

Title (en)  
HIGH-TEMPERATURE SOLID ELECTROLYTE FUEL CELL COMPRISING A COMPOSITE OF NANOPOROUS THIN-FILM ELECTRODES AND A STRUCTURED ELECTROLYTE

Title (de)  
HOCHTEMPERATUR-FESTELEKTROLYT- BRENNSTOFFZELLE UMFASSEND EINEN VERBUND AUS NANOPORÖSEN DÜNNSCHICHTELEKTRODEN UND EINEM STRUKTURIERTEM ELEKTROLYT

Title (fr)  
PILE A COMBUSTIBLE A ELECTROLYTE SOLIDE A HAUTE TEMPERATURE, COMPRENANT UN COMPOSITE CONSTITUE D'ELECTRODES EN COUCHE MINCE NANOPOREUSES ET D'UN ELECTROLYTE STRUCTURE

Publication  
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Application  
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Abstract (en)  
[origin: WO03092089A2] The invention relates to a novel high-temperature solid electrolyte fuel cell comprising an electrolyte layer between two electrode layers, obtained by a method comprising the steps: (i) application of electrolyte particles in a screen printing paste to an unsintered electrolyte substrate and sintering of the resultant structure; (ii) deposition of a nanoporous electrode thin-film by means of a sol-gel process or an MOD process on the structure obtained in step (i) and thermal treatment of the structure that has been coated in this manner. The fuel cell has an optional electrolyte boundary layer on the structured screen-printed electrolyte layer, said boundary layer being applied by means of an MOD process.

IPC 1-7  
**H01M 8/12**

IPC 8 full level  
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