

LARGE AREA REPAIR OF COMPOSITE AIRCRAFT

ABSTRACT

A randomly damaged area of a one-piece composite component of an aircraft is repaired according to a method herein. The damaged area covers skin and underlying stiffening substructure of the component. The method includes generating a design 5 of a customized composite replacement panel for replacing the damaged area. The design includes replacement skin and underlying co-cured replacement stiffening substructure. The method further includes fabricating the composite replacement panel according to the design.

Fig. 1