

Title (en)
METHOD FOR THE POLYMERIZATION AN COPOLYMERIZATION OF MONOLEFINS AND NOVEL PALLADIUM COMPLEXES THEREFOR

Title (de)
VERFAHREN ZUR POLYMERISATION UND COPOLYMERISATION VON MONOOLEFINEN UND NEUE PALLADIUM-KOMPLEXE DAFUR

Title (fr)
PROCEDE DE POLYMERISATION ET COPOLYMERISATION DE MONO-OLEFINES ET NOUVEAUX COMPLEXES DE PALLADIUM UTILISES

Publication
EP 1163277 A1 20011219 (DE)

Application
EP 00916842 A 20000217

Priority

- DE 19907999 A 19990225
- EP 0001291 W 20000217

Abstract (en)
[origin: DE19907999A1] According to the invention, monolefins comprising 2 to 12 C atoms can be polymerized to form polymers or copolymers. Said monolefins are polymerized alone or in a mixture as well as with polar monomers such as methylacrylate in the presence of a palladium complex of formula [L1 Pd L2]<+>An<-> and optionally while adding an alkylaluminum compound. In the Pd complex, L1 represents a neutral bidentate N, N'-disubstituted diazadiene ligand, preferably a diazabutadiene ligand; L2 represents an alkoxycycloalkene carbanion with 7 to 8 C annular atoms, preferably a 1-methoxy-cycloocta-4-ene-8 sigma , 4 pi ligand, which is bound to the palladium atom via a sigma bond and whose C=C double bond forms a complexing pi bond to the palladium atom and; An<-> represents an anion of an acid which is non-esterifiable or slightly esterifiable and which is non-coordinating or slightly coordinating. The invention also relates to novel Pd complex catalysts provided for polymerization and copolymerization.

IPC 1-7
C08F 10/00; **C08F 4/70**

IPC 8 full level
C07F 15/00 (2006.01); **C08F 4/42** (2006.01); **C08F 4/70** (2006.01); **C08F 10/00** (2006.01); **C08F 10/02** (2006.01); **C08F 110/02** (2006.01); **C08F 110/06** (2006.01); **C08F 210/02** (2006.01); **C08F 210/16** (2006.01)

CPC (source: EP KR)
C07F 15/006 (2013.01 - EP); **C07F 15/0066** (2013.01 - EP KR); **C08F 4/7021** (2013.01 - KR); **C08F 10/00** (2013.01 - EP); **C08F 10/02** (2013.01 - KR); **C08F 110/02** (2013.01 - KR); **C08F 110/06** (2013.01 - KR); **C08F 210/02** (2013.01 - KR); **C08F 210/16** (2013.01 - KR); **C08F 220/14** (2013.01 - KR); **C08F 220/18** (2013.01 - KR); **C08F 10/02** (2013.01 - EP); **C08F 110/02** (2013.01 - EP); **C08F 110/06** (2013.01 - EP); **C08F 210/02** (2013.01 - EP); **C08F 210/16** (2013.01 - EP); **C08F 2410/03** (2013.01 - EP KR)

Citation (search report)
See references of WO 0050474A1

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 19907999 A1 20000831; EP 1163277 A1 20011219; JP 2002537451 A 20021105; KR 20010102384 A 20011115; WO 0050474 A1 20000831

DOCDB simple family (application)
DE 19907999 A 19990225; EP 0001291 W 20000217; EP 00916842 A 20000217; JP 2000601051 A 20000217; KR 20017010821 A 20010824