Title (en)

REACTOR FOR CHEMICAL CONVERSION OF A FEEDSTOCK IN THE PRESENCE OF A DILUENT, WITH HEAT INPUTS AND FEEDSTOCK/CATALYST CROSS-CIRCULATION

Title (de)

REAKTOR ZUR CHEMISCHEN UMWANDLUNG EINES AUSGANGSMATERIALS IN GEGENWART EINES VERDÜNNUNGSMITTELS MIT WÄRMEZUFUHR UND AUSGANGSMATERIAL/KATALYSATOR-QUERZIRKULATION

Title (fr)

REACTEUR DE CONVERSION CHIMIQUE D'UNE CHARGE EN PRESENCE D'UN DILUANT, AVEC APPORTS DE CHALEUR ET CIRCULATION CROISEE DE LA CHARGE ET D'UN CATALYSEUR

Publication

**EP 1341601 A1 20030910 (FR)**

Application

**EP 01998397 A 20011107**

Priority

- FR 0103459 W 20011107
- FR 0015424 A 20001129

Abstract (en)

[origin: WO0243852A1] The invention concerns a reactor (R) for chemical conversion in the presence of a gas diluent comprising between an upper end and a lower end a substantially vertical catalytic bed (3a, 3b, 3c) and comprising in combination proximate to its upper end at least means (9) for introducing a solid catalyst, means for introducing (1) and evacuating (2) said feedstock enabling its substantially horizontal circulation across the catalytic bed (3a, 3b, 3c), proximate to its lower end catalyst extracting means (7a, 7b, 7c, 8a, 8b, 8c), at least means for heating (4a, 4b) said feedstock to which said diluent has been added, said means (4a, 4b) being internal to the reactor (R) and traversed by said diluent-added feedstock in the absence of the catalyst, and separating the catalytic bed (3a, 3b, 3c) into an upstream part and a downstream part at said heating means (4a, 4b) relative to the feedstock circulating direction, comprising at least means for introducing a stream of said gas diluent (10a, 10b, 10c) substantially proximate to at least one of the upper and/or lower ends of said upstream part of the catalytic bed (3a, 3b), so as to at least reduce bypassing of said heating means by said diluent-added feedstock.

IPC 1-7

**B01J 8/12**; B01J 8/08; B01J 8/00

IPC 8 full level

**B01J 8/00** (2006.01); **B01J 8/04** (2006.01); **B01J 8/08** (2006.01); **B01J 8/12** (2006.01); **C07C 5/333** (2006.01); **C07C 11/02** (2006.01); **C07C 11/06** (2006.01); **C07C 11/08** (2006.01); **C07C 11/09** (2006.01); **C07C 15/46** (2006.01)

CPC (source: EP US)

**B01J 8/003** (2013.01 - EP US); **B01J 8/0035** (2013.01 - EP US); **B01J 8/0438** (2013.01 - EP US); **B01J 8/0496** (2013.01 - EP US); **B01J 8/087** (2013.01 - EP US); **B01J 8/12** (2013.01 - EP US); B01J 2208/00115 (2013.01 - EP US); B01J 2208/00707 (2013.01 - EP US)

Citation (search report)

See references of WO 0243852A1

Designated contracting state (EPC)

BE DE ES GB IT NL

DOCDB simple family (publication)

**WO 0243852 A1 20020606**; CA 2430247 A1 20020606; EP 1341601 A1 20030910; FR 2817171 A1 20020531; FR 2817171 B1 20030905; JP 2004514552 A 20040520; MX PA03004586 A 20040505; US 2004071593 A1 20040415; US 7070742 B2 20060704

DOCDB simple family (application)

**FR 0103459 W 20011107**; CA 2430247 A 20011107; EP 01998397 A 20011107; FR 0015424 A 20001129; JP 2002545818 A 20011107; MX PA03004586 A 20011107; US 43277403 A 20031110