

Title (en)

TABLETED CATALYST FOR METHANOL SYNTHESIS HAVING INCREASED MECHANICAL STABILITY

Title (de)

TABLETTIERTER KATALYSATOR FÜR DIE METHANOLSYNTHESE MIT ERHOEBTER MECHANISCHER STABILITÄT

Title (fr)

CATALYSEUR SOUS FORME DE COMPRIMÉ POUR LA SYNTHÈSE DE MÉTHANOL PRÉSENTANT UNE STABILITÉ MÉCANIQUE ACCRUE

Publication

EP 3554690 A1 20191023 (DE)

Application

EP 17842317 A 20171214

Priority

- DE 102016225171 A 20161215
- EP 2017082815 W 20171214

Abstract (en)

[origin: WO2018109083A1] The invention relates to an improved catalyst based on a tableted molded catalyst body, containing a metal-containing mixture, containing copper, zinc, and aluminum, with calcium aluminate as a binder material with a weight fraction of calcium aluminate in the range of 1.0% to 30.0%, for synthesizing methanol from synthesis gas. The invention further relates to the production of the catalyst and to the use of the catalyst in the synthesis of methanol from synthesis gas.

IPC 8 full level

B01J 23/80 (2006.01); **B01J 33/00** (2006.01); **B01J 35/00** (2006.01); **B01J 35/10** (2006.01); **B01J 37/00** (2006.01); **B01J 37/03** (2006.01); **B01J 37/04** (2006.01); **B01J 37/08** (2006.01); **B01J 37/18** (2006.01); **C07C 29/154** (2006.01)

CPC (source: EP US)

B01J 19/30 (2013.01 - EP); **B01J 23/002** (2013.01 - US); **B01J 23/80** (2013.01 - EP US); **B01J 35/30** (2024.01 - EP); **B01J 35/392** (2024.01 - EP US); **B01J 35/50** (2024.01 - US); **B01J 35/613** (2024.01 - US); **B01J 35/615** (2024.01 - US); **B01J 35/633** (2024.01 - EP US); **B01J 35/647** (2024.01 - EP); **B01J 37/0009** (2013.01 - EP); **B01J 37/0018** (2013.01 - US); **B01J 37/03** (2013.01 - EP); **B01J 37/08** (2013.01 - EP US); **B01J 37/18** (2013.01 - US); **C07C 29/154** (2013.01 - EP US); **B01J 33/00** (2013.01 - EP); **B01J 35/613** (2024.01 - EP); **B01J 35/615** (2024.01 - EP); **B01J 35/66** (2024.01 - EP); **B01J 37/0045** (2013.01 - EP); **B01J 37/04** (2013.01 - EP); **B01J 37/18** (2013.01 - EP); **B01J 2219/30211** (2013.01 - EP); **B01J 2219/30219** (2013.01 - EP); **B01J 2219/30408** (2013.01 - EP); **B01J 2219/30416** (2013.01 - EP); **B01J 2219/30475** (2013.01 - EP); **B01J 2219/3185** (2013.01 - EP); **B01J 2523/00** (2013.01 - EP); **B01J 2523/17** (2013.01 - US); **B01J 2523/27** (2013.01 - US); **B01J 2523/31** (2013.01 - US); **Y02P 20/52** (2015.11 - EP)

Citation (search report)

See references of WO 2018109083A1

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 2018109083 A1 20180621; CN 110072614 A 20190730; DE 102016225171 A1 20180621; EP 3554690 A1 20191023; US 11000833 B2 20210511; US 2020001278 A1 20200102

DOCDB simple family (application)

EP 2017082815 W 20171214; CN 201780077457 A 20171214; DE 102016225171 A 20161215; EP 17842317 A 20171214; US 201716463551 A 20171214