

Title (en)

CATALYTIC SUPERCRITICAL GASIFICATION OF WET BIOMASS

Title (de)

KATALYTISCHE SUPERKRITISCHE VERGASUNG VON FEUCHTER BIOMASSE

Title (fr)

GAZEIFICATION SUPERCRITIQUE CATALYTIQUE DE BIOMASSES MOUILLEES

Publication

EP 0820497 A1 19980128 (EN)

Application

EP 96910689 A 19960328

Priority

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Abstract (en)

[origin: WO9630464A1] A method for catalytically decomposing organic matter in a reaction medium is presented. Virtually complete gasification is achieved in relatively short periods of time. A hydrogen-rich gas may be formed from feedstocks (12) that include wet biomass, such as water hyacinth or algae, or organic waste or mixtures of biomass and organic waste. The reaction is catalyzed by a carbon-containing catalyst (22). The reaction medium may include supercritical water and is substantially oxygen-free. The carbon-containing catalyst (22) is stable in the environment of a supercritical water medium and maintains activity over long periods of time. Suitable carbon-containing catalysts are activated carbons or charcoals. Reaction products (26) are substantially free of tars or chars.

IPC 1-7

C10J 3/00

IPC 8 full level

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CPC (source: EP KR)

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