

Title (en)

METHOD AND APPARATUS FOR THE COMBUSTION OF SOLID FUELS IN A CIRCULATING FLUIDIZED BED

Publication

EP 0226140 A3 19880210 (DE)

Application

EP 86116899 A 19861204

Priority

DE 3544425 A 19851216

Abstract (en)

[origin: EP0226140A2] In a method for the combustion of solid fuels in a fluidised-bed reactor (1) with a circulating fluidised bed, the combustion gas discharge being influenced by the supply of air in a number of stages and at different heights of the fluidised-bed reactor, and ash removed from the fluidised-bed reactor being separated and conducted back into the fluidised-bed reactor, optimum combustion conditions over a wide load range, in particular for outputs below 50 MWth, are achieved simply in that separated ash is conducted back into the fluidised-bed reactor at a temperature in the range between 20 and 250 DEG C and at the same time the quantity of the ash flow conducted back is regulated depending on the combustion chamber temperature. This is preferably carried out by an uncooled combustion chamber (2), a flue gas cooler (6; 7), which is flowed through vertically, has cooling surfaces (8, 9, 10, 11) and diverts the flue gas at least once, and a filtering dust separator (14), which are arranged one behind another, and an ash return line (24) leading from the dust separator (14) to the reactor chamber (2). <IMAGE>

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F23C 11/02; **F22B 31/00**

IPC 8 full level

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CPC (source: EP)

F23C 10/10 (2013.01); **F23C 10/32** (2013.01); **F23C 2206/102** (2013.01); **F23J 2219/10** (2013.01)

Citation (search report)

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