

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

**C10J 3/54** (2006.01); **C10J 3/16** (2006.01)

CPC (source: EP)

**C10J 3/482** (2013.01); **C10J 3/54** (2013.01); **C10J 3/721** (2013.01); **C10K 1/024** (2013.01); **C10K 1/026** (2013.01); **C10J 2300/093** (2013.01); **C10J 2300/0956** (2013.01); **C10J 2300/1693** (2013.01); **C10J 2300/1823** (2013.01); **C10J 2300/1884** (2013.01)

Cited by

US5346082A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0043468 A1 20000727**; AT E525450 T1 20111015; AU 2297600 A 20000807; DK 1165726 T3 20120123; EP 1165726 A1 20020102; EP 1165726 B1 20110921; FI 110266 B 20021231; FI 990133 A0 19990125; FI 990133 A 20000726

DOCDB simple family (application)

**FI 0000047 W 20000124**; AT 00901645 T 20000124; AU 2297600 A 20000124; DK 00901645 T 20000124; EP 00901645 A 20000124; FI 990133 A 19990125