

Title (en)
A METHOD OF CONVERTING COAL INTO FUELS

Title (de)
VERFAHREN ZUR UMWANDLUNG VON KOHLE IN BRENNSTOFFE

Title (fr)
PROCEDE DE CONVERSION DU CHARBON EN COMBUSTIBLES

Publication
EP 1996679 A1 20081203 (EN)

Application
EP 06705065 A 20060117

Priority
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• BG 10924705 A 20050729

Abstract (en)
[origin: WO2007012151A1] The method is applicable to chemical and petrochemical industries for the production of synthesis gas. The method includes the preparation of the water-coal mixture and its gasification in two stages. The first stage (2) takes place in a vertical counter-flow pipe heat-exchanger (3) on a gasification column, and the second in a heating reactor (8) with production of synthesis gas and solid residues . A stage of catalytic conversion of the synthesis gas into motor fuels follows. The vapor-gas-coal mixture in the heat-exchanger (3) is subject to an action by modulated high-frequency fields in the frequency range from 1 MHz to 50 MHz at modulation frequencies in the range from 1 KHz to 200 KHz. In the reactor (8) , the vapor-gas-coal mixture is subject to the action of plasma from single-electrode high-frequency discharges at temperature 600-800° C.

IPC 8 full level
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