

Title (en)
PIXEL DEVICE FOR BIOLOGICAL ANALYSIS, CMOS BIOSENSOR AND CORRESPONDING FABRICATION METHODS

Title (de)
PIXELVORRICHTUNG FÜR DIE BIOLOGISCHE ANALYSE, CMOS-BIOSENSOR UND ENTSPRECHENDE HERSTELLUNGSVERFAHREN

Title (fr)
DISPOSITIF D'ANALYSE BIOLOGIQUE DE TYPE PIXEL, BIOCAPTEUR CMOS ET PROCEDES DE FABRICATION CORRESPONDANTS

Publication
EP 2307130 A1 20110413 (FR)

Application
EP 09784225 A 20090624

Priority
• FR 2009000765 W 20090624
• FR 0803627 A 20080627
• FR 0803639 A 20080627

Abstract (en)
[origin: WO2010004115A1] The invention relates to a pixel device (10) for biological analysis, comprising a photosensitive layer (20), a capture mixture (12) for capturing target proteins, arranged on an external surface of the photosensitive layer and comprising a probe protein (14) grafted to a hydrogel (16, 18), means for collecting photoelectrons in the photosensitive layer, and means for reading and processing an electrical quantity provided by the collecting means, in order to provide a value characteristic of a light intensity detected by the photosensitive layer.

IPC 8 full level
B01J 19/00 (2006.01); **C40B 40/10** (2006.01); **C40B 50/14** (2006.01)

CPC (source: EP US)
B01J 19/0046 (2013.01 - EP US); **C40B 50/14** (2013.01 - EP US); **G01N 21/6454** (2013.01 - EP US); **B01J 2219/00497** (2013.01 - EP US); **B01J 2219/00527** (2013.01 - EP US); **B01J 2219/00576** (2013.01 - EP US); **B01J 2219/00585** (2013.01 - EP US); **B01J 2219/00596** (2013.01 - EP US); **B01J 2219/00644** (2013.01 - EP US); **B01J 2219/00653** (2013.01 - EP US); **B01J 2219/00659** (2013.01 - EP US); **B01J 2219/00677** (2013.01 - EP US); **B01J 2219/00713** (2013.01 - EP US); **B01J 2219/00725** (2013.01 - EP US); **Y10T 156/10** (2015.01 - EP US)

Citation (search report)
See references of WO 2010004115A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2010004115 A1 20100114; EP 2300147 A1 20110330; EP 2307130 A1 20110413; US 2011140208 A1 20110616; US 2011158853 A1 20110630; US 8440470 B2 20130514; US 8858885 B2 20141014; WO 2010004116 A1 20100114

DOCDB simple family (application)
FR 2009000765 W 20090624; EP 09784225 A 20090624; EP 09784226 A 20090624; FR 2009000766 W 20090624; US 97061510 A 20101216; US 97063610 A 20101216