

Title (en)
Liquid cleaning compositions

Title (de)
Flüssige Reinigungszusammensetzungen

Title (fr)
Compositions de nettoyage liquides

Publication
EP 0892039 A1 19990120 (EN)

Application
EP 97870109 A 19970718

Priority
EP 97870109 A 19970718

Abstract (en)
Liquid cleaning compositions are disclosed which comprise a nonionic surfactant, a polymer and an amphoteric surfactant according to the formula: R1R2R3N or R1R2R3N<+>X wherein the substituent R1 is a substituted or unsubstituted, saturated or unsaturated, linear or branched hydrocarbon chain having from 6 to 22 carbon atoms, wherein the substituents R2 and R3 each independently are a C1 to C6 alkyl carboxylic acid group, which may be the same or different, and wherein X is hydrogen. These compositions have the advantage to exhibit improved physical stability.

IPC 1-7
C11D 1/10; **C11D 1/88**; **C11D 1/94**; **C11D 1/83**; **C11D 3/37**; **C11D 3/22**; **C11D 1/72**

IPC 8 full level
C11D 17/08 (2006.01); **C11D 1/10** (2006.01); **C11D 1/83** (2006.01); **C11D 1/88** (2006.01); **C11D 1/94** (2006.01); **C11D 3/22** (2006.01); **C11D 3/37** (2006.01); **C11D 1/66** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP)
C11D 1/10 (2013.01); **C11D 1/83** (2013.01); **C11D 1/88** (2013.01); **C11D 1/94** (2013.01); **C11D 3/222** (2013.01); **C11D 3/225** (2013.01); **C11D 3/3776** (2013.01); **C10M 2207/281** (2013.01); **C10M 2207/282** (2013.01); **C10M 2207/283** (2013.01); **C10M 2207/284** (2013.01); **C10M 2207/285** (2013.01); **C10M 2207/286** (2013.01); **C10M 2217/044** (2013.01); **C10M 2217/045** (2013.01); **C10M 2223/043** (2013.01); **C10M 2223/047** (2013.01); **C11D 1/662** (2013.01); **C11D 1/72** (2013.01); **C11D 1/721** (2013.01)

Citation (search report)
• [X] US 4416792 A 19831122 - BLACKSTONE PAUL C [US]
• [A] EP 0167382 A2 19860108 - PROCTER & GAMBLE [US]
• [A] US 4264479 A 19810428 - FLANAGAN JOHN J
• [DA] WO 9426858 A1 19941124 - UNILEVER PLC [GB], et al
• [DA] EP 0635567 A2 19950125 - KODAK LTD [GB], et al
• [A] EP 0013585 A1 19800723 - UNILEVER NV [NL], et al

Cited by
US6743763B1; US9714376B2; EP2090645A1; US10265263B2; WO2004003124A1; WO2015005890A1; WO03097779A1; US8551931B2; EP2090646A1; WO2022162221A1; EP2756052B1; EP2756051B1; EP2756053B1; EP2756051B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
EP 0892039 A1 19990120; CA 2296438 A1 19990128; EP 1017769 A1 20000712; JP 2001510231 A 20010731; TR 200000309 T2 20000522; WO 9903957 A1 19990128

DOCDB simple family (application)
EP 97870109 A 19970718; CA 2296438 A 19980702; EP 98925905 A 19980702; IB 9801022 W 19980702; JP 2000503168 A 19980702; TR 200000309 T 19980702