

Title (en)

GOLD-BASED CATALYST FOR OXIDATIVE ESTERIFICATION OF ALDEHYDES TO CARBOXYLIC ACID ESTERS

Title (de)

GOLD-BASIERTEN KATALYSATOR FÜR DIE OXIDATIVE VERESTERUNG VON ALDEHYDEN ZU CARBONSÄUREESTERN

Title (fr)

CATALYSEUR À BASE D'OR POUR L'ESTÉRIFICATION OXYDATIVE D'ALDÉHYDES EN ESTERS D'ACIDE CARBOXYLIQUE

Publication

EP 3377222 A1 20180926 (DE)

Application

EP 16794620 A 20161111

Priority

- EP 15195303 A 20151119
- EP 2016077377 W 20161111

Abstract (en)

[origin: WO2017084969A1] The invention relates to novel catalysts for oxidative esterification, by means of which, for example, (meth)acrolein can be converted to methyl (meth)acrylate. The catalysts according to the invention are characterised in particular by a high mechanical and chemical stability, even over very long periods of time. This relates in particular to an improvement in the service life, activity and selectivity of the catalyst compared with catalysts from the prior art, which relatively quickly lose activity and/or selectivity in continuous operation, even in media with low water content.

IPC 8 full level

B01J 37/02 (2006.01); **B01J 21/04** (2006.01); **B01J 21/08** (2006.01); **B01J 21/10** (2006.01); **B01J 23/52** (2006.01); **B01J 23/89** (2006.01); **B01J 35/00** (2006.01); **B01J 35/02** (2006.01); **B01J 35/10** (2006.01); **B01J 37/06** (2006.01); **B01J 37/12** (2006.01); **B01J 37/14** (2006.01)

CPC (source: EP KR US)

B01J 21/04 (2013.01 - EP KR US); **B01J 21/08** (2013.01 - EP KR US); **B01J 21/10** (2013.01 - EP KR US); **B01J 23/52** (2013.01 - EP KR US); **B01J 23/8906** (2013.01 - EP US); **B01J 23/8913** (2013.01 - EP KR US); **B01J 35/393** (2024.01 - EP US); **B01J 35/394** (2024.01 - EP US); **B01J 35/397** (2024.01 - EP US); **B01J 35/40** (2024.01 - EP US); **B01J 35/615** (2024.01 - EP KR US); **B01J 35/643** (2024.01 - EP US); **B01J 35/647** (2024.01 - EP US); **B01J 37/0201** (2013.01 - EP US); **B01J 37/0205** (2013.01 - EP US); **B01J 37/0207** (2013.01 - EP US); **B01J 37/0211** (2013.01 - EP US); **B01J 37/024** (2013.01 - EP US); **B01J 37/06** (2013.01 - EP US); **B01J 37/08** (2013.01 - US); **B01J 37/12** (2013.01 - EP US); **B01J 37/14** (2013.01 - EP US); **C07C 67/39** (2013.01 - EP US); **C07C 67/44** (2013.01 - KR); **C07C 67/62** (2013.01 - KR); **C07C 69/54** (2013.01 - KR); **B01J 2231/49** (2013.01 - EP US); **B01J 2523/19** (2013.01 - US); **B01J 2523/27** (2013.01 - US); **B01J 2523/842** (2013.01 - US); **B01J 2523/845** (2013.01 - US); **C07C 67/42** (2013.01 - US); **C07C 69/54** (2013.01 - US)

C-Set (source: EP US)

C07C 67/39 + **C07C 69/54**

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)

EP 3170558 A1 20170524; **EP 3170558 A8 20170712**; BR 112018010199 A2 20181121; CN 108348909 A 20180731; CN 108348909 B 20211126; EP 3377222 A1 20180926; JP 2018535825 A 20181206; JP 6865752 B2 20210428; KR 102635623 B1 20240208; KR 20180083905 A 20180723; SG 11201804114Q A 20180628; TW 201733671 A 20171001; TW I744257 B 20211101; US 10906025 B2 20210202; US 2018326400 A1 20181115; WO 2017084969 A1 20170526

DOCDB simple family (application)

EP 15195303 A 20151119; BR 112018010199 A 20161111; CN 201680067370 A 20161111; EP 16794620 A 20161111; EP 2016077377 W 20161111; JP 2018526235 A 20161111; KR 20187016909 A 20161111; SG 11201804114Q A 20161111; TW 105137498 A 20161116; US 201615776837 A 20161111