

REPAIR OF GAS TURBINE BLADE TIP WITHOUT RECOATING THE REPAIRED BLADE TIP

ABSTRACT OF THE DISCLOSURE

A damaged gas turbine blade (40) which has previously been in service, and which is made of a base metal, is furnished. Any damaged material is removed from the damaged blade tip (50). The damaged blade tip (50) is weld repaired with a nickel-base superalloy that is more resistant to oxidation resistance than is the base metal in the operating environment of the tip-repaired gas turbine blade (60). The method does not include any step of coating a lateral surface (80) of the repaired blade tip (62) with a non-ceramic coating after the step of weld repairing.

Fig. 4