

Title (en)
METHOD FOR CONVERTING A GAS COMPRISING CARBON MONOXIDE INTO METHANE BY MEANS OF A CATALYTIC MATERIAL CONTAINING PRASEODYMIUM AND NICKEL ON ALUMINA

Title (de)
VERFAHREN ZUR UMWANDLUNG EINES KOHLENMONOXID ENTHALTENDEN GASES IN METHAN MITTELS EINES KATALYTISCHEN MATERIALS, DAS PRASEODYM UND NICKEL AUF ALUMINIUMOXID ENTHÄLT

Title (fr)
PROCÉDÉ DE CONVERSION D'UN GAZ COMPORTANT DU MONOXYDE DE CARBONE EN MÉTHANE À L'AIDE D'UN MATÉRIAU CATALYTIQUE CONTENANT DU PRASÉODYME ET DU NICKEL SUR ALUMINE

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Application
EP 18800710 A 20181022

Priority
• FR 1759927 A 20171020
• FR 2018052619 W 20181022

Abstract (en)
[origin: WO2019077288A1] The invention relates to a method for converting a gas into methane (CH₄) which includes: - a step of activating a catalytic material including praseodymium (Pr₆O₁₁) associated with nickel oxide (NiO) and alumina (Al₂O₃), the respective proportions of which are, relative to the total weight of these three compounds: - Pr₆O₁₁: 1 wt% to 20 wt%, - NiO: 1 wt% to 20 wt%, and - Al₂O₃: 60 to 98 wt%; and - a step of passing a gas including at least one carbon monoxide (CO) over the activated catalytic material.

IPC 8 full level
B01J 23/83 (2006.01); **B01J 8/18** (2006.01); **B01J 35/02** (2006.01); **B01J 35/10** (2006.01); **B01J 37/02** (2006.01); **B01J 37/03** (2006.01); **B01J 37/08** (2006.01); **B01J 37/18** (2006.01); **C07C 1/04** (2006.01); **C07C 9/04** (2006.01)

CPC (source: EP US)
B01J 8/1827 (2013.01 - US); **B01J 8/1836** (2013.01 - EP US); **B01J 8/24** (2013.01 - US); **B01J 21/04** (2013.01 - US); **B01J 23/10** (2013.01 - US); **B01J 23/755** (2013.01 - US); **B01J 23/83** (2013.01 - EP US); **B01J 35/40** (2024.01 - EP US); **B01J 35/50** (2024.01 - US); **B01J 35/613** (2024.01 - EP US); **B01J 35/615** (2024.01 - EP US); **B01J 35/647** (2024.01 - EP US); **B01J 37/0201** (2013.01 - EP); **B01J 37/0221** (2013.01 - US); **B01J 37/031** (2013.01 - EP); **B01J 37/082** (2013.01 - US); **B01J 37/088** (2013.01 - EP); **B01J 37/16** (2013.01 - US); **B01J 37/18** (2013.01 - EP); **C07C 1/041** (2013.01 - US); **C07C 1/042** (2013.01 - US); **C07C 1/0435** (2013.01 - EP US); **C07C 1/0445** (2013.01 - US); **C07C 1/0485** (2013.01 - US); **C07C 1/12** (2013.01 - EP); **B01J 2208/00132** (2013.01 - EP US); **B01J 2523/00** (2013.01 - EP); **C07C 2521/04** (2013.01 - EP US); **C07C 2523/10** (2013.01 - EP US); **C07C 2523/755** (2013.01 - EP US); **C07C 2523/83** (2013.01 - EP US); **Y02P 20/52** (2015.11 - EP)

C-Set (source: EP)
1. **B01J 2523/00 + B01J 2523/31 + B01J 2523/3718 + B01J 2523/847**
2. **C07C 1/0435 + C07C 9/04**
3. **C07C 1/12 + C07C 9/04**

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019077288 A1 20190425; AU 2018353483 A1 20200507; AU 2018353483 B2 20231130; BR 112020007878 A2 20201013; BR 112020007878 B1 20230404; CA 3079487 A1 20190425; EP 3697530 A1 20200826; FR 3072582 A1 20190426; FR 3072582 B1 20221230; JP 2021500234 A 20210107; US 11117843 B2 20210914; US 12012367 B2 20240618; US 2020239381 A1 20200730; US 2021395163 A1 20211223

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