

Title (en)
SOFC-PILE

Title (de)
SOFC-STAPEL

Title (fr)
EMPILEMENT DE PILES A COMBUSTIBLE A OXYDE SOLIDE

Publication
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Application
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Abstract (en)
[origin: CA2608813A1] The invention relates to a SOFC pile comprising bipolar plates (5) for connecting electrodes (3, 4) of two adjacent fuel cells having a ceramic electrolyte, wherein each bipolar plate (5) comprises a respective base plate (6) to which one or several contact elements (7) are connected on one or two sides thereof, the bipolar plates (5) are characterised in that the base plate (6) is selected such that it is rigid and gas-tight and the contact elements (7) are elastically or plastically deformable, placed and embodied in such a way that they are gas-permeable in a position perpendicular to the base plate (6) plane. The bipolar plates (5) stabilise the SOFC pile and ensure the secure contacting of the electrode (3, 4), wherein the production tolerances of the electrodes (3, 4) and displacements between the pile components are compensated by thermal expansion or by a creeping process.

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