

Title (en)
THERMOELECTRIC GENERATOR MODULE, METAL-CERAMIC SUBSTRATE AND METHOD FOR PRODUCING SUCH A METAL-CERAMIC SUBSTRATE

Title (de)
THERMOELEKTRISCHES GENERATORMODUL, METALL-KERAMIK-SUBSTRAT SOWIE VERFAHREN ZUM HERSTELLEN EINES DERARTIGEN METALL-KERAMIK-SUBSTRATES

Title (fr)
MODULE GÉNÉRATEUR THERMOÉLECTRIQUE, SUBSTRAT MÉTAL-CÉRAMIQUE, AINSI QUE PROCÉDÉ DE FABRICATION D'UN SUBSTRAT MÉTAL-CÉRAMIQUE DUDIT TYPE

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Abstract (en)
[origin: WO2013113311A2] The invention relates to a thermoelectric generator module with a hot zone (1a) and a cold zone (1b) comprising at least a first metal-ceramic substrate (2), which has a first ceramic layer (6) and at least one structured first metallization (4) applied to the first ceramic layer (6) and is assigned to the hot zone, and at least a second metal-ceramic substrate (4), which has a second ceramic layer (7) and at least one structured second metallization (5) applied to the second ceramic layer and is assigned to the cold zone (1b), and also a number of thermoelectric generator components (N, P) located between the first and second structured metallizations (4, 5) of the metal-ceramic substrates (2, 3). Particularly advantageously, the first metal-ceramic substrate (2), assigned to the hot zone (1a), has at least one layer of steel or high-grade steel (8), wherein the first ceramic layer (6) is arranged between the first structured metallization (4) and the at least one layer of steel or high-grade steel (8). The invention also relates to an associated metal-ceramic substrate and to a method for producing it.

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