

Title (en)  
Cleaning composition.

Title (de)  
Reinigungszusammensetzung.

Title (fr)  
Composition de nettoyage.

Publication  
**EP 0431458 A1 19910612 (EN)**

Application  
**EP 90122748 A 19901128**

Priority  
• JP 31864289 A 19891207  
• JP 31864389 A 19891207  
• JP 31864489 A 19891207

Abstract (en)  
The invention provides a cleaning composition containing as an active component an aliphatic fluorohydrocarbon represented by the formula  $C_nF_mH_{2n+2-m}$  wherein  $4 \leq n \leq 6$  and  $6 \leq m \leq 12$ . n

IPC 1-7  
**C11D 7/24**; **C11D 7/50**; **C23G 5/028**

IPC 8 full level  
**C11D 7/30** (2006.01); **C11D 7/50** (2006.01); **C11D 7/60** (2006.01); **C23G 5/028** (2006.01); **C23G 5/032** (2006.01); **H05K 3/26** (2006.01); **C11D 7/24** (2006.01); **C11D 7/26** (2006.01); **C11D 7/28** (2006.01)

CPC (source: EP KR)  
**C11D 3/00** (2013.01 - KR); **C11D 7/261** (2013.01 - EP); **C11D 7/5018** (2013.01 - EP); **C23G 5/02803** (2013.01 - EP); **C11D 7/24** (2013.01 - EP); **C11D 7/264** (2013.01 - EP); **C11D 7/266** (2013.01 - EP); **C11D 7/28** (2013.01 - EP)

Citation (search report)  
• [X] US 3729567 A 19730424 - TERRELL R  
• [X] DE 2124458 A1 19721130  
• [X] EP 0260587 A2 19880323 - HOECHST AG [DE]  
• [A] FR 2275540 A1 19760116 - ALLIED CHEM [US]  
• [A] US 4842764 A 19890627 - LUND EARL A E [US], et al

Cited by  
US5772911A; US5578137A; US5219490A; US5824826A; AU693453B2; US5648325A; US5268120A; US5266231A; EP0519432A3; US5705471A; US5288422A; US5424002A; US5221361A; US5219488A; US5194170A; US5395997A; AU664586B2; US5225099A; US6162304A; US5444986A; US5250208A; US5250213A; US5562853A; US5259983A; US5219489A; US5696307A; US5445757A; US5352375A; US5290473A; EP0885952A1; EP0731162A1; FR2731436A1; US5268122A; EP0552286A4; US5221493A; EP0697452A1; US5268121A; US5266232A; EP0519431A3; EP0607969A1; US5431837A; US5490894A; EP0610507A4; US5667594A; EP0516029A1; US5346645A; US5824634A; US5531916A; US5196137A; US5100572A; EP0552225A4; US8021490B2; USRE39819E; WO9305002A3; WO9320178A1; WO2007016121A3; WO9322416A1; WO9310203A1; US8529703B2; US7531495B2; US6355113B1; US6194619B1; EP0618288B1; WO9610061A1; WO9428196A1; WO9308240A1; WO9320177A1; WO9219706A3; WO9311280A1; US6688118B1; US7144523B2; US7309459B2

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

DOCDB simple family (publication)  
**EP 0431458 A1 19910612**; AU 635362 B2 19930318; AU 6691690 A 19910613; BR 9006196 A 19910924; CA 2031421 A1 19910608; CS 611190 A2 19910915; JP 2850533 B2 19990127; JP H0428798 A 19920131; KR 910012220 A 19910807; PL 288145 A1 19910826; RU 2010847 C1 19940415

DOCDB simple family (application)  
**EP 90122748 A 19901128**; AU 6691690 A 19901126; BR 9006196 A 19901206; CA 2031421 A 19901204; CS 611190 A 19901207; JP 33197690 A 19901128; KR 900020128 A 19901207; PL 28814590 A 19901207; SU 4894031 A 19901206