

Title (en)
TUBULAR HIGH-TEMPERATURE FUEL CELL, METHOD FOR THE MANUFACTURE THEREOF AND FUEL CELL SYSTEM COMPRISING THE SAME

Title (de)
TUBULARE HOCHTEMPERATUR-BRENNSTOFFZELLE, VERFAHREN ZU DEREN HERSTELLUNG UND EINE SOLCHE ENTHALTENDE BRENNSTOFFZELLENANLAGE

Title (fr)
PILE À COMBUSTIBLE TUBULAIRE À HAUTE TEMPÉRATURE, PROCÉDÉ POUR SA FABRICATION ET SYSTÈME DE PILES À COMBUSTIBLE COMPRENANT UNE TELLE PILE À COMBUSTIBLE

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Application
EP 09783291 A 20090922

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Abstract (en)
[origin: WO2010037670A1] Fuel cells known from the prior art include full-ceramic high-temperature fuel cells in particular, wherein a cathode-side ceramic substrate is the support for the solid electrolytes and the electrodes. According to the invention, a metal substrate (10, 20, 40, 50) is provided as a support for the functional layers, wherein the metal substrate is porous for allowing reactants and reaction products to flow therethrough. A fuel cell system constructed of said fuel cells is suitable for operation at lower operating temperatures, in particular at temperatures of between 500 and 700 °C. The novel fuel cells can be manufactured using comparatively simple powder-metallurgical methods.

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Citation (search report)
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