

Title (en)
SENSOR AND SENSOR DEVICE FOR DETERMINING A RADIATION DOSE, READ-OUT DEVICE FOR READING OUT A SENSOR, AND METHOD FOR DETERMINING A RADIATION DOSE

Title (de)
SENSOR UND SENSORVORRICHTUNG ZUM ERMITTELN EINER STRAHLUNGSDOSIS, AUSLESEVORRICHTUNG ZUM AUSLESEN EINES SENSORS UND EIN VERFAHREN ZUM ERMITTELN VON EINER STRAHLUNGSDOSIS

Title (fr)
CAPTEUR ET DISPOSITIF DE CAPTEUR POUR LA DÉTERMINATION D'UNE DOSE DE RAYONNEMENT, DISPOSITIF DE LECTURE POUR LA LECTURE D'UN CAPTEUR, ET PROCÉDÉ DE DÉTERMINATION D'UNE DOSE DE RAYONNEMENT

Publication
EP 4327132 A1 20240228 (DE)

Application
EP 22723351 A 20220413

Priority
• DE 102021109797 A 20210419
• EP 2022059880 W 20220413

Abstract (en)
[origin: WO2022223397A1] The invention relates to a sensor and a sensor device for determining a radiation dose, to a read-out device for reading out a sensor, and to a method for determining a radiation dose, the sensor (110) comprising an organic material, the organic material having a radiation-dose-dependent light emission characteristic such that a characteristic light emission is produced by the organic material as soon as the organic material has accumulated a radiation dose greater than a characteristic limit radiation dose (172), and the sensor (110) being designed in such away that the difference between the characteristic limit radiation dose (172) and a radiation dose accumulated in the material represents a radiation dose to be determined.

IPC 8 full level
G01T 1/10 (2006.01); **F21K 2/08** (2006.01); **G01J 1/58** (2006.01); **G06K 19/06** (2006.01)

CPC (source: EP KR US)
C09K 11/06 (2013.01 - EP KR); **G01J 1/48** (2013.01 - EP KR); **G01J 1/58** (2013.01 - EP KR); **G01T 1/02** (2013.01 - EP); **G01T 1/10** (2013.01 - EP KR); **G01T 1/105** (2013.01 - US); **G01T 7/005** (2013.01 - KR)

Citation (search report)
See references of WO 2022223397A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102021109797 A1 20221020; EP 4327132 A1 20240228; KR 20230172555 A 20231222; US 2024045082 A1 20240208; WO 2022223397 A1 20221027

DOCDB simple family (application)
DE 102021109797 A 20210419; EP 2022059880 W 20220413; EP 22723351 A 20220413; KR 20237039462 A 20220413; US 202218264460 A 20220413