

Title (en)

BLADE FOR WIND TURBINES WITH A VERTICAL ROTATIONAL AXIS

Title (de)

FLÜGEL FÜR WINDTURBINEN MIT VERTIKALER DREHACHSE

Title (fr)

PALE POUR TURBINES ÉOLIENNES PRÉSENTANT UN AXE DE ROTATION VERTICAL

Publication

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Application

EP 08758668 A 20080521

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Abstract (en)

[origin: WO2008141813A2] The invention relates to a blade for wind turbines with a vertical rotational axis, said blade being supported by a single arm (2), which projects radially from a hub (1) that is mounted to rotate (R) around the vertical axis (A). Said blade has a substantially elliptical linear (3) or hastate (30) contour that is symmetrical about a horizontal axis (H), the cross-section having a substantially elliptical form in relation to the vertical cross-section, which contains the vertex of the dorsal and ventral surfaces of the blade (3, 30), said form being defined by the curved profile (3i, 3e, 13e; 30i, 30e, 130e) of said surfaces. The vertexes of said curves dip in the region of greatest width (chord) of the blade (3, 30), forming the region, to which the single supporting arm (2) can be attached or fixed (3f, 30f).

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