

Title (en)
HIGHLY-SELECTIVE TANDEM CHEMICAL SENSOR AND DETECTION METHOD USING SAME

Title (de)
HOCHSELEKTIVER CHEMISCHER TANDEM-SENSOR UND NACHWEISVERFAHREN DAMIT

Title (fr)
CAPTEUR CHIMIQUE TANDEM HAUTEMENT SELECTIF ET PROCEDE DE DETECTION UTILISANT CE CAPTEUR

Publication
EP 1714140 A1 20061025 (FR)

Application
EP 05716653 A 20050209

Priority
• EP 2005050573 W 20050209
• FR 0401395 A 20040212

Abstract (en)
[origin: FR2866429A1] A new chemical trapping system for detecting a class of molecules (A), comprising fluorescent material (I) which can form a charge transfer complex with (A) and detectors for variation in the fluorescence of the material, additionally contains a filter comprising a polymer (II) having molecular imprint cavities having a defined geometric and chemical configuration for fixing (A). An independent claim is included for a corresponding detection method involving: (1) trapping (A) in (II); (2) desorbing (A) using a secondary gas flow; (3) forming a complex of (A) with (I), by circulating the gas flow charged with (A) through (I); and (4) measuring the variation in fluorescence between (I) and the (I)-(A) complex.

IPC 8 full level
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Citation (search report)
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FR 2866429 A1 20050819; FR 2866429 B1 20060721; EP 1714140 A1 20061025; US 2007148696 A1 20070628; WO 2005088279 A1 20050922

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