

Title (en)  
DEVICE FOR CARRYING OUT CHEMICAL OR BIOLOGICAL REACTIONS

Title (de)  
VORRICHTUNG ZUR DURCHFÜHRUNG CHEMISCHER ODER BIOLOGISCHER REAKTIONEN

Title (fr)  
DISPOSITIF POUR REALISER DES REACTIONS CHIMIQUES OU BIOLOGIQUES

Publication  
**EP 1216098 A1 20020626 (DE)**

Application  
**EP 00966090 A 20000929**

Priority  
• DE 29917313 U 19991001  
• EP 0009569 W 20000929

Abstract (en)  
[origin: US9914125B2] The invention relates to a device for carrying out chemical or biological reactions, having a reaction vessel receiving element for receiving a microtiter plate with several reaction vessels, where the reaction vessel receiving element has several recesses arranged in a regular pattern to receive the respective reaction vessels, a treating device for heating the reaction vessel receiving element, and a cooling device for cooling the reaction vessel receiving element. The reaction vessel receiving element is divided into several segments so that the individual segments are thermally decoupled from one another, and each segment is assigned a heating device which can be actuated independently of the others. By means of the segmentation of the reaction vessel receiving element, it is possible for zones to be set and held at different temperatures. Since the reaction vessel receiving element is suitable for receiving standard microtiter plates, the device according to the invention may be integrated in existing process sequences.

IPC 1-7  
**B01L 3/00**; **B01L 7/00**

IPC 8 full level  
**F25B 21/02** (2006.01); **B01J 19/00** (2006.01); **B01L 3/00** (2006.01); **B01L 7/00** (2006.01); **B01L 7/04** (2010.01); **C12M 1/00** (2006.01); **C12M 1/38** (2006.01)

CPC (source: EP KR US)  
**B01L 3/00** (2013.01 - KR); **B01L 7/52** (2013.01 - EP US); **B01L 7/54** (2013.01 - EP US); **B01L 2200/147** (2013.01 - EP US); **B01L 2300/0829** (2013.01 - EP US); **B01L 2300/1822** (2013.01 - EP US)

Cited by  
US10512915B2; US8859271B2; US10010887B2; EP2898952A1; JP2007515944A

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL

DOCDB simple family (publication)  
**DE 29917313 U1 20010215**; AT E245487 T1 20030815; AU 7660500 A 20010510; AU 774199 B2 20040617; DE 50003023 D1 20030828; EP 1216098 A1 20020626; EP 1216098 B1 20030723; JP 2003511221 A 20030325; KR 100696138 B1 20070320; KR 20020038765 A 20020523; NO 20021340 D0 20020318; NO 20021340 L 20020318; US 2007110634 A1 20070517; US 2007140926 A1 20070621; US 2010120099 A1 20100513; US 2010120100 A1 20100513; US 2012264206 A1 20121018; US 2014030170 A1 20140130; US 7611674 B2 20091103; US 8389288 B2 20130305; US 8721972 B2 20140513; US 9914125 B2 20180313; WO 0124930 A1 20010412

DOCDB simple family (application)  
**DE 29917313 U 19991001**; AT 00966090 T 20000929; AU 7660500 A 20000929; DE 50003023 T 20000929; EP 0009569 W 20000929; EP 00966090 A 20000929; JP 2001527919 A 20000929; KR 20027003719 A 20020316; NO 20021340 A 20020318; US 201213471380 A 20120514; US 201314042069 A 20130930; US 65198507 A 20070111; US 65198607 A 20070111; US 68921210 A 20100118; US 68921410 A 20100118