

Title (en)
WING-SHAPED SAIL, PRODUCTION METHOD AND DEVICE ASSOCIATED THEREWITH, AND USES THEREOF IN PARTICULAR FOR WIND-POWERED OR SUSTENTATION VEHICLES

Title (de)
FLÜGELFÖRMIGES SEGEL, HERSTELLUNGSVERFAHREN UND DAMIT VERBUNDENE VORRICHTUNG UND VERWENDUNGEN DAVON, INSBESONDERE FÜR WINDGETRIEBENE ODER AUFTRIEBSFAHRZEUGE

Title (fr)
VOILURE EN FORME D'AILE, PROCÉDÉ DE FABRICATION ET DISPOSITIF ASSOCIÉS, AINSI QUE SES UTILISATIONS, NOTAMMENT POUR LES ENGIN À PROPULSION VÉLIQUE OU SUSTENTATION VÉLIQUE

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Abstract (en)
[origin: WO2019102097A1] The invention relates to a wing-shaped sail which has an aerodynamic profile and is formed by at least one closed flexible envelope, comprising two lateral walls, which are spaced apart from each other, between the front (leading edge side) and the rear (trailing edge side) and providing between them an inner space capable of being inflated to form a rigid profile. The invention is characterized in that said inner space is equipped with rows of wires (4) which extend from the front to the rear of the envelope and are held by bonding or welding alternately on the inner face of each of the lateral walls (5a, 5b) of the envelope according to a serrated arrangement, said bonded or welded wires ensuring the maximum separation between the two lateral walls (5a, 5b) in the inflated state of the envelope. The invention also relates to the use thereof for wind-powered vehicles, such as ships, or for sustentation wings such as paragliding or kitesurfing wings, or for producing wind turbine blades.

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