Title (en)

FIBERS HAVING IMPROVED COLOR FASTNESS AND FIBROUS FORMED BODY CONSTITUTED THEREOF

Title (de)

FASERN MIT VERBESSERTER FARBECHTHEIT UND DARAUS GEBILDETER FASRIGER FORMKÖRPER

Title (fr)

FIBRES À SOLIDITÉ AMÉLIORÉE DE LA COULEUR ET CORPS FAÇONNÉ FIBREUX CONSTITUÉ DE CES FIBRES

Publication

EP 2702200 A1 20140305 (EN)

Application

EP 12723945 A 20120427

Priority

- JP 2011101338 A 20110428
- JP 2012061792 W 20120427

Abstract (en)

[origin: WO2012148001A1] A subject of the invention is to provide a fiber and a fibrous formed body, particularly, a nonwoven fabric all having an exceptional color fastness and high liquid absorption properties and high durable hydrophilic properties. This is attained by a fiber essentially based on at least one kind of thermoplastic resin, wherein a fiber treating agent containing component (A) to (D) described below is attached to the fiber, with specific ratio of each of component (A) to (D), wherein (A) is an alkyl phosphate metal salt in which the number of carbons of an alkyl group is less than 10; (B) is a trialkylglycine derivative; (C) is a hydroxycarboxylic acid; and (D) is an alkyl phosphate metal salt in which the number of carbons of alkyl group is in the range of 10 to 14.

IPC 8 full level

D06M 13/207 (2006.01); **D06M 13/224** (2006.01); **D06M 13/292** (2006.01); **D06M 13/342** (2006.01); **D06M 15/647** (2006.01)

CPC (source: EP KR US)

D06M 13/207 (2013.01 - EP KR US); **D06M 13/224** (2013.01 - KR US); **D06M 13/2243** (2013.01 - EP US); **D06M 13/292** (2013.01 - EP KR US); **D06M 13/342** (2013.01 - EP KR US); **D06M 15/647** (2013.01 - EP US); D06M 2101/20 (2013.01 - EP US); D06M 2200/25 (2013.01 - EP US); Y10T 428/2933 (2015.01 - EP US); Y10T 442/607 (2015.04 - EP US)

Citation (search report)

See references of WO 2012148001A1

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 2012148001 A1 20121101; CN 103620107 A 20140305; CN 103620107 B 20150422; EP 2702200 A1 20140305; EP 2702200 B1 20150520; JP 2012233273 A 20121129; JP 5679895 B2 20150304; KR 101606182 B1 20160324; KR 20140022424 A 20140224; TW 201245538 A 20121116; TW I553187 B 20161011; US 2014051314 A1 20140220

DOCDB simple family (application)

JP 2012061792 W 20120427; CN 201280027036 A 20120427; EP 12723945 A 20120427; JP 2011101338 A 20110428; KR 20137031348 A 20120427; TW 101114929 A 20120426; US 201214114221 A 20120427