

Title (en)
DETERGENT

Title (de)
REINIGUNGSMITTEL

Title (fr)
DÉTERGENT

Publication
EP 3833730 A1 20210616 (EN)

Application
EP 19748851 A 20190808

Priority
• EP 18188543 A 20180810
• EP 2019071369 W 20190808

Abstract (en)
[origin: WO2020030760A1] The invention provides a liquid laundry detergent composition comprising ethoxylated polyethyleneimine (EPEI) for an improved product viscosity profile without impairing cleaning performance; the detergent composition comprising: a) from 6 to 50% (by weight based on the total weight of the composition) of one or more deterative surfactants selected from non-soap anionic surfactants, nonionic surfactants and mixtures thereof, and b) from 2 to 15% of an ethoxylated polyethyleneimine (EPEI) having a polyethyleneimine backbone derived from a polyethylene starting material and made up of repeating $-(CH_2CH_2N)-$ subunits; and one or more polyoxyethylene side chains which are bonded to internal and/or terminal nitrogen atoms in the polyethyleneimine backbone; in which the polyethyleneimine starting material has an average molecular weight (Mw) ranging from 1800 to 5000 g/mol (prior to ethoxylation), and the polyoxyethylene side chains have an average of from 25 to 40 ethoxy units per side chain bonded to the polyethyleneimine backbone.

IPC 8 full level
C11D 3/37 (2006.01); **C11D 1/02** (2006.01); **C11D 1/66** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)
C11D 1/02 (2013.01); **C11D 1/66** (2013.01); **C11D 3/3723** (2013.01); **C11D 17/0008** (2013.01); **C11D 2111/12** (2024.01)

Citation (search report)
See references of WO 2020030760A1

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)
WO 2020030760 A1 20200213; BR 112021001856 A2 20210504; CN 112567011 A 20210326; CN 112567011 B 20220415; EP 3833730 A1 20210616; EP 3833730 B1 20220216; ES 2910348 T3 20220512; ZA 202100792 B 20220831

DOCDB simple family (application)
EP 2019071369 W 20190808; BR 112021001856 A 20190808; CN 201980053706 A 20190808; EP 19748851 A 20190808; ES 19748851 T 20190808; ZA 202100792 A 20210204