

Title (en)

Oven using a cell for pyrolytic cleaning

Title (de)

Herd mit Zelle zur pyrolitischen Reinigung

Title (fr)

Four a pyrolyse utilisant une cellule de craquage de salissures

Publication

EP 1028290 B1 20060322 (FR)

Application

EP 00400254 A 20000131

Priority

FR 9901512 A 19990209

Abstract (en)

[origin: EP1028290A1] The pyrolysis oven comprises a baking cavity (1), an outlet pipe (2) connecting the cavity to the outside environment (3) and a cell (4) for cracking waste products placed in the pipe which is active during pyrolysis. The oven includes a device (7) for making the cell inactive in the cooking mode. The device for making the cell inactive is a device for cooling the cell, comprising a flow of cooling air across the cell when the oven is cooking. The cracking cell is made completely inactive at a temperature below a minimum temperature T1 and completely active at a temperature above a maximum temperature T2. The intensity of the cooling air flow is sufficient that the temperature of the cell T is below T1 during baking and above T2 during pyrolysis. The cooling air flow is pulsed. The oven contains a main cooling air circuit from which a deviation (7) carries the flow to the cell. The pressure in the main circuit is greater than the pressure in the cavity at the level of the deviation. The ratio of the section of the pipe and the section of the deviation is between 10 and 20. The deviation comprises a zone along the length of the pipe and extending from the external wall of a body (10) enclosing the cavity to the internal wall of the body. The deviation has upper orifices between the main circuit and the deviation zone and lower orifices between the deviation zone and the end of the pipe at the cavity. The cell is a catalytic cell and is placed at least partly below the external wall of a body defining the cavity.

IPC 8 full level

F24C 14/02 (2006.01)

CPC (source: EP)

F24C 14/02 (2013.01); **F24C 15/2014** (2013.01)

Cited by

EP2687787A3; EP2180259A1; WO2011080100A3; US9551493B2

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

EP 1028290 A1 20000816; **EP 1028290 B1 20060322**; DE 60026809 D1 20060511; DE 60026809 T2 20070329; ES 2261161 T3 20061116; FR 2789480 A1 20000811; FR 2789480 B1 20010504

DOCDB simple family (application)

EP 00400254 A 20000131; DE 60026809 T 20000131; ES 00400254 T 20000131; FR 9901512 A 19990209