

Title (en)

CHROMIUM-FREE WATER- AND ACID-STABLE CATALYST FOR HYDROGENATION REACTIONS

Title (de)

CHROMFREIER WASSER- UND SÄURESTABILER KATALYSATOR FÜR HYDRIERUNGEN

Title (fr)

CATALYSEUR STABLE À L'EAU ET À L'ACIDE EXEMPT DE CHROME POUR DES RÉACTIONS D'HYDROGÉNATION

Publication

EP 4061525 A1 20220928 (DE)

Application

EP 20808049 A 20201113

Priority

- DE 102019131569 A 20191122
- EP 2020082131 W 20201113

Abstract (en)

[origin: WO2021099225A1] The present invention relates to an improved chromium-free Cu-Al catalyst for the hydrogenation of carbonyl groups in organic compounds, characterized in that the catalyst contains zirconium in a proportion of 0.5 to 30.0 wt.%. The invention also relates to the production of the catalyst and to the use of same in the hydrogenation of carbonyl groups in organic compounds.

IPC 8 full level

B01J 21/04 (2006.01); **B01J 21/06** (2006.01); **B01J 23/72** (2006.01); **B01J 35/00** (2024.01); **B01J 37/00** (2006.01); **B01J 37/03** (2006.01); **B01J 37/06** (2006.01); **B01J 37/08** (2006.01); **B01J 37/16** (2006.01); **C07C 213/02** (2006.01)

CPC (source: EP KR US)

B01J 21/04 (2013.01 - EP KR); **B01J 21/066** (2013.01 - EP KR); **B01J 23/02** (2013.01 - US); **B01J 23/72** (2013.01 - EP KR US); **B01J 35/00** (2013.01 - EP); **B01J 35/30** (2024.01 - EP KR); **B01J 35/50** (2024.01 - US); **B01J 37/0009** (2013.01 - EP KR); **B01J 37/0018** (2013.01 - EP KR US); **B01J 37/0236** (2013.01 - US); **B01J 37/031** (2013.01 - EP KR US); **B01J 37/06** (2013.01 - EP KR US); **B01J 37/08** (2013.01 - US); **B01J 37/088** (2013.01 - EP KR); **B01J 37/16** (2013.01 - EP KR); **C07B 41/02** (2013.01 - US); **C07C 29/141** (2013.01 - EP KR); **C07C 29/149** (2013.01 - EP KR); **C07C 31/125** (2013.01 - KR)

C-Set (source: EP)

C07C 29/149 + C07C 31/125

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)

DE 102019131569 A1 20210527; AR 120284 A1 20220209; CN 114728267 A 20220708; EP 4061525 A1 20220928; JP 2022553535 A 20221223; JP 7457109 B2 20240327; KR 20220100712 A 20220715; US 2022401928 A1 20221222; WO 2021099225 A1 20210527

DOCDB simple family (application)

DE 102019131569 A 20191122; AR P200102928 A 20201022; CN 202080081053 A 20201113; EP 2020082131 W 20201113; EP 20808049 A 20201113; JP 2022523324 A 20201113; KR 20227021370 A 20201113; US 202017775620 A 20201113