

Title (en)  
CARTRIDGE FOR CONDUCTING A CHEMICAL REACTION

Title (de)  
PATRONE ZUM DURCHFÜHREN EINER CHEMISCHEN REAKTION

Title (fr)  
CARTOUCHE SERVANT A EFFECTUER UNE REACTION CHIMIQUE

Publication  
**EP 1181098 B2 20110706 (EN)**

Application  
**EP 00937894 A 20000530**

Priority  

- US 0014739 W 20000530
- US 13670399 P 19990528
- US 46972499 A 19991221

Abstract (en)  
[origin: WO0072970A1] A cartridge (20) for conducting a chemical reaction includes a body having at least one flow path formed therein. The cartridge also includes a reaction vessel (40) extending from the body for holding a reaction mixture for chemical reaction and optical detection. The vessel (40) comprises a rigid frame defining the side walls of a reaction chamber. The frame includes at least one channel connecting the flow path to the chamber. The vessel also includes flexible films or sheets attached to opposite sides of the rigid frame to form opposing major walls of the chamber. In addition, at least two of the side walls are optically transmissive and angularly offset from each to permit real-time optical detection of analyte in the reaction chamber.

IPC 8 full level  
**B01L 3/00** (2006.01); **G01N 33/48** (2006.01); **B01J 19/00** (2006.01); **B01J 19/24** (2006.01); **B01L 7/00** (2006.01); **C12M 1/00** (2006.01); **C12M 1/26** (2006.01); **G01N 33/483** (2006.01); **G01N 35/08** (2006.01)

CPC (source: EP)  
**B01L 3/502** (2013.01); **B01L 7/52** (2013.01); **B01L 3/5027** (2013.01); **B01L 2200/10** (2013.01); **B01L 2300/0654** (2013.01); **B01L 2300/0681** (2013.01); **B01L 2300/0816** (2013.01); **B01L 2300/087** (2013.01); **B01L 2400/0487** (2013.01); **B01L 2400/0622** (2013.01); **B01L 2400/0644** (2013.01)

Citation (opposition)  
Opponent :  

- EP 0318255 A2 19890531 - EASTMAN KODAK CO [US]
- US 5229297 A 19930720 - SCHNIPELSKY PAUL N [US], et al

Cited by  
CN113412157A; US8512637B2; US8441629B2; US11745177B2; US9079182B2; WO2020154601A1; US8641971B2; US8986612B2; US9097626B2; WO2020146583A1

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

DOCDB simple family (publication)  
**WO 0072970 A1 20001207**; AT E333938 T1 20060815; AU 5300900 A 20001218; AU 781122 B2 20050505; CA 2373198 A1 20001207; CA 2373198 C 20111011; DE 60029582 D1 20060907; DE 60029582 T2 20070712; DE 60029582 T3 20120308; DK 1181098 T3 20061227; DK 1181098 T4 20110926; EP 1181098 A1 20020227; EP 1181098 B1 20060726; EP 1181098 B2 20110706; ES 2272289 T3 20070501; ES 2272289 T5 20111021; JP 2003500674 A 20030107; JP 2009282041 A 20091203; JP 4495866 B2 20100707; JP 4800412 B2 20111026

DOCDB simple family (application)  
**US 0014739 W 20000530**; AT 00937894 T 20000530; AU 5300900 A 20000530; CA 2373198 A 20000530; DE 60029582 T 20000530; DK 00937894 T 20000530; EP 00937894 A 20000530; ES 00937894 T 20000530; JP 2000621073 A 20000530; JP 2009180791 A 20090803