

Title (en)
THERMO-OPTICAL ANALYSIS SYSTEM FOR BIOCHEMICAL REACTIONS

Title (de)
THERMO-OPTISCHES ANALYSESYSTEM FÜR BIOCHEMISCHE REAKTIONEN

Title (fr)
SYSTEME D'ANALYSE THERMO-OPTIQUE POUR REACTIONS BIOCHIMIQUES

Publication
EP 1419374 A2 20040519 (DE)

Application
EP 02796255 A 20020821

Priority
• CH 15442001 A 20010821
• EP 0209340 W 20020821

Abstract (en)
[origin: WO03019158A2] The invention relates to a reaction device, comprising a sample chamber matrix (1), comprising at least two reaction chambers (2) whose walls are permeable with respect to electromagnetic radiation in an area required for fluorescence measurement; at least one opening (3); a heating device (8a); and a temperature measurement device (8b). The invention also relates to a device (G) for carrying out and detecting chemical reactions, comprising at least one light source (24, 25) which emits electromagnetic radiation in an area required for fluorescence measurement, a detection device (28) for the detection of electromagnetic radiation in an area required for fluorescence measurement, said unit (28) being arranged at a right angle to the at least one light source (24, 25); a control unit comprising a central unit for controlling temperature and the at least one light source (24, 25), in addition to receiving and optionally processing a signal from the detection unit (28); an opening (H) for receiving the above-mentioned reaction device (17), said reaction device (R) being able to communicate with the control unit when inserted, being arranged on the plane of the at least one light source (24, 25) below the detection unit (28). The reaction device (R) and the device (G) are suitable for carrying out and evaluating chemical reactions or biochemical reactions such as a polymerase chain reaction.

IPC 1-7
G01N 21/03; **G01N 21/64**; **B01L 7/00**; **B01J 19/00**; **B01L 3/00**

IPC 8 full level
B01L 7/00 (2006.01); **G01N 21/03** (2006.01); **G01N 21/64** (2006.01)

CPC (source: EP US)
B01L 7/52 (2013.01 - EP US); **G01N 21/0332** (2013.01 - EP US); **G01N 21/6428** (2013.01 - EP US); **G01N 21/645** (2013.01 - EP US); **B01L 2300/1805** (2013.01 - EP US); **B01L 2300/1822** (2013.01 - EP US)

Citation (search report)
See references of WO 03019158A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03019158 A2 20030306; **WO 03019158 A3 20031113**; AU 2002333497 A1 20030310; EP 1419374 A2 20040519; US 2004241691 A1 20041202; US 7521179 B2 20090421

DOCDB simple family (application)
EP 0209340 W 20020821; AU 2002333497 A 20020821; EP 02796255 A 20020821; US 48581904 A 20040312