

Title (en)

GASIFICATION REACTOR FOR PRODUCING CRUDE GAS CONTAINING CO OR H2

Title (de)

VERGASUNGSREACTOR ZUR HERSTELLUNG VON CO-ODER H2-HALTIGEM ROHGAS

Title (fr)

RÉACTEUR DE GAZÉIFICATION POUR LA FABRICATION DE GAZ BRUT À TENEUR EN CO OU H2

Publication

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Application

**EP 10736620 A 20100716**

Priority

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Abstract (en)

[origin: CA2768592A1] The invention relates to a gasification reactor for producing crude gas containing CO or H2 by gasification of ash-containing fuel with oxygen-containing gas at temperatures above the fusion temperature of the ash, wherein a reaction chamber, formed by a membrane wall that is flown through by a cooling medium, is provided inside a pressure vessel, comprising a transition channel that is tapering into a gas cooling chamber. According to the invention, spin-reducing, cooled bulkheads are provided in the transition channel. The aim of the invention is, on the one hand, to achieve a strain formation of the draining ash and, on the other hand, to provide another slag drip edge that ensures an optimal slag drain. Said aim is achieved by the provision that the wall (14) supporting the bulkheads (9) changes below the bulkheads into a cylinder wall (17) having a reduced diameter via an step (21) with a corrugated surface, that the cylinder wall (17) having a reduced diameter is surrounded by another cylindrical wall (19) having a larger diameter, which forms on its end and in the direction of gravity a second slag drip edge (10) and that the additional cylindrical wall (19) is adjustably (arrow 22) arranged in its vertical position with respect to the first drip edge (18).

IPC 8 full level

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