

Title (en)

Device and/or method for the detection of amplified nucleotides sequences on micro-arrays

Title (de)

Vorrichtung und/oder Verfahren zum Nachweis von amplifizierten Nukleotidsequenzen auf Mikroarrays

Title (fr)

Dispositif et/ou procédé de détection de séquences amplifiées de nucléotides sur des microreseaux

Publication

EP 1946841 A1 20080723 (EN)

Application

EP 06127163 A 20061222

Priority

EP 06127163 A 20061222

Abstract (en)

A device for a detection of a nucleotide sequence of an organism, said device comprising: - at least one amplification chamber (1) for an amplification of the nucleotide sequence into amplified target nucleotide sequences possibly containing an amplification solution, the said chamber (1) having an inlet port (11) for introduction of amplification solution (1) comprising said nucleotide sequence and reagents for nucleotide sequence amplification, having a first outlet channel (13) and is made of solid material resistant to at least 90 °C; - at least one reagent chamber (2) possibly containing a reagent, said reagent chamber (2) having a second inlet port (12) for introduction of the reagent and a second outlet channel (14); - a detection chamber (3) which is connected to the amplification chamber (1) and to the reagent chamber (2) by the first outlet channel (13) and second outlet channel (14), wherein said detection chamber(3) has fixed upon one of its solid support surface (15) at least one capture nucleotide molecule being immobilized in discrete regions of said surface (15) to form a micro-array (16), said surface (15) of the detection chamber (3) is maintained flat at temperature higher than 50 °C, wherein the flatness tolerance of said surface (15) is less than 800 microns, when heated at 50 °C and wherein said surface (15) has a light transmittance higher than 60% at wavelength between 400 and 600 nm.

IPC 8 full level

B01J 19/00 (2006.01); **B01L 3/00** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/543** (2006.01)

CPC (source: EP)

B01L 3/5027 (2013.01); **B01L 7/52** (2013.01); **B01L 2300/0636** (2013.01); **B01L 2300/0851** (2013.01); **B01L 2300/087** (2013.01); **B01L 2300/1822** (2013.01); **B01L 2300/1827** (2013.01); **B01L 2400/0409** (2013.01); **B01L 2400/0415** (2013.01); **B01L 2400/0487** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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AL BA HR MK RS

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