

Title (en)

SYSTEM AND METHOD FOR RENEWABLE RESOURCE PRODUCTION, FOR EXAMPLE, HYDROGEN PRODUCTION BY MICROBIAL ELECTROLYSIS, FERMENTATION, AND/OR PHOTOSYNTHESIS

Title (de)

SYSTEM UND VERFAHREN ZUR HERSTELLUNG ERNEUERBARER RESSOURCEN, Z. B. VON WASSERSTOFF DURCH MIKROBIELLE ELEKTROLYSE, FERMENTIERUNG UND/ODER PHOTOSYNTHESE

Title (fr)

SYSTÈME ET PROCÉDÉ DE PRODUCTION DE RESSOURCES RENOUVELABLES, PAR EXEMPLE, PRODUCTION D'HYDROGÈNE PAR ÉLECTROLYSE MICROBIENNE, FERMENTATION, ET/OU PHOTOSYNTÈSE

Publication

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Application

EP 11742998 A 20110214

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Abstract (en)

[origin: WO2011100732A2] System and method of renewable and carbon neutral hydrogen production by microbial electrolysis, fermentation and photosynthesis with, for example, an electrode constructed from an architectural construct having graphene layers configured to isolate the produced hydrogen. The electrode constructed from the architectural construct facilitates transfer of hydrogenase and provides isolation of hydrogen to enable improved electrode efficiency, separation efficiency, and rate of hydrogen production. The architectural construct may also serve as a superior electron conductor and provide catalytic functions along with presenting various types of hydrogenase and/or other enzymes.

IPC 8 full level

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CPC (source: EP)

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