

Title (en)

Mixtures of gemini surfactants and fatty alcoholalkoxylates in rinse aids

Title (de)

Mischungen aus Geminitsiden und Fettalkoholalkoxylaten in Klarspülmitteln

Title (fr)

Mélanges de tensioactives geminis et alcoxylates d'alcool gras pour compositions de rincage

Publication

EP 1321511 A3 20040107 (DE)

Application

EP 02027460 A 20021210

Priority

DE 10162023 A 20011218

Abstract (en)

[origin: EP1321511A2] A clear rinse liquid comprises a 'gemini' surfactant (I) and alkoxyated fatty alcohol (II) at ratio 1:1 to 4:1, and optionally other standard ingredients. A clear rinse liquid comprises a 'gemini' surfactant of formula (I) and alkoxyated fatty alcohol of formula (II) at ratio 1:1 to 4:1, and optionally other standard ingredients. $R-CHOH-CH_2-(OCH_2CH_2)_x-OCH_2-CHOH-R$ (I) $R_1-O-(CH_2(CH_3)CHO)_q(CH_2CH_2O)_r-H$ (II) R, R₁ = 4-22C linear or branched alkyl and/or alkenyl; x = 5-90; q = 0-10; and r = 1-50.

IPC 1-7

C11D 1/825; **C11D 1/72**; **C11D 1/722**

IPC 8 full level

C11D 1/72 (2006.01); **C11D 1/825** (2006.01); **C11D 1/722** (2006.01)

CPC (source: EP US)

C11D 1/72 (2013.01 - EP US); **C11D 1/8255** (2013.01 - EP US); **C11D 1/722** (2013.01 - EP US)

Citation (search report)

- [E] EP 1288281 A2 20030305 - COGNIS DEUTSCHLAND GMBH [DE]
- [A] US 4898621 A 19900206 - PRUEHS HORST [DE], et al
- [A] EP 0884298 A2 19981216 - HENKEL KGAA [DE]
- [PA] EP 1254949 A1 20021106 - COGNIS DEUTSCHLAND GMBH [DE]

Cited by

EP1764408A1; EP1897933A1; CN111218288A; EP2267110A3; WO2009100855A3; US8148313B2

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