

Title (en)  
METHOD FOR PRODUCING DIFLUOROMETHANE

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON DIFLUORMETHAN

Title (fr)  
PROCEDE DE PRODUCTION DE DIFLUOROMETHANE

Publication  
**EP 2882703 A1 20150617 (FR)**

Application  
**EP 13745149 A 20130703**

Priority  
• FR 1257762 A 20120810  
• FR 2013051574 W 20130703

Abstract (en)  
[origin: WO2014023883A1] The invention relates to a method for producing difluoromethane, including the catalytic reaction of dichloromethane with hydrogen fluoride in the liquid phase, in the presence of chlorine, and in the presence of an ionic liquid catalyst consisting of the product of the reaction of antimony pentachloride with an organic salt having the general formula X + A, where A is a halide anion or hexafluoroantimonate, and X + is a quaternary ammonium cation, quarternary phosphonium or ternary sulfonium. The invention likewise relates to equipment suitable for implementing said method.

IPC 8 full level  
**C07C 17/20** (2006.01); **B01J 3/00** (2006.01); **C07C 19/08** (2006.01); **C07F 9/90** (2006.01)

CPC (source: EP US)  
**B01J 19/0066** (2013.01 - US); **B01J 19/02** (2013.01 - US); **B01J 19/18** (2013.01 - US); **B01J 19/24** (2013.01 - US); **C07C 17/206** (2013.01 - EP US); **B01J 2219/00006** (2013.01 - EP US); **B01J 2219/0277** (2013.01 - US); **B01J 2219/24** (2013.01 - US); **Y02P 20/582** (2015.11 - EP US)

Citation (search report)  
See references of WO 2014023883A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2014023883 A1 20140213**; CN 104703954 A 20150610; CN 104703954 B 20161026; EP 2882703 A1 20150617; FR 2994430 A1 20140214; FR 2994430 B1 20141219; JP 2015528439 A 20150928; JP 6363603 B2 20180725; US 2015210617 A1 20150730; US 9428428 B2 20160830

DOCDB simple family (application)  
**FR 2013051574 W 20130703**; CN 201380052783 A 20130703; EP 13745149 A 20130703; FR 1257762 A 20120810; JP 2015525916 A 20130703; US 201314420779 A 20130703