

Title (en)  
PRODUCING ENERGY FROM BIOLOGICAL MATERIAL

Title (de)  
ENERGIEERZEUGUNG AUS BIOLOGISCHEM MATERIAL

Title (fr)  
PRODUCTION D'ÉNERGIE À PARTIR DE MATÉRIEL BIOLOGIQUE

Publication  
**EP 2171073 A2 20100407 (EN)**

Application  
**EP 08763703 A 20080710**

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- US 6404308 P 20080212

Abstract (en)  
[origin: WO2009010959A2] Described are methods and systems for producing synthesis gas. In some embodiments, the method includes microbiologically converting biological material to form methane and CO<sub>2</sub>; and reacting methane and CO<sub>2</sub> formed in (a) with water and metal to form synthesis gas. Optionally, the method also includes cutting vegetation; fermenting the vegetation to form biogas comprising methane and CO<sub>2</sub>; and reacting the biogas with water and metal to form synthesis gas and metal oxide. In some embodiments of the invention, reacted metal is regenerated from metal oxide produced in the reaction. In some embodiments the regeneration comprises reacting the oxide in a bath of boiling zinc.

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