [US], et al
• [A] US 6391622 B1 20020521 - KNAPP MICHAEL [US], et al
• See references of WO 2014137940A1

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)
WO 2014137940 A1 20140912; CA 2903382 A1 20140912; EP 2962092 A1 20160106; EP 2962092 A4 20160824; JP 2016516562 A 20160609; JP 2019162623 A 20190926

DOCDB simple family (application)
US 2014020029 W 20140303; CA 2903382 A 20140303; EP 14761250 A 20140303; JP 2015560397 A 20140303; JP 2019063904 A 20190328