

Title (en)

SENSOR CHIP FOR USE IN OPTICAL SPECTROSCOPY

Title (de)

SENSORCHIP ZUR VERWENDUNG IN DER OPTISCHEN SPEKTROSKOPIE

Title (fr)

PUCE DE CAPTEUR DESTINÉE À ÊTRE UTILISÉE POUR UNE SPECTROSCOPIE OPTIQUE

Publication

EP 2185918 A4 20130306 (EN)

Application

EP 07794265 A 20070814

Priority

SG 2007000255 W 20070814

Abstract (en)

[origin: WO2009022985A1] A grating-coupled surface plasmon resonance sensor chip having a substrate body comprising at least one fluid channel integrally formed on the surface thereof by imprinting stamp, and a reflective material layer being integrally transferred to at least part of said fluid channel at the same time of the imprinting step.

IPC 8 full level

G01N 21/55 (2006.01); **B01L 3/00** (2006.01); **G01N 21/77** (2006.01)

CPC (source: EP)

B01L 3/502707 (2013.01); **G01N 21/554** (2013.01); **G01N 21/7743** (2013.01); **B01L 2300/0654** (2013.01); **B01L 2300/0816** (2013.01); **B01L 2300/12** (2013.01); **B01L 2300/168** (2013.01)

Citation (search report)

- [Y] US 2006188401 A1 20060824 - ROBOTTI KARLA [US], et al
- [Y] SUNIL M BHANGALE ET AL: "Biologically active protein gradients via microstamping", ADVANCED MATERIALS, vol. 17, no. 7, 1 January 2005 (2005-01-01), pages 809 - 813, XP055051480
- [Y] GUO L J ET AL: "Fabrication of size-controllable nanofluidic channels by nanoimprinting and its application for DNA stretching", NANO LETTERS, ACS, US, vol. 4, no. 1, 1 January 2004 (2004-01-01), pages 69 - 73, XP007910291, ISSN: 1530-6984, DOI: 10.1021/NL034877I
- [Y] KOERNER T ET AL: "Epoxy resins as stamps for hot embossing of microstructures and microfluidic channels", SENSORS AND ACTUATORS B: CHEMICAL: INTERNATIONAL JOURNAL DEVOTED TO RESEARCH AND DEVELOPMENT OF PHYSICAL AND CHEMICAL TRANSDUCERS, ELSEVIER S.A, SWITZERLAND, vol. 107, no. 2, 29 June 2005 (2005-06-29), pages 632 - 639, XP025328674, ISSN: 0925-4005, [retrieved on 20050629], DOI: 10.1016/J.SNB.2004.11.035
- [Y] JAGANNATHAN NARASIMHAN ET AL: "Polymer embossing tools for rapid prototyping of plastic microfluidic devices; Polymer embossing tools for rapid prototyping", JOURNAL OF MICROMECHANICS & MICROENGINEERING, INSTITUTE OF PHYSICS PUBLISHING, BRISTOL, GB, vol. 14, no. 1, 1 January 2004 (2004-01-01), pages 96 - 103, XP020069535, ISSN: 0960-1317, DOI: 10.1088/0960-1317/14/1/013
- [A] Y CHOU STEPHEN ET AL: "Nanoimprint lithography", JOURNAL OF VACUUM SCIENCE TECHNOLOGY B, vol. 14, no. 6, 1 January 1996 (1996-01-01), pages 4129 - 4133, XP055051481
- See references of WO 2009022985A1

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009022985 A1 20090219; EP 2185918 A1 20100519; EP 2185918 A4 20130306

DOCDB simple family (application)

SG 2007000255 W 20070814; EP 07794265 A 20070814