

Title (en)
METHOD FOR PRODUCING UNSATURATED COMPOUNDS

Title (de)
VERFAHREN ZUR HERSTELLUNG UNGESÄTTIGTER VERBINDUNGEN

Title (fr)
PROCÉDÉ DE PRODUCTION DE COMPOSÉS INSATURÉS

Publication
EP 2864281 A1 20150429 (DE)

Application
EP 13728412 A 20130614

Priority
• EP 12173545 A 20120626
• EP 2013062351 W 20130614
• EP 13728412 A 20130614

Abstract (en)
[origin: WO2014001101A1] The present invention relates to a method for producing compositions containing unsaturated compounds, wherein (A) one or a plurality of unsaturated monocarboxylic acids with 10 to 24 C atoms or esters of these monocarboxylic acids and (B) one or a plurality of unsaturated dicarboxylic acids with 4 to 20 C atoms or esters thereof are subjected to a tandem isomerization/metathesis reaction in the presence of a palladium catalyst and a ruthenium catalyst, with the condition that compounds which contain at least one Pd-P(R1R2R3) structure element are used as the palladium catalysts, wherein the R1 to R3 radicals each - independently of one another - have 2 to 10 C atoms, which can each be aliphatic, alicyclic, aromatic, or heterocyclic, with the condition that at least one of the R1 to R3 radicals contains a beta hydrogen, wherein the palladium catalyst is used as such or generated in situ, with the condition that the method is performed in the absence of substances having a pKa value of 3 or less.

IPC 8 full level
C07C 51/353 (2006.01); **B01J 31/24** (2006.01); **C07C 57/03** (2006.01); **C07C 57/13** (2006.01); **C07C 67/333** (2006.01); **C07C 67/475** (2006.01); **C07C 69/52** (2006.01); **C07C 69/593** (2006.01)

CPC (source: CN EP KR)
B01J 31/04 (2013.01 - KR); **B01J 31/2265** (2013.01 - EP); **B01J 31/2273** (2013.01 - EP); **B01J 31/2278** (2013.01 - EP); **B01J 31/2409** (2013.01 - EP); **C07C 51/353** (2013.01 - CN EP KR); **C07C 57/03** (2013.01 - KR); **C07C 57/13** (2013.01 - KR); **C07C 67/475** (2013.01 - CN EP KR); **C07C 69/52** (2013.01 - KR); **B01J 2231/52** (2013.01 - EP); **B01J 2231/543** (2013.01 - EP); **B01J 2531/0216** (2013.01 - EP); **B01J 2531/821** (2013.01 - EP); **B01J 2531/824** (2013.01 - EP); **Y02E 50/10** (2013.01 - EP)

C-Set (source: CN EP)
1. **C07C 67/475 + C07C 69/593**
2. **C07C 67/475 + C07C 69/533**
3. **C07C 51/353 + C07C 57/03**
4. **C07C 51/353 + C07C 57/13**

Citation (search report)
See references of WO 2014001101A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014001101 A1 20140103; BR 112014031995 A2 20170627; CN 104395277 A 20150304; EP 2864281 A1 20150429; JP 2015527305 A 20150917; KR 20150024396 A 20150306

DOCDB simple family (application)
EP 2013062351 W 20130614; BR 112014031995 A 20130614; CN 201380033593 A 20130614; EP 13728412 A 20130614; JP 2015518965 A 20130614; KR 20157000890 A 20130614