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METHOD FOR REPAIRING AN APERTURED GAS TURBINE COMPONENT

ABSTRACT OF THE DISCLOSURE

A method for repairing defects in a gas turbine component that comprises a substrate and an existing coating on the substrate. The article includes cooling holes having a predetermined air flow requirement and an outer shaped portion and an inner metering portion. The method comprises removing the existing coating and recoating the surface of the article with a nonoriginal coating. After the nonoriginal coating is applied onto the component, the cooling holes that meet a predetermined inspection criteria are reworked to remove the excess nonoriginal coating deposited in the outer shaped portion of the cooling holes. The reworking is done by receiving an electrode, having only a shaped portion with a preselected shape, in the outer shaped portion of the cooling holes thus restoring the cooling holes to the predetermined air flow requirement.