

Title (en)  
SYSTEMS AND METHODS FOR MONITORING CHEMICAL AND BIOLOGICAL ACTIVITIES USING DIFFERENTIAL MEASUREMENTS

Title (de)  
SYSTEME UND VERFAHREN ZUR ÜBERWACHUNG CHEMISCHER UND BIOLOGISCHER AKTIVITÄTEN MITTELS DIFFERENTIALMESSUNGEN

Title (fr)  
SYSTEMES ET PROCEDES DE SUIVI D'ACTIVITES CHIMIQUES ET BIOLOGIQUES A L'AIDE DE MESURES DIFFERENTIELLES

Publication  
**EP 1623211 A4 20061025 (EN)**

Application  
**EP 04750558 A 20040423**

Priority  
• US 2004012614 W 20040423  
• US 0313181 W 20030425  
• US 79900004 A 20040311

Abstract (en)  
[origin: WO2004097370A2] A system operable to monitoring bio/chemical activities includes a first measurement probe, a second measurement probe and a comparator. The first measurement probe is operable to interrogate one or more physical properties of a sample at a first location of the sample, and to output, in response, a first measurement signal. The second measurement probe is operable to interrogate one or more physical properties of the sample at a second location of the sample, and to output, in response, a second measurement signal. The comparator is coupled to receive the first and second measurement signals, the comparator configured to output a difference signal comprising the difference between the first and second measurement signals, the difference signal corresponding to the difference in one or more bio/chemical activities occurring at the first location of the sample relative to the second location of the sample.

IPC 8 full level  
**G01N 21/47** (2006.01); **B01J 19/00** (2006.01); **G01D 1/16** (2006.01); **G01N 15/06** (2006.01); **G01N 25/58** (2006.01); **G01N 33/00** (2006.01); **G01N 33/48** (2006.01); **G05B 23/02** (2006.01); **B01L 3/00** (2006.01); **B01L 7/00** (2006.01)

IPC 8 main group level  
**G01N** (2006.01)

CPC (source: EP)  
**B01J 19/0006** (2013.01); **B01J 19/0093** (2013.01); **G01D 1/16** (2013.01); **G05B 23/0237** (2013.01); **B01J 2219/00195** (2013.01); **B01J 2219/0022** (2013.01); **B01J 2219/00229** (2013.01); **B01J 2219/0095** (2013.01); **B01L 3/5027** (2013.01); **B01L 7/52** (2013.01)

Citation (search report)  
• [X] GB 1298245 A 19721129 - VARIAN ASSOCIATES [US]  
• [X] US 5837200 A 19981117 - DIESSEL EDGAR [DE], et al  
• [X] US 5212988 A 19930525 - WHITE RICHARD M [US], et al  
• [X] US 5837115 A 19981117 - AUSTIN ROBERT H [US], et al  
• [X] EP 1211507 A2 20020605 - TOSHIBA KK [JP]  
• [X] EP 0275617 A1 19880727 - AMERICAN MEDISCAN INC [US]  
• [X] PATENT ABSTRACTS OF JAPAN vol. 005, no. 104 (P - 069) 7 July 1981 (1981-07-07)  
• See references of WO 2004097370A2

Citation (examination)  
US 5004583 A 19910402 - GURUSWAMY VINODHINI [US], et al

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004097370 A2 20041111**; **WO 2004097370 A3 20050324**; EP 1623211 A2 20060208; EP 1623211 A4 20061025

DOCDB simple family (application)  
**US 2004012614 W 20040423**; EP 04750558 A 20040423