

Title (en)

SYSTEMS AND METHODS FOR REMOVAL OF DIFFUSION COATING FROM AIRFOILS

Title (de)

SYSTEME UND VERFAHREN ZUR ENTFERNUNG VON DIFFUSIONS BESCHICHTUNG VON SCHAUFELBLÄTTERN

Title (fr)

SYSTÈMES ET PROCÉDÉS D'ÉLIMINATION DE REVÊTEMENT DE DIFFUSION À PARTIR D'AUBAGES

Publication

EP 4056738 A3 20221221 (EN)

Application

EP 22159930 A 20220303

Priority

US 202117200429 A 20210312

Abstract (en)

A method of removing an aluminide diffusion coating from a gas turbine engine component (192, 194, 196, 198) having a nickel alloy base material may comprise: disposing the gas turbine engine component (192, 194, 196, 198) in a solution (206), the solution (206) including an acid between 5% and 15% vol./vol. and water between 85% and 95% vol./vol.; placing the gas turbine engine component (192, 194, 196, 198) in electrical contact with a graphite plate (204); and removing the aluminide diffusion coating from the gas turbine engine component (192, 194, 196, 198) in response to placing the gas turbine engine component (192, 194, 196, 198) in electrical contact with the graphite plate (204) and disposing the gas turbine engine component in the solution (206).

IPC 8 full level

C25F 5/00 (2006.01); **C23C 10/60** (2006.01); **C23F 1/08** (2006.01); **C23F 1/44** (2006.01)

CPC (source: EP US)

C23C 10/60 (2013.01 - EP); **C25F 3/02** (2013.01 - US); **C25F 5/00** (2013.01 - EP); **C25F 7/00** (2013.01 - US); **C23F 1/44** (2013.01 - EP)

Citation (search report)

- [X] US 6176999 B1 20010123 - JAWOROWSKI MARK [US], et al
- [I] US 2010072072 A1 20100325 - BECKEL DANIEL [CH], et al
- [A] US 4886552 A 19891212 - JAWOROWSKI MARK R [US], et al
- [A] EP 1136593 A1 20010926 - GE AVIAT SERVICES OPERATION PT [SG]

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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