

TURBINE NOZZLE SEGMENT AND METHOD OF REPAIRING SAME

ABSTRACT

A method is provided for repairing a turbine nozzle segment (10) having at least one vane (12) disposed between outer and inner bands. The method includes separating the inner band (16) from the nozzle segment (10), and joining the inner band (16) to a newly manufactured replacement casting (30) having an outer band and a vane (34). The replacement casting (30) includes an airfoil stub (44). The airfoil stub (44) is received in a recess formed in the inner band (16). Joining is completed by joining the airfoil stub (44) to the inner band (16). The replacement casting (30) may be modified from a newly manufactured singlet casting.

Fig. 7