

Title (en)  
METHOD OF GASIFYING SOLID FUELS IN A CIRCULATING FLUIDIZED BED

Title (de)  
VERFAHREN ZUM VERGASEN FESTER BRENNSTOFFE IN DER ZIRKULIERENDEN WIRBELSCHICHT

Title (fr)  
PROCEDE DE GAZEIFICATION DE COMBUSTIBLES SOLIDES DANS UN LIT FLUIDISE EN CIRCULATION

Publication  
**EP 0948583 A1 19991013 (DE)**

Application  
**EP 97952838 A 19971201**

Priority  
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Abstract (en)  
[origin: DE19652770A1] Combustible fuels, for example waste substances, biomass or coal, are gasified in a circulating fluidized bed with the addition of oxygenous gas at temperatures ranging from 700 to 1000 DEG C. A fuel gas is obtained which contains dust and hydrocarbons, including higher hydrocarbons (C6+ hydrocarbons), and has a calorific value of between 2000 and 8000 kJ/m<3>. The dust-laden gas is passed through a separation chamber in which the higher hydrocarbons present in the gas are largely separated by the addition of gaseous oxygen at temperatures ranging from 800 to 1200 DEG C and below the temperature of the ash melting point. The content of C6+ hydrocarbons present in the gas emerging from the separation chamber is at most 10 wt % of the initial content. The gas from the separation chamber is cooled and dedusted and passed through at least one bed or at least one reactor with granular solids which bind with pollutants. The gas-purification process is carried out without forming waste water.

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IPC 8 full level  
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