

Title (en)
SYNGAS REACTOR AND PROCESS WITH A HEATED COKE CLOUD

Title (de)
SYNTHESEGASREAKTOR UND VERFAHREN MIT BEHEIZTER KOKSWOLKE

Title (fr)
RÉACTEUR DE GAZ DE SYNTHÈSE ET PROCÉDÉ À NUAGE DE COKE CHAUFFÉ

Publication
EP 2480632 A2 20120801 (DE)

Application
EP 10757153 A 20100903

Priority
• DE 102009039836 A 20090903
• EP 2010005409 W 20100903

Abstract (en)
[origin: WO2011026631A2] The invention relates to a device (1) for producing syngas (4) from substantially solid fuels, preferably biomass (2), by steam reforming, using at least one pyrolysis reactor (16) for the formation of pyrolysis gas containing tar and coke particles. In order to produce a syngas that is substantially devoid of tar in a simple, cost-effective manner, the device is provided with at least one coke cloud reactor (11) and said coke cloud reactor (11) has at least one heating device (18) for the catalytic cracking of the tar in the pyrolysis gas.

IPC 8 full level
C10B 47/24 (2006.01); **C10B 53/02** (2006.01); **C10J 3/66** (2006.01)

CPC (source: EP)
C10B 19/00 (2013.01); **C10B 47/24** (2013.01); **C10B 53/02** (2013.01); **C10J 3/482** (2013.01); **C10J 3/66** (2013.01); **C10J 3/84** (2013.01); **C10K 3/006** (2013.01); **C10J 2300/0916** (2013.01); **C10J 2300/0956** (2013.01); **C10J 2300/0959** (2013.01); **C10J 2300/0973** (2013.01); **C10J 2300/1276** (2013.01); **C10J 2300/1684** (2013.01); **C10J 2300/1846** (2013.01); **Y02E 50/10** (2013.01); **Y02P 20/145** (2015.11)

Citation (search report)
See references of WO 2011026631A2

Designated contracting state (EPC)
AL 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)
DE 102009039836 A1 20110310; EP 2480632 A2 20120801; TW 201113359 A 20110416; TW I522453 B 20160221;
WO 2011026631 A2 20110310; WO 2011026631 A3 20120628

DOCDB simple family (application)
DE 102009039836 A 20090903; EP 10757153 A 20100903; EP 2010005409 W 20100903; TW 99129463 A 20100901