

Title (en)

METAL OR METALIZED FABRICS COATED WITH NANOSTRUCTURED TITANIUM DIOXIDE

Title (de)

MIT NANOSTRUKTURIERTEM TITANDIOXID BESCHICHTETE METALL- ODER METALLISIERTE STOFFE

Title (fr)

TISSUS MÉTALLIQUES OU MÉTALLISÉS REVÊTUS DE DIOXYDE DE TITANE NANOSTRUCTURÉ

Publication

EP 2035111 A2 20090318 (EN)

Application

EP 07805657 A 20070622

Priority

- IT 2007000445 W 20070622
- IT MI20061230 A 20060626

Abstract (en)

[origin: WO2008001405A2] A filtration device comprising at least a metallic or metallized fabric at least partially coated with nanostructured titania in which at least 10% of said titania is anatase, is provided. Owing to titania photocatalytic activity, this device finds application in the decontamination of fluids polluted with organic or inorganic substances. The advantage resulting from the use of such fabrics coated according to the invention is the large active surface area in contact with the fluids to be decontaminated together with the photocatalytic activity of the titania coating, as well as the possibility to suitably reactivate such devices.

IPC 8 full level

B01D 39/00 (2006.01); **C02F 1/28** (2006.01); **C02F 1/32** (2006.01); **C02F 9/00** (2006.01)

CPC (source: EP)

B01D 39/12 (2013.01); **B01D 39/2055** (2013.01); **B01J 21/063** (2013.01); **B01J 35/39** (2024.01); **B82Y 30/00** (2013.01); **C02F 9/00** (2013.01); **B01D 2239/0258** (2013.01); **B01D 2239/0478** (2013.01); **B01D 2239/0485** (2013.01); **B01D 2239/0613** (2013.01); **B01D 2239/065** (2013.01); **C02F 1/281** (2013.01); **C02F 1/30** (2013.01); **C02F 1/32** (2013.01)

Citation (search report)

See references of WO 2008001405A2

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 2008001405 A2 20080103; **WO 2008001405 A3 20080320**; **WO 2008001405 A8 20080508**; EP 2035111 A2 20090318; IT MI20061230 A1 20071227

DOCDB simple family (application)

IT 2007000445 W 20070622; EP 07805657 A 20070622; IT MI20061230 A 20060626