

Title (en)

COUPLED THERMOCHEMICAL REACTORS AND ENGINES, AND ASSOCIATED SYSTEMS AND METHODS

Title (de)

GEKOPPELTE THERMOCHEMISCHE REAKTOREN UND MOTOREN SOWIE ENTSPRECHENDE SYSTEME UND VERFAHREN

Title (fr)

REACTEURS ET MOTEURS THERMOCHIMIQUES COUPLES, ET SYSTEMES ET PROCEDES ASSOCIES

Publication

EP 2534362 A2 20121219 (EN)

Application

EP 11742994 A 20110214

Priority

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- US 2011024808 W 20110214

Abstract (en)

[origin: WO2011100728A2] Coupled thermal chemical reactors and engines, and associated systems and methods. A system in accordance with a particular embodiment includes a reactor vessel having a reaction zone, a hydrogen donor source coupled in fluid communication with the reaction zone, and an engine having a combustion region. The system can further include a transfer passage coupled between the combustion region and the reaction zone to transfer a reactant and/or radiate energy to the reaction zone. The system can further include a product passage coupled between the reaction zone and the combustion region of the engine to deliver to the combustion region at least a portion of a constituent removed from the reaction zone.

IPC 8 full level

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Citation (search report)

See references of WO 2011100728A2

Cited by

US9540578B2; WO2011100660A1

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