

Title (en)

Vapour phase preparation of 1,1,1,2,3,3,3-heptafluoropropane

Publication

**EP 1000002 A1 20000517 (EN)**

Application

**EP 98932350 A 19980702**

Priority

- GB 9716136 A 19970731
- GB 9801951 W 19980702
- US 6974297 P 19971216

Abstract (en)

[origin: WO9906342A1] A process for the preparation of 1,1,1,2,3,3,3-heptafluoropropane (HFC 227ea) by reacting hydrogen fluoride with hexafluoropropane (HFP) in the vapour phase over a fluorination catalyst using a molar ratio of HF:HFP is at least 3.5:1. The reaction can be carried out under adiabatic conditions with less catalyst fouling. The use of HFC 227ea as diluent allows the use of smaller plant.

IPC 8 full level

**B01J 23/26** (2006.01); **C07B 61/00** (2006.01); **C07C 17/087** (2006.01); **C07C 19/08** (2006.01)

CPC (source: EP)

**B01J 23/26** (2013.01); **C07C 17/087** (2013.01)

Citation (search report)

See references of WO 9906342A1

DOCDB simple family (publication)

**WO 9906342 A1 19990211**; AU 8228998 A 19990222; CN 1271337 A 20001025; EP 1000002 A1 20000517; JP 2001512092 A 20010821

DOCDB simple family (application)

**GB 9801951 W 19980702**; AU 8228998 A 19980702; CN 98809564 A 19980702; EP 98932350 A 19980702; JP 2000505107 A 19980702