

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)

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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