

Title (en)

MESOPOROUS AND MACROPOROUS NICKEL-BASED CATALYST PRODUCED BY KNEADING AND HAVING A MEDIAN DIAMETER OF MACROPORES FROM 50 TO 300 NM AND USE THEREOF FOR HYDROCARBON HYDROGENATION

Title (de)

MESOPÖSER AND MAKROPORÖSER DURCH KNETTEN HERGESTELLTER NICKEL-HALTIGER KATALYSATOR MIT MITTELEREM MAKROPORENDURCHMESSER ZWISCHEN 50 UND 300 NM UND DESSEN VERWENDUNG ZUR HYDRIERUNG VON KOHLENWASSERSTOFFEN

Title (fr)

CATALYSEUR MESOPOREUX ET MACROPOREUX A PHASE ACTIVE DE NICKEL OBTENU PAR COMALAXAGE ET AYANT UN DIAMETRE MEDIAN MACROPOREUX COMPRIS ENTRE 50 ET 300 NM ET SON UTILISATION EN HYDROGENATION D'HYDROCARBURES.

Publication

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Application

**EP 15726215 A 20150609**

Priority

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Abstract (en)

[origin: WO2015189193A1] The invention concerns a catalyst comprising a predominantly calcined aluminium oxide matrix and an active phase comprising nickel, said active phase being at least partially comilled in said predominantly calcined aluminium oxide matrix, the nickel content being between 5 and 65% by weight of said element relative to the total mass of the catalyst, said active phase not comprising group VIB metal, the nickel particles having a diameter less than 15 nm, said catalyst having a mesoporous median diameter of between 12 nm and 25 nm, a macroporous median diameter of between 50 and 300 nm, a mesoporous volume measured by mercury porosimetry greater than or equal to 0.40 mL/g and a total porous volume measured by mercury porosimetry greater than or equal to 0.45 mL/g. The invention also concerns the method of preparing said catalyst and the use of same in a hydrogenation method.

IPC 8 full level

**B01J 21/04** (2006.01); **B01J 23/755** (2006.01); **B01J 23/78** (2006.01); **B01J 23/835** (2006.01); **B01J 23/89** (2006.01); **B01J 27/185** (2006.01); **B01J 33/00** (2006.01); **B01J 35/00** (2024.01); **B01J 37/03** (2006.01); **B01J 37/04** (2006.01); **B01J 37/08** (2006.01); **B01J 37/16** (2006.01); **B01J 37/20** (2006.01); **C01F 7/141** (2022.01); **C01F 7/34** (2006.01); **C07C 5/03** (2006.01); **C07C 5/10** (2006.01); **C10G 45/36** (2006.01); **C10G 45/48** (2006.01)

CPC (source: CN EP RU US)

**B01J 21/04** (2013.01 - EP RU US); **B01J 23/755** (2013.01 - CN EP RU US); **B01J 23/835** (2013.01 - EP US); **B01J 23/892** (2013.01 - EP US); **B01J 27/1853** (2013.01 - EP US); **B01J 33/00** (2013.01 - RU); **B01J 35/393** (2024.01 - EP US); **B01J 35/40** (2024.01 - EP US); **B01J 35/613** (2024.01 - EP US); **B01J 35/615** (2024.01 - EP US); **B01J 35/633** (2024.01 - EP US); **B01J 35/635** (2024.01 - CN EP US); **B01J 35/638** (2024.01 - US); **B01J 35/647** (2024.01 - EP US); **B01J 35/651** (2024.01 - EP US); **B01J 35/69** (2024.01 - EP RU US); **B01J 35/695** (2024.01 - CN); **B01J 37/0009** (2013.01 - EP US); **B01J 37/0045** (2013.01 - CN); **B01J 37/009** (2013.01 - US); **B01J 37/0236** (2013.01 - US); **B01J 37/03** (2013.01 - CN); **B01J 37/036** (2013.01 - EP US); **B01J 37/038** (2013.01 - US); **B01J 37/04** (2013.01 - CN EP RU US); **B01J 37/08** (2013.01 - EP US); **C01F 7/141** (2013.01 - EP); **C07C 5/03** (2013.01 - EP RU US); **C07C 5/05** (2013.01 - CN EP US); **C07C 5/10** (2013.01 - EP RU US); **C07C 9/18** (2013.01 - CN); **C10G 45/36** (2013.01 - EP US); **C10G 45/48** (2013.01 - CN EP US); **B01J 21/04** (2013.01 - CN); **B01J 23/835** (2013.01 - CN); **B01J 23/892** (2013.01 - CN); **B01J 27/1853** (2013.01 - CN); **B01J 33/00** (2013.01 - CN EP US); **B01J 35/393** (2024.01 - CN); **B01J 35/40** (2024.01 - CN); **B01J 35/50** (2024.01 - CN EP US); **B01J 35/613** (2024.01 - CN); **B01J 35/615** (2024.01 - CN); **B01J 35/633** (2024.01 - CN); **B01J 35/647** (2024.01 - CN); **B01J 35/651** (2024.01 - CN); **B01J 35/69** (2024.01 - CN); **B01J 35/695** (2024.01 - EP US); **B01J 37/0009** (2013.01 - CN); **B01J 37/0045** (2013.01 - EP US); **B01J 37/03** (2013.01 - EP US); **B01J 37/036** (2013.01 - CN); **B01J 37/08** (2013.01 - CN); **B01J 37/20** (2013.01 - CN EP US); **B01J 2523/00** (2013.01 - CN EP US); **B01J 2523/31** (2013.01 - CN); **B01J 2523/847** (2013.01 - CN); **C07C 5/03** (2013.01 - CN); **C07C 5/10** (2013.01 - CN); **C07C 11/10** (2013.01 - CN); **C07C 13/18** (2013.01 - CN); **C07C 15/073** (2013.01 - CN); **C07C 2521/04** (2013.01 - CN EP US); **C07C 2523/755** (2013.01 - CN EP US); **C07C 2601/14** (2017.05 - EP US); **C10G 45/36** (2013.01 - CN)

C-Set (source: EP US)

1. **C07C 5/03 + C07C 9/18**
2. **C07C 5/03 + C07C 15/073**
3. **C07C 5/05 + C07C 11/10**
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