

CONTROLLED OXIDATION OF BOND COAT

ABSTRACT OF THE DISCLOSURE

5 A method of processing an article includes heating the article in an atmosphere substantially free of oxygen to an oxidation temperature within a predetermined temperature range. The article includes a substrate and a bond coat disposed on the substrate. A partial pressure of oxygen is then established within the atmosphere after heating to the oxidation temperature. At least a portion of the bond coat oxidizes in the partial pressure of oxygen at the oxidation temperature to form a
10 desired type of oxide to the substantial exclusion of forming other types of oxides. A ceramic coating is then deposited on the oxide.