

Title (en)

DEVICE AND METHOD FOR ROTARY FLUIDIZED BED IN A SUCCESSION OF CYLINDRICAL CHAMBERS

Title (de)

VORRICHTUNG UND VERFAHREN FÜR EINE ROTIERENDE WIRBELSCHICHT IN EINER ABFOLGE ZYLINDRISCHER KAMMERN

Title (fr)

DISPOSITIF ET PROCEDE A LIT FLUIDIFIE ROTATIF DANS UNE SUCCESSION DE CHAMBRES CYLINDRIQUES

Publication

**EP 1819431 A1 20070822 (FR)**

Application

**EP 05849040 A 20051209**

Priority

- EP 2005056639 W 20051209
- BE 200400612 A 20041215

Abstract (en)

[origin: WO2006063964A1] The invention concerns a device and a method for rotary fluidized bed for catalytic polymerization, drying and other treatments of solid particles or for catalytic transformation of fluids, wherein a cylindrical reactor (1), in which the fluids are injected (7) tangentially to its cylindrical wall, is divided into a succession of cylindrical chambers (Z1, Z2, Z3) by hollow discs (3), which are fixed to its cylindrical wall, which have central openings through which the fluids circulating in rotation inside the cylindrical chambers are sucked (10), which have lateral openings through which said fluids are evacuated through the cylindrical wall of the reactor and which have passages (27) for transferring the suspended solid particles in the rotary fluidized bed from one chamber to the next through said discs (3).

IPC 8 full level

**A23L 5/30** (2016.01); **B01J 8/00** (2006.01); **B01J 8/12** (2006.01); **B01J 8/18** (2006.01); **B01J 8/20** (2006.01); **B01J 8/28** (2006.01); **B01J 8/36** (2006.01); **B01J 8/38** (2006.01); **B26B 3/08** (2006.01); **F26B 7/00** (2006.01); **F26B 17/00** (2006.01)

CPC (source: EP KR US)

**B01J 8/00** (2013.01 - KR); **B01J 8/0025** (2013.01 - EP US); **B01J 8/0065** (2013.01 - EP US); **B01J 8/18** (2013.01 - EP KR US); **B01J 8/1818** (2013.01 - EP US); **B01J 8/1863** (2013.01 - EP US); **B01J 8/20** (2013.01 - EP US); **B01J 8/28** (2013.01 - EP US); **B01J 8/36** (2013.01 - EP US); **B01J 8/386** (2013.01 - EP US); **B01J 2208/0061** (2013.01 - EP US); **B01J 2208/0084** (2013.01 - EP US); **B01J 2219/182** (2013.01 - EP US); **B01J 2219/185** (2013.01 - EP US); **B01J 2219/187** (2013.01 - EP US)

Citation (search report)

See references of WO 2006063964A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006063964 A1 20060622**; BE 1016381 A3 20061003; CN 101124036 A 20080213; EP 1819431 A1 20070822; JP 2008523972 A 20080710; KR 20070087076 A 20070827; US 2009098263 A1 20090416

DOCDB simple family (application)

**EP 2005056639 W 20051209**; BE 200400612 A 20041215; CN 200580048378 A 20051209; EP 05849040 A 20051209; JP 2007546029 A 20051209; KR 20077016140 A 20070713; US 79309405 A 20051209