

Title (en)

FLAME RESISTANT SPUN STAPLE YARNS MADE FROM BLENDS OF FIBERS DERIVED FROM SULFONATED NAPHTHALENE POLYOXADIAZOLE POLYMERS

Title (de)

SCHWER ENTFLAMMBARE GESPONNENE STAPELGARNE AUS MISCHUNGEN AUS FASERN AUS SULFONIERTEN NAPHTHALENPOLYOXADIAZOLPOLYMEREN

Title (fr)

FILS DISCONTINUS FILÉS IGNIFUGES CONSTITUÉS DE MÉLANGES DE FIBRES DÉRIVÉES DE POLYMÈRES DE NAPHTALÈNE POLYOXADIAZOLE SULFONATÉ

Publication

EP 2861789 B1 20200909 (EN)

Application

EP 13783124 A 20130611

Priority

- US 201261660115 P 20120615
- US 2013045127 W 20130611

Abstract (en)

[origin: WO2014007948A2] Described is a flame-resistant spun yarn having: about 50 to about 95 parts by weight of a sulfonated naphthalene polyoxadiazole based staple fiber comprising repeat units of Formula (I) and one or both of Formula (II) and (IIa) wherein Q is H or SO₃M, and M is one or more cations; and about 5 to about 50 parts by weight of a textile staple fiber having limiting oxygen index of 24 or greater and a tenacity of about 2 grams per denier or greater, based on the total amount of the polymeric fiber and the textile fiber in the yarn.

IPC 8 full level

D02G 3/04 (2006.01); **D01F 6/74** (2006.01); **D01F 6/78** (2006.01); **D02G 3/44** (2006.01)

CPC (source: CN EP)

D01F 6/74 (2013.01 - CN EP); **D01F 6/78** (2013.01 - CN EP); **D02G 3/04** (2013.01 - CN); **D02G 3/045** (2013.01 - CN); **D02G 3/44** (2013.01 - CN); **D02G 3/443** (2013.01 - CN EP)

Cited by

CN111424353A

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

DOCDB simple family (publication)

WO 2014007948 A2 20140109; WO 2014007948 A3 20140530; CN 104540987 A 20150422; CN 104540987 B 20180828; EP 2861789 A2 20150422; EP 2861789 B1 20200909; JP 2015526601 A 20150910; JP 6112683 B2 20170412

DOCDB simple family (application)

US 2013045127 W 20130611; CN 201380041417 A 20130611; EP 13783124 A 20130611; JP 2015517350 A 20130611