

Title (en)

ADDITIVE FOR PHOTOCATALYTIC PAINTS WITH ACTIVATION IN VISIBLE SPECTRUM

Title (de)

ZUSATZSTOFF FÜR PHOTOKATALYTISCHE FARBEN MIT AKTIVIERUNG IM SICHTBAREN SPEKTRUM

Title (fr)

ADDITIF POUR PEINTURES PHOTOCATALYTIQUES À ACTIVATION DANS LE SPECTRE VISIBLE

Publication

**EP 4117813 A1 20230118 (EN)**

Application

**EP 20722377 A 20200312**

Priority

IB 2020052240 W 20200312

Abstract (en)

[origin: WO2021181136A1] The invention relates to a process for the preparation of a photo- catalytic material based on 6-phenyl-1, 3, 5-triazine-2, 4-diamine and TiO<sub>2</sub>. The material can be used to degrade contaminants and pollutants in liquids or gases as well as on solids and is efficient in visible light. Then it can be applied as a powder as such dispersed in water or can be formulated as a paint for interiors and exteriors. The photo-catalytic material can be used in construction, ceramic and automotive industry, environmental engineering, for air conditioning equipment, air purification and sterilization equipment, and in purification of water, in particular drinking water for example for antibacterial and antiviral purposes.

IPC 8 full level

**B01J 21/06** (2006.01); **B01J 35/00** (2006.01); **C09D 1/00** (2006.01); **C09D 7/61** (2018.01)

CPC (source: EP)

**B01J 21/063** (2013.01); **B01J 35/39** (2024.01); **B01J 37/0215** (2013.01); **B01J 37/08** (2013.01); **B01J 37/16** (2013.01); **C02F 1/725** (2013.01); **C09D 5/024** (2013.01); **C09D 7/63** (2017.12); **C02F 1/32** (2013.01); **C02F 2305/023** (2013.01); **C02F 2305/10** (2013.01); **C08K 5/3462** (2013.01)

Citation (search report)

See references of WO 2021181136A1

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)

**WO 2021181136 A1 20210916**; EP 4117813 A1 20230118

DOCDB simple family (application)

**IB 2020052240 W 20200312**; EP 20722377 A 20200312