

Title (en)

USE OF PHOTOPOLYMERIZATION FOR AMPLIFICATION AND DETECTION OF A MOLECULAR RECOGNITION EVENT

Title (de)

VERWENDUNG DER PHOTOPOLYMERISIERUNG ZUR AMPLIFIKATION UND ZUM NACHWEIS EINES MOLEKULAREN ERKENNUNGSEREIGNISSES

Title (fr)

UTILISATION DE LA PHOTOPOLYMERISATION POUR AMPLIFIER ET DETECTER UN EVENEMENT DE RECONNAISSANCE MOLECULAIRE

Publication

EP 1794326 A2 20070613 (EN)

Application

EP 05725765 A 20050316

Priority

- US 2005008807 W 20050316
- US 2004029733 W 20040909

Abstract (en)

[origin: WO2006031248A2] The invention provides methods to detect molecular recognition events. The invention also provides methods to detect the presence of or identify a target species based on its interaction with one or more probe species. The methods of the invention are based on amplification of the signal due to each molecular recognition event. The amplification is achieved through photopolymerization, with the polymer formed being associated with the molecular recognition event. In an embodiment, a fluorescent polymer, a magnetic polymer, a radioactive polymer or an electrically conducting polymer can form the basis of detection and amplification. In another embodiment, a polymer gel swollen with a fluorescent solution, a magnetic solution, a radioactive solution or an electrically conducting solution can form the basis of detection and amplification. In another embodiment, sufficient polymer forms to be detectable by visual inspection.

IPC 8 full level

C12Q 1/70 (2006.01); **C07H 21/02** (2006.01); **C08F 2/48** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/00** (2006.01); **G03F 7/028** (2006.01)

CPC (source: EP)

C12Q 1/6816 (2013.01); **G01N 33/54306** (2013.01); **C12Q 1/6837** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2006031248 A2 20060323; **WO 2006031248 A3 20060803**; EP 1794326 A2 20070613; EP 1794326 A4 20080611

DOCDB simple family (application)

US 2005008807 W 20050316; EP 05725765 A 20050316