

Title (en)
Device for coating components

Title (de)
Verfahren zum Beschichten von Bauteilen

Title (fr)
Procédé destiné à revêtir des composants

Publication
EP 2062997 A2 20090527 (DE)

Application
EP 08169613 A 20081121

Priority
DE 102007056454 A 20071123

Abstract (en)
The coating method for repairing the area of damaged sections of components of a gas turbine, comprises applying a coating material for forming a coating on the components through cold kinetic compacting and/or kinetic cold gas spraying process and simultaneously applying a solder material and/or a flowable alloy material on the component. The formed coating and the component are subjected to a thermal treatment. The coating is applied at a gas temperature of 300-95[deg] C, a pressure of 30-40 bar and a speed of 500-1500 m/second. The coating method for repairing the area of damaged sections of components of a gas turbine, comprises applying a coating material for forming a coating on the components through cold kinetic compacting and/or kinetic cold gas spraying process and simultaneously applying a solder material and/or a flowable alloy material on the component. The formed coating and the component are subjected to a thermal treatment. The coating is applied at a gas temperature of 300-95[deg] C, a pressure of 30-40 bar and a speed of 500-1500 m/second. Particles from the coating material with a particle size of 5-80 μ m and particles of the solder material and/or the alloy material are applied on the component via a carrier gas.

Abstract (de)
Die Erfindung betrifft ein Verfahren zum Beschichten von Bauteilen einer Turbomaschine, insbesondere einer Gasturbine, wobei ein Beschichtungswerkstoff zur Ausbildung der Beschichtung über Kalt-Kinetisches-Kompaktieren bzw. kinetisches Kaltgasspritzen auf das Bauteil aufgebracht wird. Erfindungsgemäß wird zusammen mit dem Beschichtungswerkstoff ein Lotwerkstoff und/oder ein selbstfließender Legierungswerkstoff auf das Bauteil aufgebracht.

IPC 8 full level
C23C 24/04 (2006.01); **C23C 24/08** (2006.01); **C23C 24/10** (2006.01)

CPC (source: EP)
C23C 24/04 (2013.01)

Cited by
CN115213582A; CN110331395A; CN104846367A; EP2503026A1; CN103042338A; US9393622B2; WO2012163321A1

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