

Title (en)  
METHODS FOR PRODUCING CHIRAL ALDEHYDES

Title (de)  
VERFAHREN ZUR HERSTELLUNG CHIRALER ALDEHYDE

Title (fr)  
PROCEDE POUR LA PREPARATION D'ALDEHYDES CHIRAUX

Publication  
**EP 1131274 A2 20010912 (DE)**

Application  
**EP 99968786 A 19991111**

Priority  
• DE 19853748 A 19981121  
• EP 9908661 W 19991111

Abstract (en)  
[origin: DE19853748A1] Production of chiral aldehyde (I) by enantioselective hydroformylation of a prochiral substrate (II) using as catalyst a complex of a transition metal and a chiral phosphino-phosphite ligand (III) containing fluoroalkyl substituents. Production of chiral aldehyde (I) by enantioselective hydroformylation of a prochiral substrate (II) comprises using a complex of a transition metal and a chiral phosphino-phosphite ligand of formula (III) containing fluoroalkyl substituents as catalyst. R1-R6 = phenyl rings optionally substituted by one or more X; R7-R10 = optionally present phenyl rings, optionally substituted by one or more X X = -(CH2)x(CF2)y-F, or a branched isomer, and is present one or more times on one or more of rings R1-R10; x = 0-5; y = 1-12.

IPC 1-7  
**C07C 45/50**; **C07C 45/80**; **C07F 9/6574**

IPC 8 full level  
**B01J 31/20** (2006.01); **C07B 53/00** (2006.01); **C07B 61/00** (2006.01); **C07C 45/50** (2006.01); **C07C 47/228** (2006.01); **C07C 47/24** (2006.01)

CPC (source: EP US)  
**C07C 45/505** (2013.01 - EP US); **Y02P 20/54** (2015.11 - EP US)

Citation (search report)  
See references of WO 0031010A2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**DE 19853748 A1 20000525**; CA 2351397 A1 20000602; EP 1131274 A2 20010912; JP 2002530360 A 20020917; US 6399834 B1 20020604; WO 0031010 A2 20000602; WO 0031010 A3 20001102

DOCDB simple family (application)  
**DE 19853748 A 19981121**; CA 2351397 A 19991111; EP 9908661 W 19991111; EP 99968786 A 19991111; JP 2000583839 A 19991111; US 83192501 A 20010515