

Title (en)

RE-DELIVERY SYSTEM IN A COAL GASIFICATION REACTOR

Title (de)

NACHFÖRDERSYSTEM IN EINEN KOHLEVERGASUNGSREAKTOR

Title (fr)

SYSTÈME DE RÉACHEMINEMENT DANS UN RÉACTEUR DE GAZÉIFICATION DU CHARBON

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Application

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Abstract (en)

[origin: WO2009109297A2] The invention relates to a device for the continuous supply of finely comminuted fuel of a coal gasification system. Said fuel is initially stored in a storage container and then guided into an air shower system where it is supplied with gas for the coal gasification reaction. Said air shower system comprises at least two sluice containers in order to form the tight fit with gas in a quasi-continuous manner, and the fuel then passes into the storage container in which a constant filling level is reached over time, so that the fuel is guided from said storage container in a regular, trouble-free and pressurised manner to the burner. At least two sluice containers are transferred to at least one storage container by means of pneumatic dense-flow guide with solid material thicknesses of at least 100 kg/m³ and below a differential pressure of at least 0.5 bar, such that the device parts can be arranged at the same geodetic heights or at different geodetic heights enabling the system to be have a compact and flexible structure. The invention also relates to a method for the continuous and regular supply of finely comminuted fuel in a coal gasification reactor.

IPC 8 full level

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