METHODS OF REPAIRING A CONTOURED COMPOSITE STRUCTURE AND MAKING A REPAIR TOOL

ABSTRACT

Disclosed herein is a method of repairing a contoured composite structure. The method includes applying a first facesheet, a core layer, and a second facesheet onto a contoured composite structure to form a repair tool. The method further includes removing the repair tool from the contoured surface of the contoured composite structure. After removing the repair tool from the contoured surface of the contoured composite structure, the method includes replacing a structural abnormality of a contoured composite structure with an uncured repair structure. The method also includes applying the repair tool onto the contoured composite structure such that the repair tool overlays the uncured repair structure. The method additionally includes curing the uncured repair structure when the repair tool is applied onto the contoured composite structure over the uncured repair structure.

Fig. 12