

ABSTRACT

TURBINE COMPONENT, GAS TURBINE ENGINE, PRODUCTION METHOD OF TURBINE
COMPONENT, SURFACE TREATMENT METHOD THEREOF, BLADE COMPONENT,
5 METAL COMPONENT AND STEAM TURBINE ENGINE

What disclosed is formation of a protective coating having
oxidation resistance and abrasiveness at a portion to be processed
10 of a component main body by employing an electrode composed of
a molded body molded from a mixed powder in which a powder of an
oxidation-resistant metal and a powder of a ceramic is mixed or
the molded body processed with a heat treatment, generating a
pulsing electric discharge between the electrode and the portion
15 to be processed of the component main body so that an electrode
material of the electrode and such carry out deposition, diffusion
and/or welding on the portion to be processed of the component
main body by energy of the electric discharge.

20 Figure 4