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METHOD OF REMOVING HOT CORROSION PRODUCTS FROM
A DIFFUSION ALUMINIDE COATING

ABSTRACT OF THE DISCLOSURE

A method of removing hot corrosion products from the surface of a component exposed to corrosive conditions at elevated temperatures, as is the case with turbine, combustor or augmentor components of gas turbine engines. The method is particularly suited for the removal of hot corrosion products from components protected with a diffusion aluminide coating, either as an environmental coating or as a bond coat for a thermal barrier coating (TBC). The processing steps of the method include immersing the component in a heated liquid solution containing acetic acid, and then agitating the surfaces of the component while the component remains immersed in the solution. In this manner, hot corrosion products on the surfaces of the component are removed without damaging or removing the diffusion aluminide coating. As a result, regions of the component from which the hot corrosion products were removed can then be repaired by a suitable aluminizing process.