

ABSTRACT

AN APPARATUS AND A METHOD OF INSPECTING A TURBOMACHINE

5 An apparatus (69) for inspecting a turbomachine (10) comprises a plurality of
boroscopes (70), a device (90) to rotate the rotor (50) of the turbomachine (10) and a
processor (78) having reference measurements of the rotor blades (52) and/or
reference measurements between the rotor blades (52) and the boroscopes (70). A
boroscope (70) is inserted in an aperture (66,68) in a casing (60,62) upstream of the
blades (52) to view the leading edge (55) and a portion of one of the surfaces of each of
10 the blades (52) as the rotor (50) is rotated. A boroscope (70) is inserted in an aperture
(66,68) in the casing (60,62) downstream of the blades (52) to view the trailing edge
(57) and a portion of one of the surfaces of each of the blades (52) as the rotor (50) is
rotated. The boroscopes (70) supply the images of each of the blades (52) to the
processor (78). The processor (78) analyses the images of the blades (52) and uses
15 the reference measurements to determine the position and size of any defect on any of
the rotor blades (52).

(Fig 2)