

Title (en)

SYSTEMS AND METHODS OF CONVERTING FUEL

Title (de)

SYSTEME UND VERFAHREN ZUM UMWANDELN VON KRAFTSTOFF

Title (fr)

SYSTÈMES ET PROCÉDÉS DE CONVERSION DE COMBUSTIBLE

Publication

EP 1973992 A2 20081001 (EN)

Application

EP 07716591 A 20070112

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Abstract (en)

[origin: WO2007082089A2] Systems and methods for converting fuel are provided wherein the system comprises at least reactors configured to conduct oxidation-reduction reactions. The first reactor comprises a plurality of ceramic composite particles, wherein the ceramic composite particles comprises at least one metal oxide disposed on a support. The first reactor is configured to reduce the least one metal oxide with a fuel to produce a reduced metal or a reduced metal oxide. The second reactor is configured to oxidize the reduced metal or reduced metal oxide to produce a metal oxide intermediate. The system may also comprise a third reactor configured to oxidize the metal oxide intermediate to regenerate the metal oxide of the ceramic composite particles.

IPC 8 full level

C10G 1/00 (2006.01)

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