

Title (en)
KIT AND METHOD FOR DETERMINING A PLURALITY OF ANALYTES

Title (de)
KIT UND VERFAHREN ZUR MULTIANALYTBESTIMMUNG

Title (fr)
KIT ET PROCEDE POUR LA DETECTION D'UNE PLURALITE D'ANALYTES

Publication
EP 1287360 A2 20030305 (DE)

Application
EP 01940527 A 20010525

Priority
• CH 11042000 A 20000602
• EP 0105995 W 20010525

Abstract (en)
[origin: WO0192870A2] The invention relates to various embodiments of a kit for simultaneous, qualitative and/or quantitative detection of a plurality of analytes, comprising a sensor platform consisting of a thin-layered optical wave guide with a layer (a) which is transparent at least at one excitation wavelength on a layer (b) which is also transparent at least at the same excitation wavelength, having a lower refraction index than layer (a), and at least one lattice structure (c) modulated in layer (a); in addition to at least one array of biochemical or synthetic detector elements immobilized on layer (a) and disposed in discrete measuring areas (d) either directly or by means of an adhesion promoting layer. Said detector elements are used for specific detection and/or bonding of said analytes and/or specific interaction therewith. The inventive kit also contains means for local resolution referencing of the excitation light intensity present in the measuring areas in addition to, optionally, means for calibrating at least one luminescence produced as a result of bonding between one or several analytes or as a result of the specific interaction with one or several analytes in the near field of layer (a). A liquid sample in which the analytes are to be examined is brought into contact, either directly or after mixing it with other reagents, with the measuring areas on the sensor platform. The invention also relates to analytic systems based on the inventive kit, methods which are conducted in order to detect one or several analytes and the use thereof.

IPC 1-7
G01N 33/543

IPC 8 full level
B01L 3/00 (2006.01); **G01N 21/25** (2006.01); **G01N 21/64** (2006.01); **G01N 21/76** (2006.01); **G01N 33/15** (2006.01); **G01N 33/53** (2006.01); **G01N 33/543** (2006.01); **G01N 33/569** (2006.01); **G01N 37/00** (2006.01)

CPC (source: EP US)
B01L 3/5085 (2013.01 - EP US); **G01N 21/6452** (2013.01 - EP US); **G01N 33/54373** (2013.01 - EP US); **G01N 21/648** (2013.01 - EP US); **G01N 2021/6441** (2013.01 - EP US); **G01N 2021/6482** (2013.01 - EP US); **Y10S 435/808** (2013.01 - EP); **Y10S 435/975** (2013.01 - EP); **Y10S 436/805** (2013.01 - EP); **Y10S 436/808** (2013.01 - EP)

Citation (search report)
See references of WO 0192870A2

Citation (examination)
• WO 9735176 A1 19970925 - UNIV UTAH RES FOUND [US], et al
• WO 9503538 A1 19950202 - BALZERS HOCHVAKUUM [LI], et al

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0192870 A2 20011206; WO 0192870 A3 20021003; AU 7406801 A 20011211; EP 1287360 A2 20030305; JP 2004510130 A 20040402; JP 4812223 B2 20111109; US 2003148542 A1 20030807; US 2008212070 A1 20080904; US 7396675 B2 20080708; US 7645612 B2 20100112

DOCDB simple family (application)
EP 0105995 W 20010525; AU 7406801 A 20010525; EP 01940527 A 20010525; JP 2002501026 A 20010525; US 29685102 A 20021127; US 6282008 A 20080404