

Title (en)

OPTIMIZED RELEASE OF BLEACHING SYSTEMS IN LAUNDRY DETERGENTS

Title (de)

OPTIMIERTE FREISETZUNG VON BLEICHSYSTEMEN IN WASCHMITTELN

Title (fr)

LIBÉRATION OPTIMISÉE DE SYSTÈMES DE BLANCHIMENT DANS DES DÉTERGENTS DE BLANCHISSERIE

Publication

EP 2556140 A1 20130213 (EN)

Application

EP 11715128 A 20110406

Priority

- US 32125810 P 20100406
- US 2011031312 W 20110406

Abstract (en)

[origin: US2011240510A1] The need for a stable, safe on fabric, bleaching laundry detergent, that is also convenient to use, can be met by incorporating an aryliminium cation and/or zwitterion, and an activated peroxygen source, into fluid portions of a unit dose laundry detergent article. Such unit dose articles also result in reduced damage from bleach spotting.

IPC 8 full level

C11D 3/39 (2006.01); **C11D 1/02** (2006.01); **C11D 1/66** (2006.01); **C11D 1/83** (2006.01); **C11D 17/04** (2006.01)

CPC (source: EP US)

C11D 1/02 (2013.01 - EP US); **C11D 1/66** (2013.01 - EP US); **C11D 1/83** (2013.01 - EP US); **C11D 3/392** (2013.01 - EP US); **C11D 17/042** (2013.01 - EP US); **C11D 17/043** (2013.01 - EP US); **C11D 17/045** (2013.01 - EP US)

Citation (search report)

See references of WO 2011127102A1

Citation (examination)

- US 7169744 B2 20070130 - MIRACLE GREGORY SCOT [US], et al
- WO 2011005911 A1 20110113 - PROCTER & GAMBLE [US], et al

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)

US 2011240510 A1 20111006; AR 080838 A1 20120509; BR 112012025395 A2 20160628; CA 2795176 A1 20111013; CA 2795176 C 20150526; CN 102869760 A 20130109; EP 2556140 A1 20130213; JP 2013523976 A 20130617; JP 5863767 B2 20160217; MX 2012011514 A 20121106; RU 2012142725 A 20140520; RU 2569297 C2 20151120; WO 2011127102 A1 20111013; WO 2011127102 A4 20111201; ZA 201207401 B 20131223

DOCDB simple family (application)

US 201113079922 A 20110405; AR P110101155 A 20110406; BR 112012025395 A 20110406; CA 2795176 A 20110406; CN 201180018049 A 20110406; EP 11715128 A 20110406; JP 2013503863 A 20110406; MX 2012011514 A 20110406; RU 2012142725 A 20110406; US 2011031312 W 20110406; ZA 201207401 A 20121003