

Title (en)
HOMOGENEOUS OXIDATION CATALYSIS USING METAL COMPLEXES

Title (de)
HOMOGENE OXIDATIONS KATALYSE UNTER VERWENDUNG VON METALLKOMPLEXEN

Title (fr)
CATALYSE A OXYDATION HOMOGENE UTILISANT DES COMPLEXES METALLIQUES

Publication
EP 0991468 A1 20000412 (EN)

Application
EP 98931384 A 19980618

Priority
• US 9812749 W 19980618
• US 87975297 A 19970620

Abstract (en)
[origin: WO9858735A1] The present method provides a method of transferring oxygen to at least one oxidizable site on a target compound. The method includes the steps of selectively oxidizing an oxidizable site on a target compound by reacting in solution: the target compound, a source of oxygen atoms, a source of a Lewis acid, such as a proton, alkali, alkaline earth, rare earth, transition metal or main group metal ion, and a catalyst. The catalyst has general structure (I) wherein Z is preferably N, but may include O and MO is a transition metal-oxo species. The Lewis acid binds to a bidentate secondary site on the Ch1 substituent to form a Lewis acid-catalyst complex.

IPC 1-7
B01J 31/18; **B01J 31/22**; **C07B 53/00**

IPC 8 full level
B01J 31/22 (2006.01); **B01J 31/18** (2006.01); **C07B 33/00** (2006.01); **C07B 53/00** (2006.01); **C07C 29/48** (2006.01); **C07C 33/025** (2006.01)

CPC (source: EP KR)
B01J 31/18 (2013.01 - KR); **B01J 31/182** (2013.01 - EP); **C07B 53/00** (2013.01 - EP); **C07C 29/48** (2013.01 - EP);
B01J 2531/0258 (2013.01 - EP); **B01J 2531/38** (2013.01 - EP); **B01J 2531/39** (2013.01 - EP); **B01J 2531/72** (2013.01 - EP);
B01J 2531/842 (2013.01 - EP)

Citation (search report)
See references of WO 9858735A1

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)
WO 9858735 A1 19981230; AP 9901723 A0 19991231; AU 8152998 A 19990104; BR 9810754 A 20000815; CA 2295006 A1 19981230;
CN 1267238 A 20000920; EP 0991468 A1 20000412; IL 133484 A0 20010430; JP 2002505688 A 20020219; KR 20010013986 A 20010226;
NO 996282 D0 19991217; NO 996282 L 20000221; OA 11237 A 20030527; PL 337523 A1 20000828

DOCDB simple family (application)
US 9812749 W 19980618; AP 9901723 A 19980618; AU 8152998 A 19980618; BR 9810754 A 19980618; CA 2295006 A 19980618;
CN 98808220 A 19980618; EP 98931384 A 19980618; IL 13348498 A 19980618; JP 50482899 A 19980618; KR 19997012013 A 19980618;
NO 996282 A 19991217; OA 9900283 A 19991215; PL 33752398 A 19980618