

Title (en)  
Liquid softener.

Title (de)  
Flüssiger Weichmacher.

Title (fr)  
Adoucissant liquide.

Publication  
**EP 0510879 A2 19921028 (EN)**

Application  
**EP 92303461 A 19920416**

Priority  
• JP 9720691 A 19910426  
• JP 9720791 A 19910426

Abstract (en)  
A liquid softener capable of imparting excellent softness and resiliency to various fibers and textiles and having an excellent storability which comprises (a) an amine having 1 or 2 ester group(s) and at least two straight-chain or branched, saturated or unsaturated hydrocarbon groups having 11 to 23 carbon atoms in the molecule and neutralized with an inorganic acid or an organic acid, and (b) an alkylamine polyether compound selected from the group consisting of compounds represented by following general formulae (I) to (III) and/or (c) a compound having a long-chain hydrocarbon group, a nitrogen atom and at least one member selected from the group consisting of an ester group, an amide group and an imidazoline skeleton in the molecule: <CHEM> <CHEM> <CHEM> wherein R3 represents a straight-chain or branched, saturated or unsaturated hydrocarbon group having 8 to 24 carbon atoms,  $p_1+p_2+p_3+p_4$  is a number of 0 to 60 and  $q_1+q_2+q_3+q_4$  is a number of 0 to 60 with the proviso that  $p_1+p_2+p_3+p_4+q_1+q_2+q_3+q_4 \geq 1$ .

IPC 1-7  
**C11D 1/645**

IPC 8 full level  
**C11D 1/645** (2006.01); **C11D 3/00** (2006.01)

CPC (source: EP)  
**C11D 1/645** (2013.01); **C11D 3/0015** (2013.01)

Cited by  
US5670476A; US6180593B1; EP1299070A4; FR2735384A1; US8637489B2; WO9700126A1; US8026206B2; US8597668B2

Designated contracting state (EPC)  
DE ES FR GB IT NL

DOCDB simple family (publication)  
**EP 0510879 A2 19921028; EP 0510879 A3 19930317; MX 9201827 A 19921001**

DOCDB simple family (application)  
**EP 92303461 A 19920416; MX 9201827 A 19920421**