

GAS TURBINE IN SITU INFLATABLE BLADDERS FOR ON-WING REPAIR

ABSTRACT OF THE DISCLOSURE

A method for forming an in situ temporary barrier within a gas turbine engine [10] is provided. The method can include installing a bladder [100] within the gas turbine engine [10], wherein the bladder [100] defines a bladder body [102], and inflating the bladder [100] with an inflating fluid such that the bladder body [102] forms a circumferential seal within the gas turbine engine [10]. The bladder body [102] can be positioned between a row of stator vanes [70, 80] and an annular array of rotating blades [68, 82] to form a circumferential seal therebetween. A second bladder [200] may be positioned circumferentially within the gas turbine engine.

[Fig. 1]