

Title (en)
AIRCRAFT WITH BELLY FLAPS

Title (de)
FLUGZEUG MIT RUMPFKLAPPEN

Title (fr)
AERONEF A VOLETS MONTES SUR LE VENTRE

Publication
EP 1917186 A2 20080507 (EN)

Application
EP 06847453 A 20060727

Priority
• US 2006029455 W 20060727
• US 70291205 P 20050727

Abstract (en)
[origin: WO2007117260A2] A blended wing body aircraft may include a blended wing configured to house a person, payload and/or cargo within the wing, a surface structure, and an actuator. The actuator may be configured to controllably cause the planar structure to extend downwardly from an underside surface of the wing oriented such that the planar structure forms a sweep angle with the aircraft between -70 and 70 degrees. Substantially each point on the planar structure may be behind a leading edge of the wing and in front of a trailing edge of the wing by at least 5% of the length of the chord of the wing that passes through the point. The actuator may be configured to controllably cause the planar structure to extend downwardly from an underside surface of the wing with an orientation that causes an increase in static pressure ahead of the hinge line of the planar structure and a decrease aft of the hinge line during forward movement of the aircraft, as compared to when the planar structure is not extended. Deployment of all planar structures may increase the aircraft's control pitching moment and/or lift by more than 5 percent as compared to when they are not deployed.

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Citation (search report)
See references of WO 2007117260A2

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