

METHOD FOR SELECTIVE SURFACE PROTECTION OF A GAS TURBINE BLADE WHICH HAS PREVIOUSLY BEEN IN SERVICE

ABSTRACT

A gas turbine blade (20) which has previously been in service is protected by cleaning the gas turbine blade (20), and then first depositing a platinum first layer on the airfoil (22) and the platform (28) of the gas turbine blade (20). Thereafter, a platinum second layer is deposited over the platform (28) but not the airfoil (22). A platinum-aluminide protective coating is formed by depositing an aluminum-containing layer (80) overlying both the platform (28) and the airfoil (22) and interdiffusing the platinum and the aluminum.

Fig. 2