

Title (en)

CHEMICAL ENHANCEMENT IN SURFACE ENHANCED RAMAN SCATTERING USING LITHIUM CHLORIDE

Title (de)

CHEMISCHE VERSTÄRKUNG BEI OBERFLÄCHENVERSTÄRKTER RAMAN-STREUUNG UNTER VERWENDUNG VON LITHIUMCHLORID

Title (fr)

AMELIORATION CHIMIQUE DANS LA DIFFUSION RAMAN EXALTEE DE SURFACE AU MOYEN DE SELS DE LITHIUM

Publication

EP 1606610 A2 20051221 (EN)

Application

EP 04749311 A 20040204

Priority

US 2004002989 W 20040204

Abstract (en)

[origin: WO2004085988A2] The intensity of the signals from surface enhanced Raman spectroscopy is increased by using lithium chloride (122) as an enhancer to activate a metallic structure (212) used for surface enhanced Raman spectroscopy (116). The increased signal intensity allows surface enhanced Raman spectroscopy to be utilized to detect individual analytes (120) such as nucleotides, for example in DNA sequencing without requiring a dye or radioactive label.

IPC 1-7

G01N 21/65

IPC 8 full level

G01J 3/44 (2006.01); **G06F 11/00** (2006.01); **G06F 11/07** (2006.01)

CPC (source: EP)

B82Y 15/00 (2013.01); **G01J 3/44** (2013.01); **G01N 21/658** (2013.01); **C12Q 1/6825** (2013.01)

Citation (search report)

See references of WO 2004085988A2

Citation (examination)

- WO 03008539 A2 20030130 - UNIV NORTHWESTERN [US], et al
- KOMPAN M E ET AL.: "Enhancement of Raman scattering intensity in porous silicon", PHYSICS OF THE SOLID STATE, vol. 41, no. 7, July 1999 (1999-07-01), pages 1207 - 1209, XP019309665

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 2004085988 A2 20041007; **WO 2004085988 A3 20041104**; CN 1934438 A 20070321; EP 1606610 A2 20051221; JP 2006514309 A 20060427; JP 4603487 B2 20101222

DOCDB simple family (application)

US 2004002989 W 20040204; CN 200480006205 A 20040204; EP 04749311 A 20040204; JP 2005518574 A 20040204