

Title (en)  
REMOVAL OF LIQUID ASH AND ALKALIS FROM A SYNTHESIS GAS

Title (de)  
ENTFERNUNG VON FLÜSSIGASCHE UND ALKALIEN AUS EINEM SYNTHESSEGAS

Title (fr)  
ÉLIMINATION DE CENDRES LIQUIDES ET D'ALCALIS D'UN GAZ DE SYNTHÈSE

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Application  
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Abstract (en)  
[origin: CA2709963A1] The invention relates to a method for the production of synthesis gas by means of gasification using air or oxygen or oxygen-enriched air and water vapor, wherein a solid or liquid fuel containing carbon is added to a reactor, in which the fuel is converted to a synthesis gas using air or oxygen or oxygen-enriched air and water vapor at an increased temperature, said gas substantially consisting of hydrogen, carbon dioxide, and carbon monoxide, and mineral slag droplets being created during the reaction, which are taken out of the reactor separately from the synthesis gas obtained, and the synthesis gas obtained is taken out of the reactor in any arbitrary direction. The vaporous alkalis present in the synthesis gas are removed from the synthesis gas by means of bringing the same into contact with getter ceramics, and the synthesis gas is fed into a slug separation device without prior cooling, in which the slug droplets are withdrawn as liquid slug.

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