

Title (en)
METHOD AND DEVICE FOR THE PYROLYSIS AND GASIFICATION OF MATERIAL MIXTURES CONTAINING ORGANIC COMPONENTS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR PYROLYSE UND VERGASUNG VON STOFFGEMISCHEN, DIE ORGANISCHE BESTANDTEILE ENTHALTEN

Title (fr)
PROCEDE ET DISPOSITIF POUR PYROLYSER ET GAZEIFIER DES MELANGES DE MATIERES A COMPOSANTS ORGANIQUES

Publication
EP 1399527 B1 20130220 (DE)

Application
EP 02754763 A 20020626

Priority
• DE 10131008 A 20010627
• DE 10228100 A 20020624
• EP 0207078 W 20020626

Abstract (en)
[origin: WO03002691A1] The invention is used for the pyrolysis and gasification of material mixtures containing organic components. The organic materials or the material mixture containing organic components are brought into contact with a heat transfer medium, preferably the ash from a combustion reactor, and pyrolysed in a pyrolysis reactor, preferably a shaft reactor. The coke which is generated by pyrolysis is combusted with an air supply in a combustion reactor, preferably in a fluidized bed reactor. The condensable components of the crude gas which is generated by pyrolysis are cracked in a cracking reactor, preferably by means of a catalyst. In order to improve said method, the heat transfer medium is transported using overheated steam (50) as a fluidizing medium.

IPC 8 full level
C10B 49/16 (2006.01); **C10B 53/00** (2006.01); **C10G 1/02** (2006.01); **C10J 3/46** (2006.01); **C10J 3/48** (2006.01); **C10J 3/64** (2006.01); **C10J 3/66** (2006.01); **C10K 3/00** (2006.01); **F23G 5/00** (2006.01)

CPC (source: EP)
C10B 49/16 (2013.01); **C10B 53/00** (2013.01); **C10G 1/02** (2013.01); **C10J 3/32** (2013.01); **C10J 3/34** (2013.01); **C10J 3/466** (2013.01); **C10J 3/485** (2013.01); **C10J 3/64** (2013.01); **C10J 3/66** (2013.01); **C10K 3/008** (2013.01); **C10K 3/023** (2013.01); **F23G 5/006** (2013.01); **C10J 2200/09** (2013.01); **C10J 2300/0943** (2013.01); **C10J 2300/0956** (2013.01); **C10J 2300/0973** (2013.01); **C10J 2300/0986** (2013.01); **C10J 2300/1606** (2013.01); **C10J 2300/1807** (2013.01); **F23G 2201/301** (2013.01); **F23G 2201/304** (2013.01); **F23G 2201/40** (2013.01); **F23G 2203/502** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 03002691 A1 20030109; **WO 03002691 A8 20030925**; EP 1399527 A2 20040324; EP 1399527 B1 20130220

DOCDB simple family (application)
EP 0207078 W 20020626; EP 02754763 A 20020626