

# **METHOD OF ELECTRICAL DISCHARGE SURFACE REPAIR OF A VARIABLE VANE TRUNNION**

## **ABSTRACT OF THE DISCLOSURE**

5

A method of repairing a variable vane for a gas turbine engine includes the steps of positioning a trunnion of a variable vane within an electrical discharge machine environment, and connecting the trunnion as a first electrode through an electrical discharge machine power generator to a second electrode. The second  
10 electrode is formed of a hard metal coating. A spark is created between the trunnion and the second electrode such that material from the second electrode is deposited on an outer surface of said trunnion. Further, a variable vane having a trunnion reconditioned by this method is disclosed and claimed.

15

**Figure 1**