

Title (en)

Cleaning composition based on 1,1,1,2,2,4,4-heptafluorobutane and alcohols

Title (de)

Reinigungsmittel auf Grundlage von 1,1,1,2,2,4,4-Heptafluorbutan und Alkoholen

Title (fr)

Compositions de nettoyage à base de 1,1,1,2,2,4,4-heptafluorobutane et d'alcools

Publication

EP 0771865 A1 19970507 (FR)

Application

EP 96402131 A 19961007

Priority

FR 9512843 A 19951031

Abstract (en)

New azeotropic or quasi-azeotropic composition (I) contains 1,1,1,2,2,4,4-heptafluorobutane (II) and a 1-3C alcohol. (I) contains 90-99 weight % of (II) and 1-10 weight % of methanol or ethanol, or 90-99.9 weight % of (II) and 0.1-10 weight % of isopropanol. It also contains at least one stabiliser.

Abstract (fr)

Pour remplacer les compositions à base de CFC ou de HCFC dans les applications de nettoyage de surfaces solides (notamment défluxage), l'invention propose des compositions azéotropiques ou quasi azéotropiques à base de 1,1,1,2,2,4,4-heptafluorobutane et d'un alcool en C1-C3.

IPC 1-7

C11D 7/50; C23G 5/028

IPC 8 full level

C11D 7/26 (2006.01); **C07C 19/08** (2006.01); **C07C 31/02** (2006.01); **C11D 7/30** (2006.01); **C11D 7/50** (2006.01); **C23G 5/028** (2006.01); **C23G 5/032** (2006.01); **H05K 3/26** (2006.01)

CPC (source: EP KR US)

C11D 3/24 (2013.01 - KR); **C11D 7/5081** (2013.01 - EP US); **C23G 5/02803** (2013.01 - EP US)

Citation (search report)

- [A] DATABASE WPI Section Ch Week 9419, Derwent World Patents Index; Class A97, AN 94-156887, XP002007610
- [A] DATABASE WPI Section Ch Week 9346, Derwent World Patents Index; Class E16, AN 93-364389, XP002007611
- [A] DATABASE WPI Section Ch Week 9338, Derwent World Patents Index; Class E16, AN 93-299883, XP002007612
- [A] DATABASE WPI Section Ch Week 9350, Derwent World Patents Index; Class E16, AN 93-400552, XP002007613
- [A] DATABASE WPI Section Ch Week 9412, Derwent World Patents Index; Class E16, AN 94-098084, XP002007614

Cited by

WO0192456A1; US8529703B2; US7531495B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB IE IT LI NL

DOCDB simple family (publication)

EP 0771865 A1 19970507; AU 7048496 A 19970508; CA 2189061 A1 19970501; CN 1157319 A 19970820; FR 2740469 A1 19970430; FR 2740469 B1 19971205; JP H09188636 A 19970722; KR 970021272 A 19970528; TW 364016 B 19990711; US 5747437 A 19980505

DOCDB simple family (application)

EP 96402131 A 19961007; AU 7048496 A 19961030; CA 2189061 A 19961028; CN 96112480 A 19961029; FR 9512843 A 19951031; JP 29027696 A 19961031; KR 19960047177 A 19961021; TW 85113195 A 19961029; US 73960296 A 19961030