

Title (en)  
WING STRUCTURE FOR KITE-LIKE DEVICE

Title (de)  
FLÜGELKONSTRUKTION FÜR DRACHENARTIGE VORRICHTUNG

Title (fr)  
STRUCTURE D'AILE POUR CERF-VOLANT

Publication  
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Application  
**EP 02800649 A 20021011**

Priority  
• FR 0203468 W 20021011  
• FR 0113081 A 20011011

Abstract (en)  
[origin: WO03031258A1] The invention concerns a wing structure (2) designed for traction of a wind-driven mobile craft, having a leading edge substantially shaped like a semicircle with one first diameter at rest in a first plane (Pa) and a trailing edge (12). The structure comprises a reinforcement for rigidifying the wing including a leading portion (4) at least in the shape of a coil, and a plurality of transverse stiffeners (6, 6', 6''), the reinforcement being covered with an upper skin (8) and a lower skin (10) assembled to form the trailing edge (12). The width of the upper (8) and lower (10) skins continuously tapers from the central portion of the leading edge substantially up to the respective ends thereof, such that the trailing edge (12) has substantially the shape of an ellipse whereof the focal axis (16) is smaller than the first diameter, the intersecting straight line (18) of the first plane (Pa) and of the global plane of the trailing edge (Pf) being located well below the leading edge base diameter (14).

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