

Title (en)

Process for the treatment of the exhaust gas from the gasification of carbonaceous material

Title (de)

Verfahren zum Behandeln von Abgas aus der Vergasung von kohlenstoffhaltigem Material

Title (fr)

Procédé de traitement des gaz de fumées provenant de la gazéification de matières carbonées

Publication

EP 0776961 B1 20010228 (DE)

Application

EP 96116298 A 19961011

Priority

DE 19544200 A 19951128

Abstract (en)

[origin: EP0776961A1] This new process cleans gases from the partially-oxidative gasification of carbonaceous materials at 700-1100 degrees C. Solids entrained in the gases are separated by a cyclone. In the new process, a gas extraction line leaves high on the cyclone; solids leave via a low outlet channel. Through this channel in addition, a side stream, 5-30% of the gas, is led with the solids into an oxidation chamber. Here, at 1300-1800 degrees C, a lean oxygen supply produces either flue- or fuel gas, and slag. This gas, together with gas from the extraction line of the cyclone, is led into a mixing chamber. The mixture has a temperature of 900-1200 degrees C, and residence time at least of 0.5 seconds. Gases extracted from the mixing chamber are cooled.

IPC 1-7

C10J 3/46; C10J 3/48; C10J 3/50; C10J 3/52; C10J 3/54

IPC 8 full level

C10J 3/46 (2006.01); **C10J 3/48** (2006.01); **C10J 3/50** (2006.01); **C10J 3/52** (2006.01); **C10J 3/54** (2006.01); **C10J 3/84** (2006.01)

CPC (source: EP)

C10J 3/463 (2013.01); **C10J 3/54** (2013.01); **C10J 3/721** (2013.01); **C10J 3/84** (2013.01); **C10K 1/026** (2013.01); **C10J 2300/1807** (2013.01); **C10J 2300/1823** (2013.01); **C10J 2300/1884** (2013.01)

Cited by

CN105647587A; CN114717027A; EP0926220A1; DE19754802B4; US8317510B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0776961 A1 19970604; **EP 0776961 B1 20010228**; DE 19544200 A1 19970605; DE 59606497 D1 20010405

DOCDB simple family (application)

EP 96116298 A 19961011; DE 19544200 A 19951128; DE 59606497 T 19961011