Title (en)

Oven using a cell for pyrolytic cleaning

Title (de)

Herd mit Zelle zur pyrolitischen Reinigung

Title (fr)

Four a pyrollyse utilisant une cellule de craquage de salissures

Publication

EP 1028290 A1 20000816 (FR)

Application

EP 00400254 A 20000131

Priority

FR 9901512 A 19990209

Abstract (en)

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.

Abstract (fr)

L'invention concerne le domaine des fours à pyrolyse. C'est un four à pyrolyse comportant une cavité (1) de cuisson, un conduit (2) d'évacuation reliant la cavité (1) au milieu extérieur (3), une cellule (4) de craquage de salissures située dans le conduit (2) et active en mode pyrolyse, le four comportant des moyens (7, f1) rendant la cellule (4) inactive en mode cuisson. L'inactivation de la cellule (4) en mode cuisson permet d'empêcher la génération de mauvaises odeurs pendant la cuisson, dans les fours à pyrolyse utilisant une cellule (4) de craquage. <IMAGE>

IPC 1-7

F24C 14/02

IPC 8 full level

F24C 14/02 (2006.01)

CPC (source: EP)

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

Citation (search report)

- [A] US 4163894 A 19790807 - SCHERER RICHARD M [US]
- [A] DE 3516847 A1 19861113 - MIELE & CIE [DE]

Cited by

EP2687787A3; EP2180259A1; WO2011080100A3; US9551493B2

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DOCDB simple family (application)

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