

## Title (en)

REACTOR AND METHOD FOR GASEOUS PHASE ENDOTHERMAL REACTION ON A SOLID CATALYST

## Title (de)

REAKTOR UND VERFAHREN FÜR EINE ENDOTHERMALE GASPHASENREAKTION AUF EINEM FESTSTOFFKATALYSATOR

## Title (fr)

REACTEUR ET PROCEDE POUR LES REACTIONS ENDOTHERMIQUES EN PHASE GAZEUSE SUR CATALYSEUR SOLIDE

## Publication

**EP 2222395 A1 20100901 (FR)**

## Application

**EP 08872450 A 20081201**

## Priority

- FR 2008001675 W 20081201
- FR 0708560 A 20071206

## Abstract (en)

[origin: WO2009101280A1] The invention relates to a reactor for the catalytic reforming or the dehydrogenation of hydrocarbons, having a cylindrical shape along a vertical axis, an upper bottom and a lower bottom including at least two annular areas centred on the vertical axis, said two annular areas consisting of a so-called catalytic area (202) and a so-called exchange area (204). Sealed vertical panels (65) divide the reactor into sectors, said sectors each including at least one exchange section and at least one catalytic section, all exchange sections defining the exchange area and all catalytic sections defining the catalytic area. The invention also relates to a method that uses the reactor of the invention.

## IPC 8 full level

**B01J 8/04** (2006.01); **B01J 8/12** (2006.01); **B01J 19/24** (2006.01); **C07C 5/32** (2006.01); **C10G 35/04** (2006.01)

## CPC (source: EP US)

**B01J 8/0438** (2013.01 - EP US); **B01J 8/12** (2013.01 - EP US); **B01J 19/249** (2013.01 - EP US); **C01B 3/384** (2013.01 - EP US); **C10G 35/04** (2013.01 - EP US); **B01J 2208/00194** (2013.01 - EP US); **B01J 2208/00212** (2013.01 - EP US); **B01J 2208/00504** (2013.01 - EP US); **B01J 2208/00707** (2013.01 - EP US); **B01J 2208/00752** (2013.01 - EP US); **B01J 2208/00761** (2013.01 - EP US); **B01J 2208/00814** (2013.01 - EP US); **B01J 2208/00884** (2013.01 - EP US); **B01J 2208/022** (2013.01 - EP US); **B01J 2219/00006** (2013.01 - EP US); **B01J 2219/185** (2013.01 - EP US); **B01J 2219/1943** (2013.01 - EP US); **B01J 2219/2455** (2013.01 - EP US); **B01J 2219/2458** (2013.01 - EP US); **B01J 2219/2462** (2013.01 - EP US); **B01J 2219/2481** (2013.01 - EP US); **C01B 2203/063** (2013.01 - EP US); **C01B 2203/066** (2013.01 - EP US); **C01B 2203/0811** (2013.01 - EP US); **C01B 2203/148** (2013.01 - EP US)

## Citation (search report)

See references of WO 2009101280A1

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

## Designated extension state (EPC)

AL BA MK RS

## DOCDB simple family (publication)

**FR 2924624 A1 20090612**; **FR 2924624 B1 20091120**; EP 2222395 A1 20100901; KR 20100105572 A 20100929; SA 108290772 B1 20130430; TW 200940171 A 20091001; US 2010252482 A1 20101007; WO 2009101280 A1 20090820

## DOCDB simple family (application)

**FR 0708560 A 20071206**; EP 08872450 A 20081201; FR 2008001675 W 20081201; KR 20107012150 A 20081201; SA 108290772 A 20081201; TW 97147526 A 20081205; US 74624908 A 20081201