

Title (en)

METATHESIS CATALYST AND PROCESS FOR USE THEREOF

Title (de)

METATHESEKATALYSATOR UND VERFAHREN ZU SEINER VERWENDUNG

Title (fr)

CATALYSEUR DE MÉTATHÈSE ET SON PROCÉDÉ D'UTILISATION

Publication

EP 2866936 A4 20160406 (EN)

Application

EP 13810862 A 20130612

Priority

- US 201213535875 A 20120628
- US 2013045390 W 20130612

Abstract (en)

[origin: WO2014004089A1] This invention relates to a catalyst compound for the metathesis of olefins represented by the formula: (I) wherein M is a Group 8 metal; X and X1 are anionic ligands; L is a neutral two electron donor; L1 is N or P, preferably N; R is a C1 to C30 hydrocarbyl or a C1 to C30 substituted hydrocarbyl; G* is selected from the group consisting of hydrogen, a C1 to C30 hydrocarbyl, and a C1 to C30 substituted hydrocarbyl; R1 is selected from the group consisting of hydrogen, a C1 to C30 hydrocarbyl, and a C1 to C30 substituted hydrocarbyl; R2 is hydrogen, a C1 to C30 hydrocarbyl or a C1 to C30 substituted hydrocarbyl; and G is independently selected from the group consisting of hydrogen, halogen, C1 to C30 hydrocarbyls, and C1 to C30 substituted hydrocarbyls. This invention also relates to process to make alphaolefins comprising contacting an olefin, such as ethylene, with a feed oil containing a triacylglyceride (typically a fatty acid ester (such as methyl oleate)) with the catalyst compound described above. The fatty acid ester may be a fatty acid methyl ester derived from biodiesel.

IPC 8 full level

B01J 31/18 (2006.01); **B01J 31/22** (2006.01); **B01J 31/24** (2006.01); **C07C 6/04** (2006.01); **C07F 15/00** (2006.01)

CPC (source: EP)

B01J 31/1805 (2013.01); **B01J 31/2208** (2013.01); **B01J 31/2265** (2013.01); **B01J 31/2273** (2013.01); **B01J 31/2278** (2013.01); **B01J 31/2404** (2013.01); **C07C 6/04** (2013.01); **C07C 67/293** (2013.01); **C07F 15/0046** (2013.01); **B01J 31/2447** (2013.01); **B01J 2231/543** (2013.01); **B01J 2531/821** (2013.01); **B01J 2540/10** (2013.01); **B01J 2540/22** (2013.01)

Citation (search report)

- [I] US 2011112349 A1 20110512 - HOLTCAMP MATTHEW W [US], et al
- [A] US 2010145086 A1 20100610 - SCHRODI YANN [US], et al
- [A] US 2011172381 A1 20110714 - ZHAN ZHENG-YUN JAMES [CN]
- See references of WO 2014004089A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014004089 A1 20140103; CN 104394987 A 20150304; EP 2866936 A1 20150506; EP 2866936 A4 20160406

DOCDB simple family (application)

US 2013045390 W 20130612; CN 201380034065 A 20130612; EP 13810862 A 20130612