

Title (en)

DETERGENT COMPOSITIONS CONTAINING COPOLYMER

Title (de)

COPOLYMER ENTHALTENDE WASCHMITTELZUSAMMENSETZUNGEN

Title (fr)

COMPOSITIONS DE DÉTERGENT À LESSIVE CONTENANT UN COPOLYMÈRE

Publication

**EP 3545063 A1 20191002 (DE)**

Application

**EP 17801046 A 20171121**

Priority

- DE 102016223584 A 20161128
- EP 2017079956 W 20171121

Abstract (en)

[origin: WO2018095923A1] Described are detergent compositions containing one or more copolymers that contain cationic structural units and macro-monomer structural units, the compositions further containing one or more surfactants. The copolymers in the detergent composition are advantageously characterized as soil release polymers to be applied to cotton.

IPC 8 full level

**C11D 3/00** (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP US)

**C11D 1/146** (2013.01 - US); **C11D 1/22** (2013.01 - US); **C11D 1/62** (2013.01 - US); **C11D 1/662** (2013.01 - US); **C11D 1/72** (2013.01 - US); **C11D 1/75** (2013.01 - US); **C11D 3/0036** (2013.01 - EP US); **C11D 3/3757** (2013.01 - US); **C11D 3/3769** (2013.01 - EP US); **C11D 3/3773** (2013.01 - EP); **C11D 3/3776** (2013.01 - US)

Citation (search report)

See references of WO 2018095923A1

Cited by

FR3105736A1; WO2021130264A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102016223584 A1 20180530**; AR 110259 A1 20190313; BR 112019009103 A2 20190716; CN 110088259 A 20190802; EP 3545063 A1 20191002; JP 2020513443 A 20200514; MX 2019005869 A 20190829; US 2019330565 A1 20191031; WO 2018095923 A1 20180531

DOCDB simple family (application)

**DE 102016223584 A 20161128**; AR P170103312 A 20171128; BR 112019009103 A 20171121; CN 201780073056 A 20171121; EP 17801046 A 20171121; EP 2017079956 W 20171121; JP 2019527904 A 20171121; MX 2019005869 A 20171121; US 201716462915 A 20171121