

ARTICLE INCLUDING A SUBSTRATE WITH A
METALLIC COATING AND A PROTECTIVE COATING THEREON,
AND ITS PREPARATION AND USE IN COMPONENT RESTORATION

ABSTRACT OF THE DISCLOSURE

A coated article (20) has a metallic substrate (26) with a substrate composition, and a metallic coating (28) overlying and contacting the metallic substrate (26). The metallic coating (28) has a metallic-coating composition different from the substrate composition.

A protective coating (30) overlies and contacts the metallic coating (28). The protective coating (30) includes an aluminide layer (32) overlying and contacting the metallic coating (28), and optionally a thermal barrier coating (36) overlying and contacting the aluminide layer (32). This structure may be used to restore a key dimension of an article (20) that has previously been in service and to protect the article (20) as well.

Figure 4