

Title (en)

ACTIVE CONTAINING FIBROUS STRUCTURES WITH MULTIPLE REGIONS HAVING DIFFERING DENSITIES

Title (de)

WIRKSTOFFHALTIGE FASERSTRUKTUREN MIT MEHREREN REGIONEN VERSCHIEDENER DICHTEN

Title (fr)

STRUCTURES FIBREUSES CONTENANT DES PRINCIPES ACTIFS ET PRÉSENTANT DE MULTIPLES ZONES AYANT DES DENSITÉS DIFFÉRENTES

Publication

EP 3369845 B1 20200325 (EN)

Application

EP 18158889 A 20130103

Priority

- US 201261583011 P 20120104
- EP 13700348 A 20130103
- US 2013020006 W 20130103

Abstract (en)

[origin: US2013171421A1] A fibrous structure including filaments wherein the filaments comprise one or more filament-forming materials and one or more active agents that are releasable from the filament when exposed to conditions of intended use, the fibrous structure further having at least two regions with different properties, in particular wherein each region has different average densities. Methods of treating fabrics with a fibrous structure are also provided herein.

IPC 8 full level

D01F 1/10 (2006.01); **C11D 17/04** (2006.01); **D04H 1/736** (2012.01)

CPC (source: CN EP GB US)

A47L 13/17 (2013.01 - GB); **C11D 17/04** (2013.01 - GB); **C11D 17/042** (2013.01 - EP US); **C11D 17/044** (2013.01 - CN); **C11D 17/047** (2013.01 - EP US); **D01F 1/10** (2013.01 - CN EP US); **D04H 1/70** (2013.01 - US); **D04H 1/736** (2013.01 - EP US); **D04H 3/00** (2013.01 - CN); **D04H 13/00** (2013.01 - GB); **Y10T 428/24603** (2015.01 - EP US)

Citation (opposition)

Opponent : Henkel AG & Co. KGaA

- EP 1217106 B1 20051130 - PROCTER & GAMBLE [US]
- US 2003203196 A1 20031030 - TROKHAN PAUL DENNIS [US], et al
- EP 1759040 B1 20101117 - PROCTER & GAMBLE [US]
- US 2006061016 A1 20060323 - GORDON GREGORY C [US], et al

Cited by

CN114181606A

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DOCDB simple family (publication)

US 2013171421 A1 20130704; BR 112014016643 A2 20170613; BR 112014016643 A8 20170704; CA 2860647 A1 20130711; CA 2860647 C 20220614; CN 104039945 A 20140910; CN 104039945 B 20170315; CN 106906573 A 20170630; CN 106906573 B 20190827; EP 2800802 A1 20141112; EP 2800802 B1 20180228; EP 3369845 A1 20180905; EP 3369845 B1 20200325; FR 2985272 A1 20130705; FR 2985272 B1 20211022; GB 201300045 D0 20130220; GB 2498443 A 20130717; GB 2498443 B 20160615; JP 2015503684 A 20150202; JP 5964453 B2 20160803; MX 2014008195 A 20140926; MX 352942 B 20171214; RU 2014126639 A 20160220; RU 2588573 C2 20160710; WO 2013103626 A1 20130711; ZA 201404643 B 20160727

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US 201313733218 A 20130103; BR 112014016643 A 20130103; CA 2860647 A 20130103; CN 201380004748 A 20130103; CN 201710007191 A 20130103; EP 13700348 A 20130103; EP 18158889 A 20130103; FR 1350035 A 20130103; GB 201300045 A 20130103; JP 2014551292 A 20130103; MX 2014008195 A 20130103; RU 2014126639 A 20130103; US 2013020006 W 20130103; ZA 201404643 A 20140624