

Title (en)

METHOD AND APPARATUS FOR THE RECIRCULATION OF UNCOMBUSTED SOLID MATERIAL IN A FLUIDIZED BED

Publication

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Application

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Priority

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Abstract (en)

[origin: US4552078A] Process and apparatus for supplying combustible material to a fluidized bed in a vessel connected to a separating device for the solid particles entrained with the smoke and containing a certain proportion of unburnt matter, the particles recovered being recycled into the fluidized bed. During a normal operation of the fluidized bed supplied with combustible matter, the solid particles recovered in the separating device are accumulated in a silo and periodically, the supply of combustible matter is stopped and the particles accumulated in the silo are recycled into the fluidized bed with a regulated flow rate, so that the combustion of the unburnt matter contained in the recycled particles maintains the temperature of the fluidized bed at the desired level. The exothermic reaction is maintained alternately by the combustion of the combustible matter in the normal operating phase and by the combustion of the unburnt matter in the recycling phase. The invention is specially useful in boilers supplied with powdered coal.

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