

Title (en)
DYE DESORPTION MOLECULAR INDICATOR

Title (de)
MOLEKULARER INDIKATOR FÜR DIE DESORPTION EINES FARBSTOFFES

Title (fr)
INDICATEUR MOLECULAIRE DE DESORPTION DE COLORANT

Publication
EP 1097366 A4 20020904 (EN)

Application
EP 99938720 A 19990709

Priority
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• US 9239498 P 19980710

Abstract (en)
[origin: WO0003226A1] A method of broad screen detection, competitive dye desorption from a solid adsorbent, is described for quantifying the presence of a molecule or target analyte in the vapor phase, in solution, or eluted from a solid. In the function of an analytical element for implementing the competitive dye desorption method of the invention, dye or dye-precursor molecules adsorbed on the surface of an adsorbent are caused to desorb through the adsorption of the target analyte on the adsorbent. The desorbed dye or precursor is made detectable through sequestering of a radiation detectable species in the device of the invention. Such detection may occur, e.g., through absorption or emission of radiation in regions of the spectrum extending from the ultra-violet through the visible and into the infra-red regions. In one aspect of the invention, these processes occur within a multi-layer analytical element, in which the functions of the device may be executed by different layers.

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CPC (source: EP)
G01J 1/48 (2013.01); **G01N 21/78** (2013.01)

Citation (search report)
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• [A] US 5340748 A 19940823 - BAUGHER BENNETT W [US], et al
• [A] US 4356149 A 19821026 - KITAJIMA MASAO, et al
• [DA] US 3992158 A 19761116 - PRZYBYLOWICZ EDWIN P, et al
• See references of WO 0003226A1

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CN107687018A

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