

LOW TEMPERATURE DIFFUSION BRAZE REPAIR OF SINGLE CRYSTAL COMPONENTS

ABSTRACT OF THE DISCLOSURE

The present invention is directed to a process for repairing cracks in a turbine engine component. The process comprises the steps of providing a component, preferably formed from a single crystal nickel based material, with at least one crack, applying a repair alloy composition containing a single crystal nickel based alloy, a first nickel based braze alloy and a second nickel based braze alloy to the crack(s), and subjecting the component with the applied repair alloy composition to a thermal cycle to diffuse the repair alloy composition into the crack(s).

FIGURE 1