

Title (en)
SYNTHESIS OF A MOVNBTE CATALYST HAVING A REDUCED NIOBIUM AND TELLURIUM CONTENT AND HIGHER ACTIVITY FOR THE
OXIDATIVE DEHYDROGENATION OF ETHANE

Title (de)
SYNTHESE EINES MOVNBTE-KATALYSATORS MIT REDUZIERTEM GEHALT AN NIOB UND TELLUR UND HÖHERER AKTIVITÄT FÜR DIE
OXIDATIVE DEHYDRIERUNG VON ETHAN

Title (fr)
SYNTHÈSE D'UN CATALYSEUR MOVNBTE AYANT UNE TENEUR RÉDUITE EN NIOBIUM ET EN TELLURE AINSI QU'UNE ACTIVITÉ PLUS
IMPORTANTE POUR LA DÉSHYDROGÉNATION OXYDATIVE DE L'ÉTHANE

Publication
EP 3576873 A1 20191211 (DE)

Application
EP 18725739 A 20180126

Priority
• DE 102017000862 A 20170131
• EP 2018052011 W 20180126

Abstract (en)
[origin: WO2018141652A1] The invention relates to a mixed oxide material comprising the elements molybdenum, vanadium, niobium and tellurium, which mixed oxide material has diffraction reflections h, i, k and l in XRD analysis in the presence of Cu-K α radiation, said diffraction reflexes having their vertices approximately at the diffraction angles (2θ) $26.2^\circ \pm 0.5^\circ$ (h), $27.0^\circ \pm 0.5^\circ$ (i), $7.8^\circ \pm 0.5^\circ$ (k) and $28.0^\circ \pm 0.5^\circ$ (l), characterized in that: Mo1VaNb \bar{b} TecOn (I). a = 0.2 to 0.35, b = greater than 0 to 0.08, c = greater than 0 to 0.08, and n = is a number that is determined by the valency and frequency of the elements in (I) that are different from oxygen.

IPC 8 full level
B01J 37/03 (2006.01); **B01J 35/00** (2006.01); **B01J 35/10** (2006.01); **C07C 5/48** (2006.01); **C07C 51/25** (2006.01)

CPC (source: EP KR US)
B01J 23/002 (2013.01 - KR US); **B01J 23/22** (2013.01 - US); **B01J 23/28** (2013.01 - US); **B01J 31/04** (2013.01 - US);
B01J 31/2226 (2013.01 - US); **B01J 35/30** (2024.01 - EP US); **B01J 35/613** (2024.01 - EP KR); **B01J 35/615** (2024.01 - EP);
B01J 35/617 (2024.01 - EP); **B01J 37/033** (2013.01 - EP); **B01J 37/036** (2013.01 - EP); **B01J 37/10** (2013.01 - KR); **C01B 19/002** (2013.01 - KR);
C07C 5/322 (2013.01 - US); **C07C 5/48** (2013.01 - EP KR US); **C07C 11/04** (2013.01 - KR); **C07C 51/16** (2013.01 - KR);
C07C 51/215 (2013.01 - EP); **C07C 57/04** (2013.01 - KR); **C07C 253/24** (2013.01 - EP US); **C07C 253/26** (2013.01 - KR);
C07C 255/08 (2013.01 - KR US); **B01J 2523/00** (2013.01 - EP); **B01J 2523/55** (2013.01 - KR); **B01J 2523/56** (2013.01 - KR);
B01J 2523/64 (2013.01 - KR); **B01J 2523/68** (2013.01 - KR); **C01P 2002/72** (2013.01 - KR); **C01P 2006/12** (2013.01 - KR);
C07C 2523/20 (2013.01 - EP); **C07C 2523/22** (2013.01 - EP); **C07C 2523/28** (2013.01 - EP); **C07C 2527/057** (2013.01 - EP);
Y02P 20/52 (2015.11 - EP)

C-Set (source: EP)
1. **B01J 2523/00 + B01J 2523/55 + B01J 2523/56 + B01J 2523/64 + B01J 2523/68**
2. **C07C 5/48 + C07C 11/04**
3. **C07C 51/215 + C07C 57/04**
4. **C07C 253/24 + C07C 255/08**

Citation (search report)
See references of WO 2018141652A1

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 102017000862 A1 20180802; CN 110494221 A 20191122; CN 110494221 B 20230328; EP 3576873 A1 20191211;
JP 2020507451 A 20200312; JP 6876813 B2 20210526; KR 102316006 B1 20211026; KR 20190112791 A 20191007;
US 11097254 B2 20210824; US 2020061583 A1 20200227; WO 2018141652 A1 20180809

DOCDB simple family (application)
DE 102017000862 A 20170131; CN 201880009415 A 20180126; EP 18725739 A 20180126; EP 2018052011 W 20180126;
JP 2019540546 A 20180126; KR 20197025636 A 20180126; US 201816479702 A 20180126