

Title (en)

DEVICE AND METHOD FOR THE ELECTROTHERMAL-CHEMICAL GASIFICATION OF BIOMASS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ELEKTRO-THERMO-CHEMISCHEN VERGASUNG VON BIOMASSE

Title (fr)

DISPOSITIF ET PROCÉDÉ DE GAZÉIFICATION ÉLECTRO-THERMO-CHIMIQUE DE BIOMASSE

Publication

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Application

EP 09741777 A 20090311

Priority

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Abstract (en)

[origin: WO2009135558A2] The invention relates to a device for extracting fuels from biomass while adding electrical energy, comprising the following components: a gasifier (33) for gasifying the biomass while adding electrical energy to a gas mixture, a reformer (35) for reforming the gas mixture obtained from the gasification, a gas scrubber (38) for scrubbing the reformed gas mixture, a catalyst (39) for carrying out a catalytic reaction for obtaining a reaction mixture from the scrubbed gas mixture, and a separator (40) for separating the fuel from the reaction mixture, the device further comprising devices for supplying hydrogen for hydrogenating the biomass or the gas mixture obtained from gasification and representing a closed system having a uniform internal pressure in an operating state.

IPC 8 full level

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