

Title (en)  
SELECTIVE HYDROGENATION CATALYST COMPRISING A SPECIFIC CARRIER IN THE FORM OF AN ALUMINATE

Title (de)  
SELEKTIVER HYDRIERUNGSKATALYSATOR MIT EINEM SPEZIFISCHEN TRÄGER IN FORM EINES ALUMINATS

Title (fr)  
CATALYSEUR D'HYDROGENATION SELECTIVE COMPRENANT UN SUPPORT SPECIFIQUE EN PARTIE SOUS FORME ALUMINATE

Publication  
**EP 4146384 A1 20230315 (FR)**

Application  
**EP 21722239 A 20210503**

Priority

- FR 2004516 A 20200507
- EP 2021061556 W 20210503

Abstract (en)  
[origin: WO2021224173A1] Disclosed is a hydrotreatment catalyst comprising an active phase containing at least one group VIB metal and at least one group VIII metal, and a porous carrier containing alumina and at least one  $MAI_2O_4$  spinel where M is selected from among nickel and cobalt, characterized in that: - the molar ratio (r1) between said group VIII metal and said group VIB metal of the active phase is between 1.0 and 3.0 mol/mol; - the molar ratio (r2) between said metal M of the porous carrier and said group VIII metal of the active phase is between 0.3 and 0.7 mol/mol; - the molar ratio (r3) between the sum of the contents of the metal M and the group VIII metal relative to the group VIB metal content is between 2.2 and 3.0 mol/mol.

IPC 8 full level  
**B01J 21/04** (2006.01); **B01J 23/00** (2006.01); **B01J 23/883** (2006.01); **B01J 35/00** (2006.01); **B01J 35/10** (2006.01); **B01J 37/02** (2006.01); **B01J 37/08** (2006.01); **B01J 37/14** (2006.01)

CPC (source: EP US)  
**B01J 21/04** (2013.01 - EP US); **B01J 23/005** (2013.01 - EP US); **B01J 23/755** (2013.01 - US); **B01J 23/883** (2013.01 - EP US); **B01J 35/394** (2024.01 - US); **B01J 35/396** (2024.01 - EP); **B01J 35/397** (2024.01 - EP); **B01J 35/615** (2024.01 - EP US); **B01J 35/633** (2024.01 - EP); **B01J 35/635** (2024.01 - EP); **B01J 37/0201** (2013.01 - EP); **B01J 37/0205** (2013.01 - US); **B01J 37/0207** (2013.01 - EP); **B01J 37/0236** (2013.01 - US); **B01J 37/024** (2013.01 - US); **B01J 37/08** (2013.01 - EP); **B01J 37/088** (2013.01 - US); **B01J 37/14** (2013.01 - EP); **B01J 37/20** (2013.01 - US); **C10G 49/04** (2013.01 - US); **C10G 65/12** (2013.01 - US); **C10G 2300/104** (2013.01 - US); **C10G 2300/202** (2013.01 - US); **C10G 2300/301** (2013.01 - US); **C10G 2300/4006** (2013.01 - US); **C10G 2300/4012** (2013.01 - US); **C10G 2300/4018** (2013.01 - US); **C10G 2400/02** (2013.01 - US)

Citation (search report)  
See references of WO 2021224173A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**FR 3109897 A1 20211112**; **FR 3109897 B1 20231124**; BR 112022020621 A2 20221129; CN 115461145 A 20221209; EP 4146384 A1 20230315; JP 2023524797 A 20230613; US 2023264180 A1 20230824; WO 2021224173 A1 20211111

DOCDB simple family (application)  
**FR 2004516 A 20200507**; BR 112022020621 A 20210503; CN 202180033574 A 20210503; EP 2021061556 W 20210503; EP 21722239 A 20210503; JP 2022567456 A 20210503; US 202117922032 A 20210503