

Title (en)
HIGH SELECTIVITY PROCESS TO MAKE DIHYDROFLUOROALKENES

Title (de)
HOCHSELEKTIVES VERFAHREN ZUR HERSTELLUNG VON DIHYDROFLUORALKENEN

Title (fr)
PROCEDE A SELECTIVITE ELEVEE POUR PREPARER DES DIHYDROFLUORALCENES

Publication
EP 2303818 A1 20110406 (EN)

Application
EP 08756152 A 20080523

Priority
US 2008064609 W 20080523

Abstract (en)
[origin: WO2009142642A1] Disclosed is a method for the synthesis of fluorinated alkenes comprising contacting a fluorinated alkyne of the formula $R_1 C \equiv C R_2$, wherein R_1 and R_2 are independently selected from CF_3 , C_2F_5 , C_3F_7 , and C_4F_9 , in a pressure vessel, with a Lindlar catalyst, with substantially one molar equivalent of hydrogen, to make the corresponding cis-alkene of formula $R_1 C = C R_2$ with high selectivity, wherein said hydrogen is added in portions over a period of time, so as to produce an initial pressure in the pressure in the vessel of no more than about 100 psi.

IPC 8 full level
C07C 17/354 (2006.01); **C07C 21/18** (2006.01)

CPC (source: EP)
C07C 17/354 (2013.01)

Citation (search report)
See references of WO 2009142642A1

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

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2009142642 A1 20091126; BR PI0822248 A2 20190924; CA 2722711 A1 20091126; CN 102036938 A 20110427; EP 2303818 A1 20110406; JP 2011520957 A 20110721; JP 5828761 B2 20151209; KR 101614967 B1 20160422; KR 20110034607 A 20110405; MX 2010012799 A 20101207

DOCDB simple family (application)
US 2008064609 W 20080523; BR PI0822248 A 20080523; CA 2722711 A 20080523; CN 200880129398 A 20080523; EP 08756152 A 20080523; JP 2011510476 A 20080523; KR 20107028818 A 20080523; MX 2010012799 A 20080523