

Title (en)
RECEPTACLE, AND METHOD FOR THE DETECTION OF FLUORESCENCE

Title (de)
BEHÄLTER UND VERFAHREN ZUM NACHWEIS VON FLUORESZENZ

Title (fr)
RÉCIPIENT ET PROCÉDÉ DE DÉTECTION DE LA FLUORESCENCE

Publication
EP 2227684 A2 20100915 (DE)

Application
EP 08761398 A 20080627

Priority
• EP 2008058302 W 20080627
• DE 102007020610 A 20070430

Abstract (en)
[origin: WO2008132247A2] The invention relates to a liquid receptacle comprising a bottom and sidewalls for holding a liquid. The bottom encompasses a flat sensor surface that is in contact with the liquid when the receptacle is filled, a light-incident area that is located below the sensor surface and is suitable for focusing light onto the sensor surface, a light emergence area, and a cover area that is suitable for reflecting light from the sensor surface such that the light can emerge through the light emergence area. The invention further relates to a method for qualitatively or quantitatively determining an analyte in such a liquid receptacle. In said method, excitation light is focused onto the sensor surface via the light-incident area such that a luminescent marker which characterizes the analyte is excited, and the generated luminescence is then reflected onto the cover surface and is detected after emerging through the light emergence area. The invention also relates to an analysis device comprising a holder for a liquid receptacle, a light source that is disposed such that the light thereof can be focused onto the sensor surface of the liquid receptacle via the light-incident area, and a detector which is arranged in such a way as to be able to detect the light emerging from the light emergence area of the liquid receptacle.

IPC 8 full level
G01N 21/03 (2006.01); **B01L 3/00** (2006.01); **B01L 3/14** (2006.01); **G01N 21/64** (2006.01); **G01N 33/551** (2006.01); **G02B 19/00** (2006.01)

CPC (source: EP US)
G01N 21/0303 (2013.01 - EP US); **G01N 21/645** (2013.01 - EP US); **G01N 21/6452** (2013.01 - EP US); **G01N 21/6458** (2013.01 - EP US); **B01L 3/5027** (2013.01 - EP US); **B01L 3/5082** (2013.01 - EP US); **B01L 3/5085** (2013.01 - EP US); **B01L 2300/0654** (2013.01 - EP US); **G01N 2201/0642** (2013.01 - EP US); **G02B 2207/113** (2013.01 - EP US)

Citation (search report)
See references of WO 2008132247A2

Citation (examination)
• WO 2008029298 A2 20080313 - UNIV DUBLIN CITY [IE], et al
• US 2007210269 A1 20070913 - SONEHARA TSUYOSHI [JP], et al
• AT 400638 B 19960226 - SLT LABINSTRUMENTS GMBH [AT]
• US 4690900 A 19870901 - KIMMO KAEYHKOE [FI], et al
• US 6239875 B1 20010529 - VERHEIJEN JOHAN HENDRIKUS [NL]

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2008132247 A2 20081106; **WO 2008132247 A3 20100311**; **WO 2008132247 A8 20100107**; AU 2008244225 A1 20081106;
CN 101910823 A 20101208; DE 102007020610 A1 20081120; EP 2227684 A2 20100915; JP 2011525612 A 20110922;
US 2010136709 A1 20100603

DOCDB simple family (application)
EP 2008058302 W 20080627; AU 2008244225 A 20080627; CN 200880014319 A 20080627; DE 102007020610 A 20070430;
EP 08761398 A 20080627; JP 2010504761 A 20080627; US 59839708 A 20080627