

Title (en)

METHOD AND APPARATUS FOR PERFORMING SERS ANALYSIS USING A CHEMICAL REFERENCE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DURCHFÜHRUNG VON SERS-UNTERSUCHUNGEN MITTELS CHEMISCHER REFERENZ

Title (fr)

PROCEDE ET APPAREIL PERMETTANT D'EFFECTUER UNE ANALYSE SERS AU MOYEN D'UNE REFERENCE CHIMIQUE

Publication

**EP 1754046 A4 20080402 (EN)**

Application

**EP 05804843 A 20050525**

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Abstract (en)

[origin: WO2005119219A2] Apparatus for use in effecting surface-enhanced Raman spectroscopy comprises first and second containment means, the first containment means containing a known quantity of a reference chemical having an effective surface-enhanced Raman factor, and the second containment means containing a surface-enhanced Raman-active medium and being sufficiently transparent, at least at one optical access location, to permit both the excitation irradiation of, and also the collection of surface-enhanced Raman scattered radiation from, a common field of view of the surface-enhanced Raman-active medium. The apparatus is constructed for carrying out the method of the invention; i.e., for effecting intimate mixing, substantially prior to introduction to the surface-enhanced Raman-active medium contained in the second containment means, of the reference chemical with an analyte chemical-containing solution introduced through an entrance into the first containment means. The homogeneous test solution so formed permeates the SER-active material in the second containment means, which is irradiated at the common field of view so as to produce SER scattered radiation for collection and quantitative analysis.

IPC 8 full level

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Citation (search report)

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- See references of WO 2005119219A2

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