Title (en)
METHOD FOR THERMAL TREATMENT OF MATERIAL CONTAINING VOLATILE, COMBUSTIBLE CONSTITUENTS

Title (de)
VERFAHREN ZUM THERMISCHEN BEHANDELN VON FLÜCHTIGE, BRENNBARE BESTANDTEILE ENTHALTENDEM MATERIAL

Title (fr)
PROCEDE DE TRAITEMENT THERMIQUE D'UNE MATIERE CONTENANT DES CONSTITUANTS COMBUSTIBLES VOLATILES

Publication
EP 1015527 B1 20011024 (DE)

Application
EP 98945153 A 19980806

Priority
• DE 19738106 A 19970901
• EP 9804889 W 19980806

Abstract (en)
[origin: DE19738106A1] The feed material containing volatile, combustible constituents can have a water content of up to 20 wt. %. Said material is mixed with hot granulated solids in a pyrolysis reactor. The hot solids come from a collecting bin at temperatures ranging from 700-1100 DEG C and are conducted to the upper area of the pyrolysis reactor. The upper area of the reactor contains a flow zone. A moving bed or a fluidized bed with temperatures ranging from 650 DEG -1000 DEG C are arranged below the flow zone. The hot, granular solids and the feed material are jointly conducted at least in part through the flow area or fluidized bed in a downward direction. Gases and vapours are guided through the flow zone in an upward direction and removed from the upper area of the reactor. A solid mixture is removed from the lower area of the reactor and at least one part thereof is heated outside the reactor and is returned to the pyrolysis reactor via the collector bin.

IPC 1-7
C10B 49/16; C10B 53/00

IPC 8 full level
C10B 49/16 (2006.01); **C10B 49/22** (2006.01); **C10B 53/00** (2006.01)

CPC (source: EP)
C10B 49/16 (2013.01); **C10B 49/22** (2013.01); **C10B 53/00** (2013.01)

Cited by
WO2012004709A1; US8764861B2; DE102007032683A1; DE102008008942A1; US8613783B2; DE102008008943A1; US8936657B2; US9764300B2

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
DE 19738106 A1 19990304; **DE 19738106 C2 20010104**; AU 9257398 A 19990322; DE 59801891 D1 20011129; EP 1015527 A1 20000705; EP 1015527 B1 20011024; ES 2165192 T3 20020301; WO 9911736 A1 19990311

DOCDB simple family (application)
DE 19738106 A 19970901; AU 9257398 A 19980806; DE 59801891 T 19980806; EP 9804889 W 19980806; EP 98945153 A 19980806; ES 98945153 T 19980806