

Title (en)  
LOCALIZED REPAIR OF SUPERALLOY COMPONENT

Title (de)  
LOKALEN REPARATUR VON SUPERLEGIERUNGSKOMPONENTEN

Title (fr)  
RÉPARATION LOCALISÉE D'UN COMPOSANT DE SUPERALLIAGE

Publication  
**EP 2950974 A1 20151209 (EN)**

Application  
**EP 14704269 A 20140131**

Priority  
• US 201313755098 A 20130131  
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• US 2014014123 W 20140131

Abstract (en)  
[origin: WO2014121060A1] A method comprising: removing a gas turbine vane (140) from service; removing a damaged portion (144) of the component to reveal a repair surface; covering the repair surface with a powdered superalloy material; applying an energy beam to the powder to melt selected portions of the powder to form a patterned first layer of superalloy material (116') joined to the repair surface; covering at least a portion of the first layer of superalloy material with an additional amount of powdered superalloy material; applying the energy beam to the additional amount of powdered superalloy material to form a second layer of superalloy material joined to the first layer; repeating the covering and applying steps until layers of superalloy material form a new portion of the component to replace the damaged portion; and returning the vane (140) to service. The damaged portion may belong to a honeycomb structure (148).

IPC 8 full level  
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Citation (search report)  
See references of WO 2014121060A1

Cited by  
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