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REPAIR OF SINGLE CRYSTAL NICKEL BASED SUPERALLOY ARTICLEABSTRACT OF THE DISCLOSURE

The present invention relates to a method for repairing components formed from a single crystal nickel based superalloy. The method comprises the steps of applying a repair alloy to at least one portion of a component formed from the single crystal nickel based superalloy and heating the component with the repair alloy thereon to a temperature that avoids recrystallization and repair zone incipient melting of the single crystal nickel based superalloy. Following the heating step, the component is preferably rapidly cooled and subjected to an aging treatment.

Figure 1

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