

Title (en)

MULTI-MEASUREMENT FLOW CELL ASSEMBLY FOR LIQUID CHROMATOGRAPHY

Title (de)

MEHRMESSUNGSDURCHFLUSSZELLENANORDNUNG FÜR DIE FLÜSSIGCHROMATOGRAPHIE

Title (fr)

ENSEMBLE CUVE À CIRCULATION DE MULTI-MESURE POUR CHROMATOGRAPHIE EN PHASE LIQUIDE

Publication

**EP 2972154 A4 20161116 (EN)**

Application

**EP 14764986 A 20140515**

Priority

- US 201361794081 P 20130315
- US 201361824219 P 20130516
- US 201461953284 P 20140314
- US 2014038070 W 20140515

Abstract (en)

[origin: WO2014146147A2] A detector for detecting constituents of a liquid for use in liquid chromatography is disclosed. The detector includes a first optical flow cell body and a second optical flow cell body, each having a channel therethrough that allows passage of a liquid from an inlet port to an outlet port. The first and second optical flow cell bodies are arranged in series such that the liquid exiting the outlet port of the first optical flow cell body enters the inlet port of the second optical flow cell body. An insulator resides between the first optical flow cell body and the second optical flow cell body, which is adapted to electrically insulate the first optical flow cell body from the second optical flow cell body while allowing the liquid to pass from the first optical flow cell body to the second optical flow cell body. The first optical flow cell body is adapted to facilitate measurement of absorption by the liquid of a first wavelength of light, and second optical flow cell body is adapted to facilitate measurement of absorption by the liquid of a second wavelength of light. The first and second optical flow cell bodies are further adapted to perform as electrodes for measuring the conductivity of the liquid.

IPC 8 full level

**G01J 3/30** (2006.01); **G01N 21/05** (2006.01); **G01N 21/64** (2006.01); **G01N 30/64** (2006.01); **G01N 30/74** (2006.01)

CPC (source: EP)

**G01N 21/05** (2013.01); **G01N 30/74** (2013.01); **G01N 2201/0668** (2013.01)

Citation (search report)

- [XYI] EP 0143901 A1 19850612 - PERKIN ELMER CORP [US]
- [A] WO 2004044561 A1 20040527 - VARIAN AUSTRALIA [AU], et al
- [Y] JANECEK M ET AL: "Simultaneous photometric and conductivity detection for microcolumn liquid chromatography", JOURNAL OF CHROMATOGRAPHY, ELSEVIER SCIENCE PUBLISHERS B.V, NL, vol. 471, 2 June 1989 (1989-06-02), pages 303 - 309, XP026475702, ISSN: 0021-9673, [retrieved on 19890602], DOI: 10.1016/S0021-9673(00)94178-5
- See references of WO 2014146147A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2014146147 A2 20140918; WO 2014146147 A3 20150108; EP 2972154 A2 20160120; EP 2972154 A4 20161116**

DOCDB simple family (application)

**US 2014038070 W 20140515; EP 14764986 A 20140515**