

Title (en)  
DEVICE AND METHOD FOR RAPID EVALUATION OF BONDING REACTIONS IN STRUCTURED INTERFEROMETRIC MICROTITRE PLATES

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR SCHNELLEN AUSWERTUNG VON BINDUNGSREAKTIONEN IN STRUKTURIERTEN INTERFEROMETRISCHEN MIKROTITERPLATTEN

Title (fr)  
PROCEDE ET DISPOSITIF D'EVALUATION RAPIDE DE REACTIONS DE LIAISON DANS DES PLAQUES DE MICROTITRATION INTERFEROMETRIQUES

Publication  
**EP 1129336 A1 20010905 (DE)**

Application  
**EP 98966390 A 19981221**

Priority  
• DE 19757706 A 19971223  
• EP 9808390 W 19981221

Abstract (en)  
[origin: DE19757706A1] The invention relates to an interferometric method which makes it possible to determine a modification in the optical density of an adsorbate layer in microtitre plates. The method is based on the integration of laterally structured interference layers into the base of a biofunctionalized microtitre plate. The optical reflection-interference of the plate is imaged and evaluated by means of image processing. The average quadratic difference of standardized intensities is used to determine a modification in the optical density of the adsorbate. The method is highly sensitive, quantitative, economical and robust with respect to external perturbations. One of the substantial advantages is that the ligands do not need to be marked.

IPC 1-7  
**G01N 21/77**; **B01L 3/00**; **G01N 33/543**

IPC 8 full level  
**B01L 3/00** (2006.01); **G01N 21/77** (2006.01); **G01N 33/543** (2006.01)

CPC (source: EP)  
**B01L 3/5085** (2013.01); **G01N 21/77** (2013.01); **G01N 33/543** (2013.01)

Citation (examination)  
US 5629214 A 19970513 - CROSBY MARK [US]

Designated contracting state (EPC)  
AT CH DE FR GB LI NL SE

DOCDB simple family (publication)  
**DE 19757706 A1 19990701**; **DE 19757706 C2 20020124**; AU 2275299 A 19990719; EP 1129336 A1 20010905; WO 9934196 A1 19990708

DOCDB simple family (application)  
**DE 19757706 A 19971223**; AU 2275299 A 19981221; EP 9808390 W 19981221; EP 98966390 A 19981221