

Title (en)

MATERIALS AND PARTS THAT CAN WITHSTAND HIGH TEMPERATURES IN AN OXIDISING MEDIUM, AND METHOD FOR MANUFACTURING SAME

Title (de)

MATERIALIEN UND TEILE MIT BESTÄNDIGKEIT GEGENÜBER HOHEN TEMPERATUREN IN EINEM OXIDIERENDEN MEDIUM UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATERIAUX ET PIECES RESISTANTS A HAUTE TEMPERATURE EN MILIEU OXYDANT ET LEUR PROCEDE DE FABRICATION

Publication

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Application

EP 11805094 A 20111205

Priority

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Abstract (en)

[origin: WO2012076797A1] The invention relates to a refractory material that can withstand high temperatures in an oxidising medium, which contains at least: a first component which is hafnium or a non-oxide compound of hafnium, or a mix of at least two metals and/or compounds selected from hafnium or a non-oxide compound of hafnium; a second component which is boron or a non-oxide compound of boron, or a mix of boron and a non-oxide compound of boron; a third component which is a rare earth element (RE) or a non-oxide compound of the rare earth element (RE), or a mix of the rare earth element (RE) and a non-oxide compound of the rare earth element (RE), wherein RE is selected from among scandium, yttrium, and the lanthanides. The material does not contain any silicon or silicon compounds.

IPC 8 full level

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See references of WO 2012076797A1

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US 4259119 A 19810331 - WATANABE TADAHICO, et al

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