

Title (en)

PRODUCING SYNTHESIS GAS FROM CARBON-RICH SUBSTANCES BY MEANS OF A COMBINED CO-CURRENT/COUNTER-CURRENT METHOD

Title (de)

HERSTELLUNG VON SYNTHESEGAS AUS KOHLENSTOFFREICHEN SUBSTANZEN MITTELS EINES KOMBINIERTES GLEICHSTROM-GEGENSTROM VERFAHRENS

Title (fr)

PRODUCTION DE GAZ DE SYNTHÈSE À PARTIR DE SUBSTANCES RICHES EN CARBONE AU MOYEN D'UN PROCÉDÉ COMBINÉ DE CO-COURANT ET CONTRE-COURANT

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Application

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Abstract (en)

[origin: WO2018146179A1] The invention relates to a method for producing synthesis gas (130) from carbon-rich substances (112) in a vertical shaft with a bulk material moving bed (110), wherein a pyrolysis zone (141) and a reduction zone (142) are formed from an oxidation zone (143) in the bulk material moving bed (110) through which the gas flows in order to generate components of the synthesis gas (130), wherein the synthesis gas (130) is withdrawn at a removal point (131) between an upper bulk material zone (114) and a lower bulk material zone (115), and the carbon-rich substances (112) are moved with the bulk material moving bed (110) from the pyrolysis zone (141) in the upper bulk material zone (114), via the central region (104), into the reduction zone (142) and into the oxidation zone (143) in the lower bulk material zone (115) of the bulk material moving bed (110), wherein there is a co-current flowing through the upper bulk material zone (114) and a counter-current flowing through the lower bulk material zone (115).

IPC 8 full level

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