

Title (en)

INTEGRATED NUCLEIC ACID HYBRIDIZATION DEVICES BASED UPON ACTIVE SURFACE CHEMISTRY

Title (de)

INTEGRIERTE NUKLEINSAURE-HYBRIDISIERUNG-VORRICHTUNG AUF DER BASIS VON AKTIVER-OBERFLACHENCHEMIE

Title (fr)

DISPOSITIFS INTEGRES D'HYBRIDATION D'ACIDES NUCLEIQUES DONT LA FONCTION EST FONDEE SUR LA CHIMIE DES SURFACES ACTIVES

Publication

EP 0910570 A4 20020116 (EN)

Application

EP 96938841 A 19961114

Priority

- US 9618212 W 19961114
- US 669695 P 19951114

Abstract (en)

[origin: WO9718226A1] The hybridization device is comprised of an oligonucleotide probe and a solid substrate wherein the solid substrate has a support surface with a neutral or negative electrostatic field and a hybridization surface. As shown in the figure, the hybridization surface is accessible for linking the oligonucleotide probe to the solid substrate. The oligonucleotide probe is linked to the hybridization surface of the solid substrate at a distance of no more than 100 angstroms. Further, there is a method of using the hybridization device to detect single base changes in DNA or RNA target sequences.

IPC 1-7

C07H 21/02; **C07H 21/04**; **C12Q 1/68**

IPC 8 full level

C12N 15/09 (2006.01); **C07H 21/00** (2006.01); **C12M 1/00** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/6834** (2018.01)

CPC (source: EP)

C07H 21/00 (2013.01); **C12Q 1/6834** (2013.01)

Citation (search report)

- [X] WO 9322480 A1 19931111 - ISIS INNOVATION [GB], et al
- [X] EP 0455905 A2 19911113 - MICROPROBE CORP [US]
- [PX] WO 9631522 A1 19961010 - UNIV NEW YORK [US]
- [A] WO 9001564 A1 19900222 - MICROPROBE CORP [US]
- See references of WO 9718226A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9718226 A1 19970522; AU 7612296 A 19970605; CA 2235762 A1 19970522; EP 0910570 A1 19990428; EP 0910570 A4 20020116; JP 2001508281 A 20010626

DOCDB simple family (application)

US 9618212 W 19961114; AU 7612296 A 19961114; CA 2235762 A 19961114; EP 96938841 A 19961114; JP 51904597 A 19961114