

Title (en)

SINGLE TRACE MULTI-CHANNEL LOW COHERENCE INTERFEROMETRIC SENSOR

Title (de)

EINKURVEN-MEHRKANAL-INTERFEROMETRIESENSOR MIT NIEDRIGER KOHÄRENZ

Title (fr)

DETECTEUR INTERFEROMETRIQUE A FAIBLE COHERENCE, A CANAUX MULTIPLES ET A TRACE UNIQUE

Publication

**EP 1831638 A4 20080123 (EN)**

Application

**EP 04801057 A 20041112**

Priority

US 2004038082 W 20041112

Abstract (en)

[origin: WO2006054975A1] Interferometer and autocorrelator based sensors are disclosed that are configured to have multiple sample arms (1410, 1414, 1418) which can be scanned and the backscattered low coherence light from a sample resolved in a single sweep of one or more variable delays (1458, 1464) of the sensor. Borescopes and catheters capable of scanning multiple sections or areas of materials and tissues using these sensors are described.

IPC 8 full level

**G01B 9/02** (2006.01)

CPC (source: EP)

**A61B 5/0066** (2013.01); **A61B 5/6852** (2013.01); **G01B 9/02007** (2013.01); **G01B 9/02027** (2013.01); **G01B 9/0205** (2013.01); **G01B 9/02057** (2013.01); **G01B 9/02064** (2013.01); **G01B 9/02082** (2013.01); **G01B 9/0209** (2013.01); **G01N 21/4795** (2013.01); **A61B 5/7203** (2013.01)

Citation (search report)

- [XAY] US 5465147 A 19951107 - SWANSON ERIC A [US]
- [Y] JP 2001330409 A 20011130 - NIKON CORP
- [YA] DE 10053447 A1 20010705 - ASAHI OPTICAL CO LTD [JP]
- [XAY] WO 0204889 A1 20020117 - BOSCH GMBH ROBERT [DE], et al
- See references of WO 2006054975A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK YU

DOCDB simple family (publication)

**WO 2006054975 A1 20060526**; EP 1831638 A1 20070912; EP 1831638 A4 20080123

DOCDB simple family (application)

**US 2004038082 W 20041112**; EP 04801057 A 20041112