Title (en)

OPTICAL SENSOR DEVICE, METHOD FOR ADJUSTING A SPECTRAL RESOLUTION OF AN OPTICAL SENSOR DEVICE AND SPECTRAL MEASUREMENT METHOD

Title (de)

OPTISCHE SENSORVORRICHTUNG, VERFAHREN ZUM EINSTELLEN EINER SPEKTRALEN AUFLÖSUNG EINER OPTISCHEN SENSORVORRICHTUNG UND SPEKTRALES MESSVERFAHREN

Title (fr)

SYSTÈME DE DÉTECTION OPTIQUE, PROCÉDÉ D'AJUSTEMENT DE LA RÉSOLUTION SPECTRALE D'UN SYSTÈME DE DÉTECTION OPTIQUE ET PROCÉDÉ DE MESURE SPECTRALE

Publication

EP 3519783 A2 20190807 (DE)

Application

EP 17752399 A 20170817

Priority

- DE 102016218578 A 20160927
- EP 2017070840 W 20170817

Abstract (en)

[origin: WO2018059827A2] The invention relates to an optical sensor device comprising a linear variable filter (10) with a predetermined axis (12) along which a passband wavelength of the linear variable filter (10) linearly varies within a range of values limited by a minimum passband wavelength and a maximum passband wavelength, and a detection device (18) having a detection surface (20) on which an array of sensor pixels (22) is configured in such a way that each of the sensor pixels (22) can output or tap a sensor signal (24) with respect to a light intensity which is incident on the respective sensor pixel (24), said detection device (18) being arranged with respect to the linear variable filter (10) such that light beams transmitted through the linear variable filter (10) are incident on the detection surface (20). The invention also relates to a method for adjusting a spectral resolution of an optical sensor device. The invention further relates to a spectral measurement method.

IPC 8 full level

G01J 3/02 (2006.01); G01J 3/12 (2006.01); G01J 3/26 (2006.01); G01J 3/28 (2006.01)

CPC (source: EP)

G01J 3/0235 (2013.01); G01J 3/0289 (2013.01); G01J 3/26 (2013.01); G01J 3/2823 (2013.01); G01J 2003/1221 (2013.01); G01J 2003/1234 (2013.01)

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 102016218578 A1 20180329; CN 109791074 A 20190521; CN 109791074 B 20211217; EP 3519783 A2 20190807; WO 2018059827 A2 20180405; WO 2018059827 A3 20180607

DOCDB simple family (application)

DE 102016218578 A 20160927; CN 201780059641 A 20170817; EP 17752399 A 20170817; EP 2017070840 W 20170817