

Title (en)

METHOD FOR THE CATALYTIC, SYMMETRIC DISUBSTITUTION OF CARBOXYLIC ACID AMIDES WITH GRIGNARD REAGENTS

Title (de)

VERFAHREN ZUR KATALYTISCHEN, SYMMETRISCHEN DISUBSTITUTION VON CARBONSÄUREAMIDEN MIT GRIGNARD-REAGENZIEN

Title (fr)

PROCEDE DE DISUBSTITUTION CATALYTIQUE SYMETRIQUE D'AMINES D'ACIDE CARBOXYLIQUE AVEC DES REACTIFS DE GRIGNARD

Publication

EP 1087933 A1 20010404 (DE)

Application

EP 99932702 A 19990618

Priority

- DE 19827161 A 19980618
- EP 9904254 W 19990618

Abstract (en)

[origin: DE19827161A1] The invention relates to a method for symmetrically disubstituting carboxylic acid amides on the geminal carbonyl-C-atom using grignard reagents in the presence of a metal alcoholate compound used as a catalyst and in the presence of another organometallic compound used as a co-catalyst.

IPC 1-7

C07C 209/66; B01J 21/06; C07C 211/27; C07D 295/03

IPC 8 full level

C07D 295/02 (2006.01); **B01J 31/02** (2006.01); **C07B 61/00** (2006.01); **C07C 209/66** (2006.01); **C07C 209/68** (2006.01); **C07C 211/27** (2006.01);
C07D 295/03 (2006.01)

CPC (source: EP KR US)

B01J 31/0212 (2013.01 - EP US); **B01J 31/0214** (2013.01 - EP US); **B01J 31/0274** (2013.01 - EP US); **C07C 209/66** (2013.01 - KR);
C07C 209/68 (2013.01 - EP US); **C07D 295/03** (2013.01 - EP US); **B01J 2231/40** (2013.01 - EP US)

Citation (search report)

See references of WO 9965862A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IT LI LU NL PT SE

DOCDB simple family (publication)

DE 19827161 A1 19991223; EP 1087933 A1 20010404; JP 2002518365 A 20020625; KR 20010052927 A 20010625; US 6515180 B1 20030204;
WO 9965862 A1 19991223

DOCDB simple family (application)

DE 19827161 A 19980618; EP 9904254 W 19990618; EP 99932702 A 19990618; JP 2000554689 A 19990618; KR 20007014292 A 20001215;
US 71981501 A 20010307