

Title (en)  
REACTOR AND PROCESS FOR STEAM REFORMING

Title (de)  
REAKTOR UND VERFAHREN ZUR DAMPFREFORMIERUNG

Title (fr)  
REACTEUR ET PROCEDE DE REFORMAGE A LA VAPEUR D'EAU

Publication  
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Application  
**EP 05798472 A 20050919**

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Abstract (en)  
[origin: WO2006034103A1] A hydrogen producing reactor is disclosed. The hydrogen producing reactor has a reaction chamber containing a catalyst bed adapted to produce reaction products containing hydrogen from a hydrogen-producing feedstock. The reaction chamber also includes a hydrogen-selective, hydrogen-permeable gas separation module adapted to receive the reaction products from the catalyst bed and to separate a product stream containing hydrogen from the reaction products. The gas separation module comprises a porous substrate, an intermediate layer located at the porous substrate, and a hydrogen-selective membrane overlying the intermediate layer. The intermediate layer comprises particles and a binder metal, where the binder metal is distributed through out the intermediate layer. A steam reforming process is also disclosed using the disclosed reactor.

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