

Title (en)

METHOD AND APPARATUS FOR RECOGNIZING MOLECULAR COMPOUNDS

Title (de)

VERFAHREN UND GERÄT ZUR ERKENNUNG MOLEKULARER VERBINDUNGEN

Title (fr)

PROCEDE ET DISPOSITIF POUR RECONNAITRE DES COMPOSES MOLECULAIRES

Publication

EP 1631577 A1 20060308 (EN)

Application

EP 03741837 A 20030528

Priority

- US 0317137 W 20030528
- US 15899503 A 20030528

Abstract (en)

[origin: WO2004106357A1] A probe-target reaction is made more recognizable by the provision of a mass-enhancing and/or evanescent-field-perturbing amplifier element which reacts uniquely with and binds to the probe-target pair to provide increased mass. Where the probe-target pair is hybridized dsDNA, a suitable mass enhancing amplifier is anti-double stranded DNA mouse IgM. In examples with sufficient sequence pairs in the probe-target combination, a sequence-specific minor-groove-binding polyamide can be used that carries biotin which can be amplified by streptavidin in a suitable carrier. In a preferred embodiment, a plurality of probes are immobilized at the sites of a microarray, each probe being specific to a different target. Optics utilizing total internal reflection are described for observing perturbation of the evanescent field.

IPC 1-7

C07H 21/04; C12M 3/00; C12Q 1/68; G01J 4/00; G01N 21/00; G01N 21/17; G01N 33/00; G01N 33/53; G01N 33/543; G01N 33/557

IPC 8 full level

C07H 21/04 (2006.01); **G01N 21/21** (2006.01); **G01N 21/55** (2006.01); **G01N 21/75** (2006.01); **G01N 33/543** (2006.01)

CPC (source: EP)

C07H 21/04 (2013.01); **G01N 21/21** (2013.01); **G01N 21/552** (2013.01); **G01N 33/54373** (2013.01); **G01N 2021/757** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004106357 A1 20041209; AU 2003304150 A1 20050121; CN 1823085 A 20060823; EP 1631577 A1 20060308; EP 1631577 A4 20080723; JP 2007528692 A 20071018

DOCDB simple family (application)

US 0317137 W 20030528; AU 2003304150 A 20030528; CN 03826863 A 20030528; EP 03741837 A 20030528; JP 2005500431 A 20030528