

Title (en)
METHOD AND APPARATUS FOR HEATING A ROTARY KILN DESIGNED FOR GASIFICATION AND PYROLYSIS OF ORGANIC MATERIAL

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BEHEIZUNG EINES DREHROHROFENS ZUR VERGASUNG UND ZUR PYROLYSE VON ORGANISCHEN SUBSTANZEN

Title (fr)
PROCEDE ET APPAREIL DE CHAUFFAGE D'UN FOUR ROTATIF CONCU POUR LA GAZEIFICATION ET LA PYROLYSE D'UNE MATIERE ORGANIQUE

Publication
EP 0985009 B1 20030402 (EN)

Application
EP 98924060 A 19980526

Priority

- DK 9800213 W 19980526
- DK 63197 A 19970530

Abstract (en)
[origin: WO9854273A1] Method for heating a rotary kiln (1) designed for gasification and pyrolysis of organic material. The energy for heating the rotary kiln (1) is supplied by means of a radiation heat exchanger (2), positioned inside and longitudinally in the rotary kiln (1), and the energy supply to the radiation heat exchanger (2) is provided in a controlled manner over the length thereof, in order to achieve a temperature distribution inside the rotary kiln (1), which is optimised for the desired gasification and pyrolysis. The energy supply to the radiation heat exchanger (2) is provided by controlled combustion of a combustible gas, such as the pyrolytic gas inside the radiation heat exchanger (2). A surprising advantage is achieved by controlled partial combustion of the pyrolytic gas (8) inside the radiation heat exchanger (2), the most condensable part of the pyrolytic gas (8) hereby being combusted so that the tendency to condensation of pyrolytic gas in the succeeding pipelines is reduced.

IPC 1-7
C10B 53/00; **F27B 7/34**; **F23G 5/20**

IPC 8 full level
C10B 1/10 (2006.01); **C10B 47/30** (2006.01); **F23G 5/027** (2006.01); **F23G 5/20** (2006.01)

CPC (source: EP)
C10B 1/10 (2013.01); **C10B 47/30** (2013.01); **F23G 5/0273** (2013.01); **F23G 5/20** (2013.01); **F23G 2201/303** (2013.01)

Designated contracting state (EPC)
AT DE DK ES FR GB IE IT NL SE

DOCDB simple family (publication)
WO 9854273 A1 19981203; AT E236232 T1 20030415; AU 7639198 A 19981230; DE 69812932 D1 20030508; DE 69812932 T2 20031224; DK 0985009 T3 20030422; EP 0985009 A1 20000315; EP 0985009 B1 20030402; ES 2196561 T3 20031216

DOCDB simple family (application)
DK 9800213 W 19980526; AT 98924060 T 19980526; AU 7639198 A 19980526; DE 69812932 T 19980526; DK 98924060 T 19980526; EP 98924060 A 19980526; ES 98924060 T 19980526