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(71) Applicant (for all designated States except US): **THE BOEING COMPANY** [US/US]; 100 North Riverside Plaza, Chicago, Illinois 60606-2016 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DAN-JUMBO, Eugene A.** [US/US]; 3333 189th Place, SE, Bothell, Washington 98012 (US). **BALDWIN, Joel P.** [US/US]; 6741A 24th Ave., NW, Seattle, Washington 98117 (US).

(74) Agents: **SATERMO, Eric K** et al.; The Boeing Company, PO Box 2515, MC 110-SD54, Seal Beach, California 90740-1515 (US).

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(54) Title: METHOD OF PROMOTING ADHESION AND BONDING OF STRUCTURES AND STRUCTURES PRODUCED THEREBY

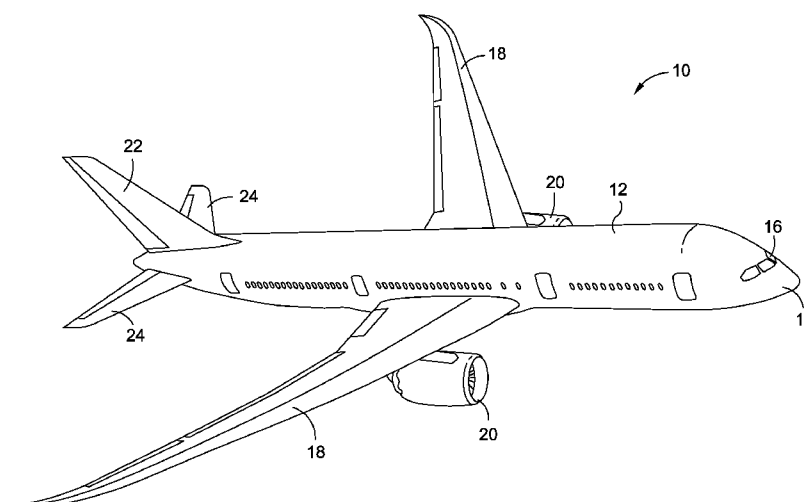


FIG. 1

(57) Abstract: The disclosure provides in one embodiment a method of promoting adhesion on a composite surface. The method comprises providing a composite structure having at least one composite surface to be bonded. The method further comprises preparing the at least one composite surface. The method further comprises providing a chemical derivatization compound containing active functional groups that promote adhesion. The method further comprises depositing the chemical derivatization compound on the prepared composite surface to form a functional group-adhesive promoter derivatized layer. The method further comprises applying an adhesive layer to the derivatized layer. The method further comprises heat curing the adhesive layer to result in a bond with another structure made of a composite, a metal, or a combination thereof.

