

Title (en)
A HYBRID ENERGY CONVERSION SYSTEM AND PROCESSES

Title (de)
HYBRIDENERGIEUMWANDLUNGSSYSTEM UND VERFAHREN

Title (fr)
SYSTEME ET PROCEDES HYBRIDES DE CONVERSION D ENERGIE

Publication
EP 1973840 A2 20081001 (EN)

Application
EP 07718204 A 20070117

Priority

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Abstract (en)
[origin: WO2007084539A2] Disclosed are flexible hybrid conversion systems that can be used with a wide spectrum of resources and feedstock. The disclosed systems can be sufficiently versatile to provide many added value products including clean energy, synthetic fuels and chemical products. Processes and system disclosed herein can produce, for example, shaft power and/or electricity from the expansion of species change of hot, hydrogen-laden syngas produced by gasification or steam reforming of inferior feedstock such as coal, bitumen, tar from sands and wastes, including biomass, municipal solid waste (MSW) sewage sludge and certain industrial wastes. This disclosure also teaches innovative system thermal integration methods of endothermic and exothermic processes and reaction enhancement approaches for the economic, clean and flexible production of synthetic gaseous and liquid fuels as well as chemicals.

IPC 8 full level
C01B 3/24 (2006.01)

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