

Title (en)

Rhamnolipids with improved cleaning

Title (de)

Rhamnolipide mit verbesserter Reinigung

Title (fr)

Rhamnolipides à nettoyage amélioré

Publication

EP 2410039 A1 20120125 (EN)

Application

EP 10170402 A 20100722

Priority

EP 10170402 A 20100722

Abstract (en)

A cleaning composition comprising mono-rhamnolipid and di-rhamnolipid, characterised in that the ratio of the total wt% of mono-rhamnolipid to the total wt% of di-rhamnolipid lies in the range 95:5 to 45:55.

IPC 8 full level

C11D 1/06 (2006.01); **C11D 1/37** (2006.01)

CPC (source: EP)

C11D 3/0036 (2013.01); **C11D 3/226** (2013.01); **C11D 3/3715** (2013.01)

Citation (applicant)

- US 5767090 A 19980616 - STANGHELLINI MICHAEL E [US], et al
- US 4814272 A 19890321 - WAGNER FRITZ [DE], et al
- US 2004152613 A1 20040805 - DEVELTER DIRK [BE], et al
- EP 1445302 A1 20040811 - ECOVER BELGIUM [BE]
- US 5417879 A 19950523 - HALL PETER J [NL], et al
- EP 0499434 A1 19920819 - UNILEVER PLC [GB], et al
- US 5654192 A 19970805 - DUCREUX JEAN [FR], et al
- DE 19600743 A1 19970724 - HENKEL KGAA [DE]
- US 5417879 A 19950523 - HALL PETER J [NL], et al
- WANG ET AL.: "Engineering bacteria for production of rhamnolipid as an agent for enhanced oil recovery", BIOTECHNOL. BIOENG., vol. 98, 2007, pages 842 - 853

Citation (search report)

- [X] EP 0499434 A1 19920819 - UNILEVER PLC [GB], et al
- [X] EP 0153634 A2 19850904 - WINTERSHALL AG [DE]

Cited by

EP2786743A1; US9243212B2; WO2019034490A1; CN112119144A; CN114456880A; US2021283036A1; CN107257849A; US10604722B2; EP4198112A1; CN104095765A; JP2014201589A; US10487294B2; CN111683960A; JP2021513538A; WO2023099346A1; WO2016139032A1; WO2015091457A1; US10674726B2; EP4353806A1; EP2787065A1; US2014296125A1; CN104099190A; JP2014201745A; CN105228702A; US2016081890A1; CN105992814A; US2016309715A1; AU2014257815B2; US9943468B2; EP4155371A1; US10829507B2; DE102017214265A1; US10259837B2; DE102013205756A1; US9884883B2; US10292924B2; WO2019154970A1; EP3070155A1; WO2016146497A1; US10988713B2; EP3907272A1; WO2014118095A2; WO2019219302A1; EP3271448B1

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

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