

Title (en)

PROCESS FOR THE GASIFICATION OF CARBONACEOUS FUEL IN A FLUIDIZED BED GASIFIER

Title (de)

VERFAHREN ZUR VERGASUNG VON KOHLENSTOFF-BRENNSTOFF IN EINEM WIRBELSCHICHT-VERGASER

Title (fr)

PROCEDE DE GAZEIFICATION DE COMBUSTIBLE CARBONE DANS UN GAZEIFIEUR A LIT FLUIDISE

Publication

EP 1165726 B1 20110921 (EN)

Application

EP 00901645 A 20000124

Priority

- FI 0000047 W 20000124
- FI 990133 A 19990125

Abstract (en)

[origin: WO0043468A1] The invention relates to a process for the gasification of a carbonaceous fuel in a fluidized bed gasifier (1). In the process, a fuel (5), such as coal or peat, and a primary gasification gas (6, 7), such as air, are fed into the gasifier, and a product gas (10) is removed from the gasifier, the product gas being purified by separating fine-grained solid ingredients (16) therefrom. The solids fraction (16) which is separated from the product gas (16) and which contains unreacted carbon is fed together with a stoichiometric excess of air (27) into another fluidized bed reactor (20), which serves as an oxidizer, and the oxygen-containing gas (34) exiting from the oxidizer is directed to the fluidized bed gasifier (1) as a secondary gasification gas. By the increased oxidation, the carbon conversion in the process is increased and a residual ash with a low carbon content is produced.

IPC 8 full level

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CPC (source: EP)

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