

Title (en)

PROCESS AND APPARATUS FOR PRODUCING FUEL GAS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BRENNGASHERSTELLUNG

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE PRODUIRE DU GAZ COMBUSTIBLE

Publication

EP 0850289 A1 19980701 (DE)

Application

EP 96942977 A 19960626

Priority

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Abstract (en)

[origin: WO9701618A1] The invention concerns a process and apparatus for gasifying carbon-containing products, in particular waste and residues conditioned or processed in a suitable way. Gasification takes place in a mixed flow composed of a counter flow, direct flow and transverse flow. A portion of the gasifying agent is introduced through an inclined grate in the form of a step grate and thrust grating and ash is removed at the bottom end of the grate. Fuel gas is drawn off above the upper level of the grate on the side opposite the lateral feed of the gasifying agent. The gasification apparatus is enclosed in a double-layer insulating/cooling system in which air is used as the insulator and coolant. The gasification process is regulated by the temperature profile of the gasification apparatus, the position of the principal gasification zone is adjusted by ash discharge, the gasification temperature is regulated by the flow of gasifying agent and the output is regulated by the width of the gasification zone. The fuel gas produced is used preferably for generating electricity in a work machine. Exhaust gases are purified preferably with the aid of an active coke filter.

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