

METHODS AND SYSTEMS FOR BONDING COMPOSITE STRUCTURES

ABSTRACT OF THE DISCLOSURE

A method of bonding composite structures includes positioning a second structure at a bonding site on a first structure and coupling a first vacuum bag to the first structure such that the first vacuum bag covers the bonding site. The method also includes applying a vacuum to the first vacuum bag to induce a first
5 mechanical force to the second structure via the first vacuum bag. A second vacuum bag is coupled to the first structure such that second vacuum bag covers the second structure and at least a portion of the first vacuum bag. The method further includes applying a vacuum to the second vacuum bag to induce a second mechanical force to the second structure via the second vacuum bag.

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[FIG. 4]