

Title (en)

Process for pressure gasification of fine particulate fuels.

Title (de)

Verfahren für die Druckvergasung von feinteiligen Brennstoffen.

Title (fr)

Procédé pour la gazéification sous pression de combustibles finement divisés.

Publication

EP 0616022 B1 19950913 (DE)

Application

EP 93104291 A 19930316

Priority

EP 93104291 A 19930316

Abstract (en)

[origin: EP0616022A1] In a process for the pressure gasification of fine particulate fuels, a gasification reactor, a quench pipe and a convection boiler are concentrically arranged in a pressure vessel designed for the pressure of the pressure gasification. The crude gas axially leaving the gasification reactor at the top is introduced into the quench pipe connected to the top. A quenching gas is introduced. The mixed gas stream of crude gas and quenching gas is deflected by 180° by means of a deflection screen which is rotationally symmetrical relative to the axis of the quench pipe and transformed into a hollow-cylindrical gas stream. The hollow-cylindrical gas stream is introduced into the convection boiler which is of hollow-cylindrical shape and concentrically surrounds the quench pipe. On leaving the convection boiler, the crude gas stream is extracted out of the convection boiler by means of a crude gas extraction device. The flow velocity of the crude gas is adjusted such that particles of slag and ash entrained by the crude gas are carried via the 180° deflection into the hollow-cylindrical convection boiler. The flow velocity in the crude gas extraction device is adjusted such that the entrained particles of slag and ash are discharged.

IPC 1-7

C10J 3/46; **C10J 3/86**; **C10J 3/84**; **C10J 3/78**

IPC 8 full level

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CPC (source: EP US)

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DE102008057410B4; DE102008015801A1; DE102008015801B4; DE102009034867A1; DE102011107726B4; AU2010278409B2; DE102009005464A1; WO2011012232A3; DE102011107726A1; WO2013007341A1; DE102008057410A1; DE102011110213A1; WO2013023725A1; WO2009118082A2; US8562698B2; WO2011012232A2; US9200222B2

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