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**(71) Applicant(s):**

SIEMENS AKTIENGESELLSCHAFT [DE/DE]; Werner-von-Siemens-Straße 1 80333 München (DE) *(for all designated states)*

**(72) Inventor(s):**

TAN, Winnie; 3810 Stokes Avenue Charlotte, North Carolina 28210 (US)

HUANG, Ke; 14015 Portrush Drive Orlando, Florida 32828 (US)

FLORES RENTERIA, Arturo; Dickhardtstraße 27 12161 Berlin (DE)

VAN DER LAAG, Niels; Albert-Rosshaupter-Straße 3B 81369 München (DE)

PHAM, Gia Khanh; Blumenweg 44 85579 Neubiberg (DE)

SUBRAMANIAN, Ramesh; 2936 Bayhead Run Oviedo, Florida 32765 (US)

**(74) Agent(s):**

SCOTT, Mark W.; Siemens Corporation- Intellectual Property Dept. 3501 Quadrangle Blvd. Ste. 230 Orlando, Florida 32817 (US)

**(54) Title (EN):** INTERMEDIATE LAYER FOR ADDED THERMAL PROTECTION AND ADHESION OF A THERMAL BARRIER LAYER TO A CERAMIC MATRIX COMPOSITE SUBSTRATE

**(54) Title (FR):** COUCHE INTERMÉDIAIRE POUR UNE PROTECTION THERMIQUE SUPPLÉMENTAIRE ET ADHÉSION D'UNE COUCHE BARRIÈRE THERMIQUE À UN SUBSTRAT COMPOSITE À MATRICE CÉRAMIQUE

**(57) Abstract:**

**(EN):** The present invention is directed to a component (10) including a substrate (12) of a ceramic matrix composite material (14); a thermal barrier coating layer (18) disposed over the substrate (12); and an intermediate thermal protection and 5 adhesion layer (16) between the thermal barrier coating layer (18) and the substrate (12). The intermediate layer (16) is effective to adhere the thermal barrier coating layer (18) to the substrate (12) and provide a degree of added thermal protection to the substrate (12) in the event of spallation of the thermal barrier coating layer (18).

**(FR):** La présente invention concerne un composant (10) comprenant un substrat (12) d'un matériau composite à matrice céramique (14) ; une couche de revêtement de barrière thermique (18) disposée sur le substrat (12) ; et une couche intermédiaire de protection thermique et une couche d'adhésion (16) entre la couche de revêtement de barrière thermique (18) et le substrat (12). La couche intermédiaire (16) est efficace pour faire adhérer la couche de revêtement de barrière thermique (18) au substrat (12) et fournir un degré de protection thermique supplémentaire au substrat (12) en cas de spallation de la couche de revêtement de barrière thermique (18).

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