

Title (en)

METHOD FOR CATALYTICALLY DISUBSTITUTING CARBOXYLIC ACID AMIDES WITH AT LEAST ONE GRIGNARD REAGENT

Title (de)

VERFAHREN ZUR KATALYTISCHEN DISUBSTITUTION VON CARBONSÄUREAMIDEN MIT WENIGSTENS EINEM GRIGNARD-REAGENZ

Title (fr)

PROCEDE DE DISUBSTITUTION CATALYTIQUE D'AMIDES D'ACIDE CARBOXYLIQUE AVEC AU MOINS UN REACTIF DE GRIGNARD

Publication

**EP 1087930 A1 20010404 (DE)**

Application

**EP 99931108 A 19990618**

Priority

- DE 19827166 A 19980618
- EP 9904252 W 19990618

Abstract (en)

[origin: DE19827166A1] The invention relates to a method for disubstituting carboxylic acid amides on the geminal carbonyl-C-atom using at least one grignard reagent 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); **B01J 31/12** (2006.01); **C07B 61/00** (2006.01); **C07C 209/66** (2006.01); **C07C 211/17** (2006.01); **C07C 211/21** (2006.01); **C07D 295/023** (2006.01); **C07D 295/03** (2006.01)

CPC (source: EP KR US)

**B01J 31/122** (2013.01 - EP US); **B01J 31/128** (2013.01 - EP US); **C07C 209/66** (2013.01 - EP KR US); **C07D 295/023** (2013.01 - EP US); **C07D 295/03** (2013.01 - EP US); **B01J 2231/341** (2013.01 - EP US); **B01J 2231/40** (2013.01 - EP US); **C07C 2601/08** (2017.04 - EP US); **C07C 2601/14** (2017.04 - EP US)

Citation (search report)

See references of WO 9965860A1

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 19827166 A1 19991223**; EP 1087930 A1 20010404; JP 2002518363 A 20020625; KR 20010053015 A 20010625; US 6448445 B1 20020910; WO 9965860 A1 19991223

DOCDB simple family (application)

**DE 19827166 A 19980618**; EP 9904252 W 19990618; EP 99931108 A 19990618; JP 2000554687 A 19990618; KR 20007014422 A 20001218; US 71982401 A 20010223