

Title (en)

METHOD FOR THERMOCHEMICALLY GASIFYING SOLID FUELS

Title (de)

VERFAHREN ZUM THERMOCHEMISCHEN VERGASEN FESTER BRENNSTOFFE

Title (fr)

PROCÉDÉ POUR LA GAZÉIFICATION THERMOCHIMIQUE DE COMBUSTIBLES SOLIDES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010046222A2] The invention relates to a single-step method for thermochemically gasifying solid fuels (8) according to the principle of rising cocurrent gasification, wherein a fuel (8) is fed to a gasification chamber (3) against the force of gravity, a gasification medium (16) is added to the fuel in cocurrent flow, and a resulting product gas (14) is discharged in cocurrent flow. The fuel (8) is continuously fed to the gasification chamber (3), and the gasification medium (16) is fed from below through the fed fuel (8) to an oxidation zone (10) formed as a layer. The amount of the gasification medium (16) fed is adjusted by a control unit (15) in such a way that a stationary fluidized bed (17) is formed in a reduction zone (11) above the oxidation zone (10). In a corresponding gasifier (1), the fuel feed (2) is designed for continuous or quasi-continuous fuel supply, and the feed (6) for the gasification medium (16) is arranged below reaction zones (9, 10, 11) formed as layers in the gasification chamber (3). The fuel (8) forms a distributor floor for the gasification medium (16) in order to achieve a fluidized bed (17).

IPC 8 full level

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