

OXIDATION-RESISTANT COATINGS BONDED TO METAL

SUBSTRATES, AND RELATED ARTICLES AND PROCESSES

ABSTRACT OF THE DISCLOSURE

An article is described, which includes a metal-based substrate (12) and an oxidation-resistant coating (10) bonded to the substrate (12) by a bonding agent, such as a braze material. The oxidation-resistant coating (10) material is often an aluminide- or MCrAlX-type coating, and can be one which contains relatively high amounts of aluminum. The coating is often very smooth, for maximum aerodynamic efficiency. The oxidation-resistant coating (10) can be applied and bonded to the substrate (12) by a variety of methods, using slurries, braze tapes, or metal foils. Coating repair methods are also described.

Figure 1