

METHOD AND APPARATUS FOR INSPECTING DOVETAIL EDGEBREAK CONTOUR

ABSTRACT

A method and tooling for inspecting a contour of an edge of a cutout formed in a disk (200), each cutout fixedly receiving a turbine blade (220). A first device (12) receives the disk (200) containing the cutouts. A second device (14) has a sensor associated with the movement of an instrument, the first device (12) securing the disk (200) at a predetermined orientation to the sensor. The disk (200) is secured to the first device (12), the instrument being directed along the cutout defining a path substantially parallel to a surface of the contour, the instrument remaining in physical contact with the surface of the contour. The sensor transmits a signal associated with instrument movement to an algorithm to convert the signal to two-dimensional positions along the tangent path along the surface of the contour. The acceptability of the edge contour of the cutout is determined by comparing the two-dimensional positions to predetermined ranges of values.

FIG 1B