

Title (en)

PLASTIC SCINTILLATOR BASED ON AN ORGANIC POLYADDITION PRODUCT

Title (de)

KUNSTSTOFF-SZINTILLATOR AUF BASIS EINES ORGANISCHEN POLYADDITIONSPRODUKTS

Title (fr)

SCINTILLATEURS PLASTIQUES À BASE D'UN PRODUIT DE POLYADDITION ORGANIQUE

Publication

EP 3676305 A1 20200708 (DE)

Application

EP 18762055 A 20180827

Priority

- DE 102017119683 A 20170828
- EP 2018072982 W 20180827

Abstract (en)

[origin: WO2019042920A1] In transparent moulded bodies for use as a scintillators during the measurement of the type and intensity of ionising and non-ionising radiation, containing an organic polymer and preferably at least one additive, which emits a scintillation beam in the range of UV to IR light under the influence of ionising and/or non-ionising radiation, the aim is to improve optical and mechanical properties, robustness with respect to environmental influences and manufacturability. This is achieved in that a polyaddition product of multifunctional isocyanates and one or more multifunctional hardener components is contained as at least some of the organic polymer.

IPC 8 full level

C08G 18/48 (2006.01); **C08G 18/75** (2006.01); **C08G 18/76** (2006.01); **C09K 11/00** (2006.01); **G01T 1/203** (2006.01); **G01T 3/06** (2006.01)

CPC (source: EP US)

C08G 18/12 (2013.01 - US); **C08G 18/4879** (2013.01 - EP US); **C08G 18/755** (2013.01 - EP US); **C08G 18/7642** (2013.01 - EP US); **C08G 18/765** (2013.01 - EP US); **G01T 1/203** (2013.01 - EP US); **G01T 1/2033** (2013.01 - US); **G01T 3/06** (2013.01 - EP US); **C09K 2211/1425** (2013.01 - EP US); **G21K 2004/08** (2013.01 - EP US)

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 102017119683 A1 20190228; CN 111051376 A 20200421; EP 3676305 A1 20200708; RU 2020111581 A 20211004; RU 2020111581 A3 20220120; US 11914085 B2 20240227; US 2020249362 A1 20200806; US 2024159923 A1 20240516; WO 2019042920 A1 20190307

DOCDB simple family (application)

DE 102017119683 A 20170828; CN 201880055481 A 20180827; EP 18762055 A 20180827; EP 2018072982 W 20180827; RU 2020111581 A 20180827; US 201816641774 A 20180827; US 202418416804 A 20240118