

Title (en)

SENSOR APPARATUS, METHOD FOR CALIBRATING A SENSOR APPARATUS AND METHOD FOR CAPTURING A MEASURED VARIABLE

Title (de)

SENSORVORRICHTUNG, VERFAHREN ZUM KALIBRIEREN EINER SENSORVORRICHTUNG UND VERFAHREN ZUM ERFASSEN EINER MESSGRÖßE

Title (fr)

DISPOSITIF CAPTEUR, PROCÉDÉ D'ÉTALONNAGE D'UN DISPOSITIF CAPTEUR ET PROCÉDÉ DE DÉTECTION D'UNE GRANDEUR DE MESURE

Publication

**EP 3469388 A1 20190417 (DE)**

Application

**EP 17722413 A 20170503**

Priority

- DE 102016210259 A 20160610
- EP 2017060490 W 20170503

Abstract (en)

[origin: WO2017211504A1] The invention relates to a sensor apparatus (800). The sensor apparatus (800) has a crystal body (810) with at least one defect. Moreover, the sensor apparatus (800) has a light source (820) for irradiating the crystal body (810) with excitation light (210). Further, the sensor apparatus (800) has at least one microwave antenna (830) for applying microwaves onto the crystal body (810). Moreover, the sensor apparatus (800) has a detection device (840, 850, 855) for detecting at least one signal property of a fluorescence signal (220) from the crystal body (810). The sensor apparatus (800) also has an application device (860, 870, 880) which is embodied to apply a microwave signal for producing the microwaves and a magnetic field signal for generating an internal magnetic field, which can be applied to the crystal body (810), to the at least one microwave antenna (830).

IPC 8 full level

**G01R 33/032** (2006.01)

CPC (source: EP)

**G01R 33/032** (2013.01)

Citation (search report)

See references of WO 2017211504A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102016210259 A1 20171214**; **DE 102016210259 B4 20211202**; CN 109219756 A 20190115; EP 3469388 A1 20190417; WO 2017211504 A1 20171214

DOCDB simple family (application)

**DE 102016210259 A 20160610**; CN 201780035460 A 20170503; EP 17722413 A 20170503; EP 2017060490 W 20170503