

Title (en)

AZEOTROPE AND AZEOTROPE-LIKE COMPOSITIONS OF 1-BROMOPROPANE AND HIGHLY FLUORINATED HYDROCARBONS

Title (de)

AZEOTROPE SOWIE AZEOTROPÄHNLICHE ZUSAMMENSETZUNGEN AUS 1-BROMPROPAN UND HOCHFLUORIERTEN KOHLENWASSERSTOFFEN

Title (fr)

COMPOSITIONS AZEOTROPES, ET DU TYPE AZEOTROPE, DE 1-BROMOPROPANE ET D'HYDROCARBURES A HAUTE TENEUR EN FLUOR

Publication

**EP 0994929 B1 20040922 (EN)**

Application

**EP 98933297 A 19980709**

Priority

- US 9814252 W 19980709
- US 5205897 P 19970709

Abstract (en)

[origin: WO9902616A1] This invention provides a solvent composition comprising 1-bromopropane and a decafluoropentane for use as a cleaning and degreasing solvent. Preferably the decafluoropentane consists essentially of 1,1,1,2,3,4,4,5,5,5-decafluoropentane. The solvent composition optionally includes stabilizers and co-solvents such as alcohols, ketones, ethers, acetals, nitroalkanes, epoxides and amines. Specific compositions of 1-bromopropane, 1,1,1,2,3,4,4,5,5,5-decafluoropentane and optional stabilizers provide azeotrope compositions that are particularly well suited as cleaning and degreasing solvents.

IPC 1-7

**C09D 9/00**; **C11D 7/50**; **C23G 5/02**; **C23G 5/028**

IPC 8 full level

**C11D 7/30** (2006.01); **C11D 7/50** (2006.01); **C23G 5/02** (2006.01); **C23G 5/028** (2006.01); **C11D 7/26** (2006.01); **C11D 7/28** (2006.01)

CPC (source: EP)

**C11D 7/261** (2013.01); **C11D 7/505** (2013.01); **C11D 7/5081** (2013.01); **C23G 5/02825** (2013.01); **C11D 7/263** (2013.01); **C11D 7/264** (2013.01); **C11D 7/28** (2013.01)

Cited by

US2011112342A1; US8492598B2; US8100987B2

Designated contracting state (EPC)

BE DE FR GB NL

DOCDB simple family (publication)

**WO 9902616 A1 19990121**; AU 8297398 A 19990208; CA 2296589 A1 19990121; CA 2296589 C 20071016; DE 69826473 D1 20041028; DE 69826473 T2 20060223; EP 0994929 A1 20000426; EP 0994929 A4 20010221; EP 0994929 B1 20040922; JP 2001509533 A 20010724

DOCDB simple family (application)

**US 9814252 W 19980709**; AU 8297398 A 19980709; CA 2296589 A 19980709; DE 69826473 T 19980709; EP 98933297 A 19980709; JP 2000502121 A 19980709