

Title (en)
FIXED BED GASIFIER

Title (de)
FESTBETTVERGASER

Title (fr)
REACTEUR DE GAZEIFICATION A LIT SOLIDE

Publication
EP 1888718 A1 20080220 (DE)

Application
EP 06754107 A 20060602

Priority
• EP 2006005320 W 20060602
• DE 102005026764 A 20050610

Abstract (en)
[origin: WO2006131281A1] The invention relates to a fixed bed gasifier (1) functioning with a fixed bed that is penetrated by air and/or vapor in a countercurrent. In comparison to the resulting pyrolysis coke, the actual pyrolysis zone is so thin that the material dwell time in said pyrolysis zone is only a few minutes while the dwell time of the pyrolysis coke in the pyrolysis coke layer can last for several hours. The pyrolysis is carried out allothermically, whereby a highly energetic, low-dust and low-tar gas is obtained. Process control can be reliably automatised. The reaction and pyrolysis gases are escaped through the heating chamber (3), thereby eliminating the last tar components.

IPC 8 full level
C10J 3/66 (2006.01); **C10J 3/10** (2006.01); **C10J 3/76** (2006.01)

CPC (source: EP KR US)
C10J 3/10 (2013.01 - EP US); **C10J 3/20** (2013.01 - KR); **C10J 3/32** (2013.01 - EP US); **C10J 3/482** (2013.01 - EP US);
C10J 3/66 (2013.01 - EP US); **C10J 3/76** (2013.01 - EP US); **C10K 3/008** (2013.01 - EP US); **C10K 3/023** (2013.01 - EP US);
C10J 2200/06 (2013.01 - EP US); **C10J 2200/09** (2013.01 - EP US); **C10J 2300/0916** (2013.01 - EP US); **C10J 2300/092** (2013.01 - EP US);
C10J 2300/0956 (2013.01 - EP US); **C10J 2300/0973** (2013.01 - EP US); **C10J 2300/1223** (2013.01 - EP US); **C10J 2300/1269** (2013.01 - EP US)

Citation (search report)
See references of WO 2006131281A1

Cited by
US8475552B2

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 2006131281 A1 20061214; BR PI0613215 A2 20101228; CA 2609977 A1 20061214; CA 2609977 C 20130806; CN 101198676 A 20080611;
CN 101198676 B 20120829; DE 102005026764 B3 20070405; EP 1888718 A1 20080220; JP 2008545860 A 20081218;
KR 101330719 B1 20131120; KR 20080040629 A 20080508; US 2008086945 A1 20080417; US 7967880 B2 20110628

DOCDB simple family (application)
EP 2006005320 W 20060602; BR PI0613215 A 20060602; CA 2609977 A 20060602; CN 200680020422 A 20060602;
DE 102005026764 A 20050610; EP 06754107 A 20060602; JP 2008515113 A 20060602; KR 20077028581 A 20060602;
US 99866607 A 20071201