

Title (en)

A COATING SYSTEM FOR A COMPONENT OF A TURBOMACHINE AND A METHOD FOR GENERATING A COATING SYSTEM

Title (de)

BESCHICHTUNGSSYSTEM FÜR KOMPONENTEN EINER TURBOMASCHINE UND VERFAHREN ZUM ERZEUGEN EINES BESCHICHTUNGSSYSTEMS

Title (fr)

SYSTÈME DE REVÊTEMENT POUR COMPOSANT D'UNE TURBOMACHINE ET PROCÉDÉ DE GÉNÉRATION D'UN SYSTÈME DE REVÊTEMENT

Publication

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Application

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Priority

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Abstract (en)

[origin: EP2881491A1] A turbo machine coating system for coating a portion of a component of a turbo machine, comprises, in addition to the standard bond coat layer to be arranged on the portion of the component, a first ceramic coating layer to be arranged over the portion to be coated and on the bond coat layer and an abradable, second ceramic coating layer, wherein the second ceramic coating layer is arranged on the first ceramic coating layer. Therein, the abradable, second ceramic coating layer is a porous coating layer comprising full-stabilized Yttrium Zirconium oxide. Thus, the second ceramic coating layer comprises the attributes of an abrasion layer. I.e. the second ceramic coating layer is supposed to wear, for example during operation of the turbomachine.

IPC 8 full level

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