METHODS TO REMOVE AN EBC FROM A SUBSTRATE AND TO REPAIR A COATED COMPONENT

ABSTRACT

A method is provided for removing a bondcoat and an environmental barrier coating from a coated component. The method may include contacting the coated component with an etchant liquid comprising phosphoric acid, 5% by volume to 70% by volume of hydrogen fluoride, and a solvent. The hydrogen fluoride and the phosphoric acid react with a composition in the bondcoat. The bondcoat is positioned within the coated component between a silicon-containing substrate and the environmental barrier coating, and the bondcoat comprises mullite.

[Figure 1]