

Title (en)

METHOD AND DEVICE FOR UTILIZING BIOMASS IN A BIOMASS GASIFICATION PROCESS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERWERTUNG VON BIOMASSE IN EINEM BIOMASSEN-VERGASUNGSPROZESS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE VALORISATION DE BIOMASSE DANS UN PROCÉDÉ DE GAZÉIFICATION DE LA BIOMASSE

Publication

**EP 2403927 A2 20120111 (DE)**

Application

**EP 10707267 A 20100303**

Priority

- EP 2010052655 W 20100303
- DE 102009011358 A 20090305

Abstract (en)

[origin: WO2010100174A2] The invention relates to a method for utilizing biomass, wherein the following steps are performed: First, at least one raw material containing carbon is thermally gasified. In a next step, the synthesis gas produced in the gasification is purified. During said purification, the temperature of the synthesis gas is changed. Then the synthesis gas is preferably converted into a liquid fuel by means of a catalyzed chemical reaction, wherein a straw-like biomass is selected as the raw material containing carbon, the gasification is performed in a fixed bed reactor, and the ash-softening temperature of the straw-like raw material is increased by adding at least one alkaline-earth salt.

IPC 8 full level

**C10J 3/20** (2006.01)

CPC (source: EP US)

**C10J 3/20** (2013.01 - EP US); **C10K 1/002** (2013.01 - EP US); **C10K 1/004** (2013.01 - EP US); **C10K 1/026** (2013.01 - EP US); **C10K 3/008** (2013.01 - EP US); **C10J 2300/0916** (2013.01 - EP US); **C10J 2300/0996** (2013.01 - EP US); **C10J 2300/1659** (2013.01 - EP US); **Y02P 20/129** (2015.11 - EP US); **Y02P 20/145** (2015.11 - EP US)

Citation (search report)

See references of WO 2010100174A2

Citation (examination)

WANG HONGLI ET AL: "Research on High Efficient Straw Gasifier", 1 January 2009, PROCEEDINGS OF ISES WORLD CONGRESS 2007 (VOL. I - VOL. V) - SOLAR ENERGY AND HUMAN SETTLEMENT, SPRINGER, DE, PAGE(S) 2383 - 2387, ISBN: 978-3-540-75996-6, XP008178046

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

DOCDB simple family (publication)

**WO 2010100174 A2 20100910; WO 2010100174 A3 20110310**; CN 102361962 A 20120222; DE 102009011358 A1 20100916; EA 021911 B1 20150930; EA 201190154 A1 20120330; EP 2403927 A2 20120111; GE P20146097 B 20140527; UA 105924 C2 20140710; US 2012017497 A1 20120126

DOCDB simple family (application)

**EP 2010052655 W 20100303**; CN 201080012836 A 20100303; DE 102009011358 A 20090305; EA 201190154 A 20100303; EP 10707267 A 20100303; GE AP2010012407 A 20100303; UA A201111658 A 20100303; US 201013254799 A 20100303