

Title (en)

METHOD ON REGULATING THE AIR FLOW AROUND THE WINDMILL WING AND DEVICE FOR USE IN SUCH METHOD

Title (de)

METHODE UM DIE UMSTRÖMUNG UM EIN BLATT EINER WINDMÜHLE ZU REGELN UND EINRICHTUNG DAFÜR

Title (fr)

PROCEDE POUR REGULER L'ECOULEMENT DE L'AIR AUTOUR D'UNE PALE D'EOLIENNE ET DISPOSITIF UTILISE AVEC CE PROCEDE

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Abstract (en)

[origin: WO0075508A1] The invention concerns a method and a device for regulating the air flow around a wing on a wind mill. The device consists of a spoiler provided with a hollow. The spoiler is fastened to the leading part of the wing, and the spoiler may assume different shapes in order thereby to change the air flow around the wing. When the spoiler assumes a deactivated shape, no substantial change of the air flow occurs as the spoiler then extends continually and follows the contour of the wing. When the spoiler assumes an activated shape, the air flow is changed, however, by the spoiler no longer following the contour of the wing and creating a discontinuity or at least changing the wing section so that the flow conditions are changed. The change of shape occurs by supplying a fluid, such as pressurised air or hydraulic oil, to the hollow in the spoiler. The change in the air flow is an advantage in order thereby to regulate the rotational speed of the rotor onto which the wing is mounted.

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