

REPAIR OF HIGH PRESSURE TURBINE SHROUDS

ABSTRACT OF THE DISCLOSURE

A method for repairing the shroud surfaces of a gas turbine engine to provide corrosion and oxidation resistance of the shroud segments (10) while also restoring the dimensional integrity of the shroud segments (10). The method entails removing the oxidation and corrosion products from the shroud segment (10), removing preexisting coating materials, applying a material compatible with the shroud segment substrate material, machining the surface, applying a corrosion-resistant, oxidation-resistant and rub-compliant material to the shroud segment using a HVOF process, machining the shroud segment (10) to preselected dimensions and applying an aluminide coating for improved oxidation and corrosion resistance of the repaired surfaces.

Figure 1