

GAS TURBINE IN SITU INFLATABLE BLADDERS FOR ON-WING REPAIR

ABSTRACT OF THE DISCLOSURE

Methods are provided for repairing a surface of a component (204) within a gas turbine engine (10). A first bladder (100) and a second bladder (200) can be installed (simultaneously or independently) within the gas turbine engine (10). The first bladder (100) and the second bladder (200) can then be inflated with an inflating fluid to form a first circumferential seal and a second circumferential seal to define an isolated area within the gas turbine engine (10). All the surfaces within the isolated area can then be coated with a masking layer (306). At least a portion of the masking layer (306) can then be removed to expose a working area, and a coating can be formed on the working area.

[Fig. 1]