

(19)



(11)

**EP 4 417 306 A8**

(12)

**CORRECTED EUROPEAN PATENT APPLICATION**

published in accordance with Art. 153(4) EPC

(15) Correction information:

**Corrected version no 1 (W1 A1)****Corrections, see****Bibliography INID code(s) 71**

(48) Corrigendum issued on:

**15.01.2025 Bulletin 2025/03**

(43) Date of publication:

**21.08.2024 Bulletin 2024/34**(21) Application number: **22880371.4**(22) Date of filing: **13.10.2022**

(51) International Patent Classification (IPC):

**B01J 29/70<sup>(2006.01)</sup> B01J 29/08<sup>(2006.01)</sup>****B01J 29/18<sup>(2006.01)</sup> C10G 25/03<sup>(2006.01)</sup>**

(52) Cooperative Patent Classification (CPC):

(C-Sets available)

**C10G 11/05; B01J 29/08; B01J 29/18; B01J 29/70;****B01J 35/60; C07C 7/163; C10G 2300/1088;****Y02P 20/52**

(Cont.)

(86) International application number:

**PCT/CN2022/125061**

(87) International publication number:

**WO 2023/061435 (20.04.2023 Gazette 2023/16)**

(84) Designated Contracting States:

**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 ME MK MT NL  
NO PL PT RO RS SE SI SK SM TR**

Designated Extension States:

**BA**

Designated Validation States:

**KH MA MD TN**(30) Priority: **13.10.2021 CN 202111195240**

(71) Applicants:

- **China Petroleum & Chemical Corporation  
Beijing 100728 (CN)**
- **Shanghai Research Institute of Petrochemical  
Technology, SINOPEC  
Shanghai 201208 (CN)**

(72) Inventors:

- **LI, Wei  
Shanghai 201208 (CN)**
- **ZHOU, Yaxin  
Shanghai 201208 (CN)**
- **WU, Lihui  
Shanghai 201208 (CN)**
- **HOU, Min  
Shanghai 201208 (CN)**

(74) Representative: **karo IP****Patentanwälte PartG mbB  
Steinstraße 16-18  
40212 Düsseldorf (DE)**(54) **OLEFIN CONVERSION CATALYST, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**

(57) An olefin conversion catalyst and its preparation method and application are disclosed. The catalyst comprises the following components, in parts by mass: a) 50-90 parts of a molecular sieve with a structure of twelve-membered ring and above; b) calculated as oxide, 0.1-10 parts of an added component selected from Group IA metal elements, Group IIA metal elements, or a com-

bination thereof; c) calculated as oxide, 0.1-10 parts of a modifying component selected from silicon, germanium, bismuth, tin, boron, gallium or a combination thereof; and d) 10-49 parts of a support component. When the catalyst is used to convert a small amount of olefins in an aromatic distillate oil, it has the characteristics of high activity and stability, long life and effective utilization of olefins.

**EP 4 417 306 A8**

(52) Cooperative Patent Classification (CPC): (Cont.)

C-Sets

**C07C 7/163, C07C 15/067**