

Title (en)
GASIFICATION REACTOR FOR PRODUCING CRUDE GAS

Title (de)
VERGASUNGSREAKTOR ZUR HERSTELLUNG VON ROHGAS

Title (fr)
RÉACTEUR DE GAZÉIFICATION POUR LA FABRICATION DE GAZ BRUT

Publication
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Application
EP 10734696 A 20100716

Priority

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Abstract (en)
[origin: WO2011012230A2] 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. Furthermore, a transition area and a quenching chamber as well as a slag/water bath are provided subsequently in the direction of gravity. The aim of the invention is in particular to provide a slag container which is of economical design and has at the same time manifold functions. Said aim is achieved by the fact that a funnel-shaped slag collecting tank (12) is provided in the slag/water bath (13), which is provided with a second funnel-shaped insert (15) as deposition cone in the direction of incidence of the slag (arrow 18), the funnel wall of said insert forming a circumferential annular gap (17) to the slag collecting tank and whose free edge (16) is positioned above the free edge (14) of the slag collecting tank (12).

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