

Title (en)  
Device for coating components

Title (de)  
Verfahren zum Beschichten von Bauteilen

Title (fr)  
Procédé destiné à revêtir des composants

Publication  
**EP 2062997 A3 20110518 (DE)**

Application  
**EP 08169613 A 20081121**

Priority  
DE 102007056454 A 20071123

Abstract (en)  
[origin: EP2062997A2] 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  $\mu$ m and particles of the solder material and/or the alloy material are applied on the component via a carrier gas.

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)

Citation (search report)

- [XY] US 2006093736 A1 20060504 - RAYBOULD DEREK [US], et al
- [Y] EP 0168868 A1 19860122 - BBC BROWN BOVERI & CIE [CH]
- [A] EP 1634976 A1 20060315 - HONEYWELL INT INC [US]
- [A] US 2003091755 A1 20030515 - KASHIRIN ALEKSANDR IVANOVICH [RU], et al
- [A] DE 10045783 A1 20011122 - AMI DODUCO GMBH [DE]
- [A] EP 0518049 B1 19950125 - DEGUSSA [DE]

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

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2062997 A2 20090527; EP 2062997 A3 20110518**; DE 102007056454 A1 20090528

DOCDB simple family (application)  
**EP 08169613 A 20081121**; DE 102007056454 A 20071123