

Title (en)

OPTICAL SPECTRAL SENSOR AND A METHOD FOR PRODUCING AN OPTICAL SPECTRAL SENSOR

Title (de)

OPTISCHER SPEKTRALSENSOR UND EIN VERFAHREN ZUM HERSTELLEN EINES OPTISCHEN SPEKTRALSENSORS

Title (fr)

CAPTEUR SPECTRAL OPTIQUE ET PROCÉDÉ DE FABRICATION D'UN CAPTEUR SPECTRAL OPTIQUE

Publication

EP 2100108 A1 20090916 (DE)

Application

EP 07786471 A 20070731

Priority

- EP 2007006777 W 20070731
- DE 102006036003 A 20060802

Abstract (en)

[origin: WO2008014983A1] The invention relates to an optical spectral sensor for determining the spectral information of incident light, in particular in the visible and infrared spectral range, with at least one optoelectronic semiconductor arrangement and at least one metal film, which is surrounded by a dielectric, wherein the metal film has a periodic pattern, wherein the at least one optoelectronic semiconductor arrangement and the at least one patterned metal film are arranged in such a way that light to be detected initially passes through the patterned metal film and then impinges on the optoelectronic semiconductor arrangement, wherein the optical spectral sensor is formed in such a way that the spectral sensitivity is determined essentially by the optical properties of the patterned metal film.

IPC 8 full level

G01J 3/02 (2006.01); **G01J 3/12** (2006.01); **H01L 31/0224** (2006.01); **H01L 31/0232** (2006.01)

CPC (source: EP US)

G01J 3/02 (2013.01 - EP US); **G01J 3/0259** (2013.01 - EP US); **G01J 3/12** (2013.01 - EP US); **G01J 2003/1213** (2013.01 - EP US); **H01L 27/14643** (2013.01 - EP US)

Citation (search report)

See references of WO 2008014983A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2008014983 A1 20080207; EP 2100108 A1 20090916; US 2009323060 A1 20091231

DOCDB simple family (application)

EP 2007006777 W 20070731; EP 07786471 A 20070731; US 30989707 A 20070731