

Title (en)

SOLID/HEAT-TRANSPORT GAS REACTOR INCLUDING GAS DIFFUSERS WITH REDUCED RISK OF CLOGGING

Title (de)

FESTSTOFF-/WÄRMETRANSPORTGASREAKTOR MIT GASDIFFUSOREN MIT VERMINDERTEM VERSTOPFUNGSRISIKO

Title (fr)

REACTEUR SOLIDE / GAZ CALOPORTEUR COMPRENANT DES DIFFUSEURS DE GAZ A RISQUES D'OBTURATION REDUITS

Publication

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Application

EP 12717301 A 20120427

Priority

- FR 1153781 A 20110503
- EP 2012057732 W 20120427

Abstract (en)

[origin: WO2012150185A1] The invention relates to a solid/heat-transport gas reactor including stacked modules (1), characterized in that each module includes diffusers (20), each of which have an upper portion for supporting the solid reactant and a gas-diffusion portion under the upper supporting portion, said solid/heat-transport gas reactor also including a side gas-distributing channel (12) and a side gas-collecting channel (14). Each module includes a double wall (2) within which the gas flows before entering into said diffusers. Two directly consecutive modules in the stack define a holding cavity for receiving a solid reactant at least partially supported by said diffusers arranged in said cavity, wherein the side gas-distributing channels (12) of the stacked modules together form a vertical distributor (112) feeding gas into each of the spaces defined between the double walls (2), and characterized in that the side gas-collecting channels (14) of the stacked modules together form a vertical collector (114) for collecting the gas from each of the holding cavities.

IPC 8 full level

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Citation (search report)

See references of WO 2012150185A1

Citation (examination)

US 2204447 A 19400611 - WALTER SAMANS

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