

Title (en)  
AQUEOUS ANIONIC DISPERSION

Publication  
**EP 0202471 A3 19881012 (DE)**

Application  
**EP 86105191 A 19860415**

Priority  
DE 3514373 A 19850420

Abstract (en)  
[origin: US4775488A] An agent effective for oleophobicizing and hydrophobizing textiles is an aqueous anionic dispersion which comprises water and (A) 5 to 25% by weight of a reaction product which contains at least one bis-(2-fluoroalkyl-ethoxy-carbonylamino)-toluene of the formula  $YCF_2(CF_2)_nCH_2CH_2OCO + TR$  <IMAGE> wherein n is a number from 5 to 15 and Y is -H or -F, and wherein said reaction product is prepared by reacting 2-perfluoroalkylethanol of the formula  $YCF_2-(CF_2)_n-CH_2CH_2OH$  with tolylene diisocyanate in a molar ratio of (1.8 to 2):1 in the presence of 2 to 5% by weight of N-methylpyrrolidone, relative to the perfluoroalkylethanol, (B) 1 to 14% by weight of at least one emulsifier of the formula  $YCF_2(CF_2)_p-CH_2CH_2O-CO-NH-CH_2CH_2-SSO_3X$  wherein p is a number from 5 to 15, Y is -H or -F, and X is a monovalent cation, (C) 1 to 14% by weight of at least one nonionic emulsifier of the formula  $YCF_2-(CF_2)_q-CH_2CH_2-(OCH_2CH_2)_r-OH$  wherein Y is -H or -F, q is a number from 5 to 15, r is a number from 0 to 10, and (D) 5 to 30% by weight of a solvent or solvent mixture, with the proviso that the sum of the amounts of components (B) and (C) is 2 to 15%.

IPC 1-7  
**D06M 13/42**

IPC 8 full level  
**B01F 17/22** (2006.01); **B01F 17/42** (2006.01); **B01J 13/00** (2006.01); **C09K 3/18** (2006.01); **C09K 23/22** (2022.01); **C09K 23/42** (2022.01); **D06M 13/02** (2006.01); **D06M 13/144** (2006.01); **D06M 13/165** (2006.01); **D06M 13/322** (2006.01); **D06M 13/325** (2006.01); **D06M 13/335** (2006.01); **D06M 13/402** (2006.01); **D06M 13/408** (2006.01); **D06M 13/428** (2006.01)

CPC (source: EP KR US)  
**D06M 13/428** (2013.01 - EP US); **D06M 15/37** (2013.01 - KR)

Citation (search report)  
• US 3171861 A 19650302 - AHLBRECHT ARTHUR H  
• DE 2115140 A1 19721005  
• PATENT ABSTRACTS OF JAPAN, Unexamined Applications, Sektion C, Band 8, Nr. 205, 19. September 1984 The Patent Office Japanese Government seite 106 C 243 \* Kokai-Nr. 59-94 621 (Unitika K.K.) \*

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**US 4775488 A 19881004**; AT E65809 T1 19910815; AU 5638986 A 19861023; AU 582229 B2 19890316; BR 8601773 A 19861223; DD 248383 A5 19870805; DE 3514373 A1 19861023; DE 3680580 D1 19910905; EP 0202471 A2 19861126; EP 0202471 A3 19881012; EP 0202471 B1 19910731; ES 554146 A0 19880516; ES 8802404 A1 19880516; JP H06104192 B2 19941221; JP S61249538 A 19861106; KR 860008334 A 19861114; NZ 215882 A 19880929

DOCDB simple family (application)  
**US 85059286 A 19860411**; AT 86105191 T 19860415; AU 5638986 A 19860418; BR 8601773 A 19860418; DD 28936986 A 19860418; DE 3514373 A 19850420; DE 3680580 T 19860415; EP 86105191 A 19860415; ES 554146 A 19860418; JP 8844186 A 19860418; KR 860003042 A 19860419; NZ 21588286 A 19860418