

Title (en)

Refractory ceramic tile and associated wall construction for a furnace

Title (de)

Feuerfeste keramische Platte und zugehöriger Wandaufbau für einen Verbrennungsofen

Title (fr)

Brique réfractaire et construction de paroi de four associée

Publication

EP 1124094 B1 20031203 (DE)

Application

EP 01101412 A 20010123

Priority

DE 10005426 A 20000208

Abstract (en)

[origin: US6487980B2] A refractory ceramic plate and an accompanying wall structure for an incinerator, such as a garbage incinerator. The refractory ceramic plate has at least two recesses arranged on a main surface of the plate, wherein a blind hole runs from each recess to the interior of the plate. The wall structure features a furnace wall, in which numerous pipes spaced apart from each other, through which a fluid can flow, are arranged. Anchors are secured to sections of the furnace wall with one end, and project essentially perpendicularly from the furnace wall. A hollow space is formed between the furnace wall and the refractory ceramic plates spaced parallel apart from the furnace wall. Joints are formed between boundary regions of the refractory ceramic plates on main surfaces thereof, facing the furnace wall. The anchors lie in the joints, with free ends embedded in a heat-resistant filling. A heat-resistant, deformable compensating layer is provided in the joint area between adjacent plates. A refractory compound fills the hollow space between the furnace wall and the refractory ceramic plates, and covers sections of the anchors running into the hollow space.

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F23M 5/04; **F27D 1/12**

IPC 8 full level

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CPC (source: EP US)

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Cited by

DE102008057920A1; CH699405A1; WO2010022522A1; WO2013160339A3

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