

Title (en)

PROCESS AND APPARATUS FOR THE TREATMENT OF FUEL IN A FLUIDIZED BED

Publication

EP 0126001 B1 19880224 (FR)

Application

EP 84400961 A 19840511

Priority

FR 8308166 A 19830517

Abstract (en)

[origin: EP0126001A1] 1. Process for a fluidized bed treatment of a fuel in a plant comprising a vertical reaction chamber (1) provided at its base with means (14) for feeding fuel and means (11) for fluidizing by injecting a gas and whose upper end is connected by a gas exit duct (12) to a device (2) for recovering the entrained solid particles comprising an exit orifice (21) for the gases and an exit orifice (22) for the solid particles which are connected by a recycling circuit (23) to the base of the reaction chamber (1), characterized in that, with the nature of the fuel and the operating conditions, such as the shape and the dimensions of the plant, the particle size measurements of the particles and the gas circulation velocities, being taken into account : - a reference temperature is determined, above which the stationary solid particles are liable to adhere to each other inside the recovery device (2), - the fluidization conditions are adjusted to produce a circulating bed regime in the plant, - the reaction temperature in the dense part (15) of the fluidized bed is adjusted to a level above the reference temperature, - the average temperatures are measured in a plurality of temperature control zones (A, B, C, D, etc) placed at intervals in the direction of travel of the gases and of the solids inside the plant, - each measured temperature is compared with the determined reference temperature, and - a lowering of the average temperature is produced locally in any one zone, upstream of the recovery device (2) each time the temperature measured therein reaches the reference temperature, in order to keep the average temperature in each zone continually below the corresponding reference temperature.

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IPC 8 full level

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CPC (source: EP)

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