

Title (en)

CO-PRODUCING HYDROGEN AND POWER BY BIOMASS GASIFICATION

Title (de)

GLEICHZEITIGE HERSTELLUNG VON WASSERSTOFF UND ENERGIE DURCH BIOMASSEVERGASUNG

Title (fr)

PRODUCTION D'HYDROGENE ET DE PUISSANCE PAR GAZEIFICATION DE BIOMASSE

Publication

EP 1651561 A2 20060503 (EN)

Application

EP 04752507 A 20040517

Priority

- US 2004015504 W 20040517
- US 60910203 A 20030630

Abstract (en)

[origin: US2004265158A1] A method for co-producing hydrogen and electrical power comprises utilizing an intermittent renewable energy source to generate energy for producing hydrogen and oxygen and subsequently transferring at least a portion of the energy to a production system to produce the hydrogen and the oxygen. The current technique further comprises channeling at least a portion of the hydrogen to a hydrogen-delivery system configured to deliver the hydrogen from the hydrogen-delivery system to at least one of a power generation system or a hydrogen-storage system and channeling at least a portion of the oxygen to an oxygen delivery system configured to deliver the oxygen from the oxygen delivery system to a biomass gasification system that produces a synthesis gas by partial oxidation of a biomass feedstock. Further, this technique includes channeling at least a portion of the synthesis gas to the power generation system to produce electrical power therefrom.

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2005005312A2

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