

Title (en)
GASIFICATION REACTOR

Title (de)
VERGASUNGSREAKTOR

Title (fr)
RÉACTEUR DE GAZÉIFICATION

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Abstract (en)
[origin: CA2768595A1] The invention relates to a gasification reactor for producing crude gas containing CO or H₂, comprising a pressure vessel (2) and a reaction chamber (4) formed by a membrane wall (3) with cooling pipes, wherein an annular space is formed between the inner wall of the pressure vessel (2) and the membrane wall (3), wherein elements, such as the burner (17) or the like are provided which penetrate the wall of the pressure container and the membrane wall horizontally substantially on the same plane (18). The aim of the invention is in particular to provide a cooling screen inside the pressure container, said cooling screen comprising conical areas for the discharge of gas or slag, wherein the mounting or connection between the cooling sludge and the pressure container (load removal) is optimized because differential expansions are prevented. Said aim is achieved by providing a support which directly or indirectly acts upon the coolant inlet ducts (5) or mixture outlet ducts (14) in order to remove the load of the membrane wall (3).

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