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(54) Title: OPERATION OF A STEAM METHANE REFORMER BY DIRECT FEEDING OF STEAM RICH PRODUCER GAS FROM STEAM HYDRO-GASIFICATION

(57) Abstract: An improved, economical alternative method to supply steam and methane to a steam methane reformer (SMR) is accomplished by a combination of procedures, wherein product gas from a steam hydro-gasification reactor (SHR) is used as the feedstock for the SMR by removing impurities from the product stream from the SHR with a gas cleanup unit that operates substantially at process pressures and at a temperature above the boiling point of water at the process pressure, is located between the SHR and SMR.



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