

Title (en)
LAYERED SUPPORT MATERIAL FOR CATALYSTS

Title (de)
GESCHICHTETES TRÄGERMATERIAL FÜR KATALYSATOREN

Title (fr)
MATÉRIAU DE SUPPORT STRATIFIÉ POUR CATALYSEURS

Publication
EP 1694437 A1 20060830 (EN)

Application
EP 04811517 A 20041119

Priority
• US 2004038814 W 20041119
• US 53093603 P 20031219

Abstract (en)
[origin: WO2005065821A1] The present invention addresses at least four different aspects relating to catalyst structure, methods of making those catalysts and methods of using those catalysts for making alkenyl alkanoates. Separately or together in combination, the various aspects of the invention are directed at improving the production of alkenyl alkanoates and VA in particular, including reduction of by-products and improved production efficiency. A first aspect of the present invention pertains to a unique palladium/gold catalyst or pre-catalyst (optionally calcined) that includes rhodium or another metal. A second aspect pertains to a palladium/gold catalyst or precatalyst that is based on a layered support material where one layer of the support material is substantially free of catalytic components. A third aspect pertains to a palladium/gold catalyst or pre-catalyst on a zirconia containing support material. A fourth aspect pertains to a palladium/gold catalyst or pre-catalyst that is produced from substantially chloride free catalytic components.

IPC 8 full level
B01J 23/66 (2006.01); **B01J 23/52** (2006.01); **B01J 35/08** (2006.01); **B01J 37/00** (2006.01); **B01J 37/02** (2006.01); **B01J 37/16** (2006.01); **C07C 67/055** (2006.01)

CPC (source: EP KR)
B01J 23/44 (2013.01 - KR); **B01J 23/52** (2013.01 - EP KR); **B01J 23/66** (2013.01 - EP); **B01J 35/51** (2024.01 - EP); **B01J 37/00** (2013.01 - KR); **B01J 37/0072** (2013.01 - EP); **B01J 37/0201** (2013.01 - EP); **B01J 37/0248** (2013.01 - EP); **B01J 37/16** (2013.01 - EP); **C07C 67/055** (2013.01 - EP)

Citation (search report)
See references of WO 2005065821A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005065821 A1 20050721; AR 056250 A1 20071003; AU 2004311900 A1 20050721; AU 2004311900 B2 20081002; BR PI0416406 A 20070109; CA 2547318 A1 20050721; CA 2547318 C 20101102; CN 100569364 C 20091216; CN 1929916 A 20070314; EP 1694437 A1 20060830; JP 2007514540 A 20070607; JP 4772694 B2 20110914; KR 100890655 B1 20090326; KR 20060100454 A 20060920; NO 20062528 L 20060703; NZ 547073 A 20100528; PL 380018 A1 20061211; RU 2006119178 A 20071220; RU 2380154 C2 20100127; UA 94208 C2 20110426; ZA 200604363 B 20071031

DOCDB simple family (application)
US 2004038814 W 20041119; AR P040104282 A 20041119; AU 2004311900 A 20041119; BR PI0416406 A 20041119; CA 2547318 A 20041119; CN 200480037200 A 20041119; EP 04811517 A 20041119; JP 2006545663 A 20041119; KR 20067010646 A 20060530; NO 20062528 A 20060601; NZ 54707304 A 20041119; PL 38001804 A 20041119; RU 2006119178 A 20041119; UA A200606851 A 20041119; ZA 200604363 A 20041119