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BUILT-UP GAS TURBINE COMPONENT AND ITS FABRICATION

ABSTRACT

A built-up gas turbine component (80) is prepared by providing a gas turbine component having a component surface and being made of a component base metal having a component base metal composition. A buildup tape (84) is supplied having a net metallic buildup composition different from the component base metal composition. The buildup tape includes a first metallic constituent having a first melting point, and a second metallic constituent having a second melting point. The first metallic constituent and second metallic constituent together have the net metallic buildup composition. A nonmetallic binder binds together the first metallic constituent and the second metallic constituent. The buildup tape (84) is applied to the component surface and heated to a brazing temperature greater than the first melting point and less than the second melting point. The first metallic constituent melts and fuses the first metallic constituent and the second metallic constituent to the component surface as a buildup deposit on the built-up gas turbine component.

Fig. 1

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