

Title (en)
ROTOR BLADE FOR A WIND POWER PLANT AND WIND POWER PLANT

Title (de)
ROTORBLATT FÜR EINE WINDKRAFTANLAGE SOWIE WINDKRAFTANLAGE

Title (fr)
PALE DE ROTOR POUR UNE ÉOLIENNE ET ÉOLIENNE

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Abstract (en)
[origin: WO2009146810A2] The invention relates to a rotor blade for a wind power plant, particularly for a horizontal axis wind turbine having an aerodynamic profile comprising a pressure side (16) and a suction side (15). The depth (T) of the aerodynamic profile is determined by the distance from the front blade edge (13) to the rear blade edge (14), and the thickness (D) thereof is defined by the distance from the suction side (15) to the pressure side (16). The rotor blade extends, starting from the blade connection (10), along a longitudinal extension direction to the blade tip (11). According to the invention, a fore flap (20) is disposed in the region of the front edge (13) on the suction side (15) of the rotor blade (6), maintaining a gap to the suction side (15), said flap extending approximately from the blade connection (10) over a maximum of one-third of the length of the rotor blade (6). Using the fore flap (20), the power deficiencies due to the aerodynamically imperfect profile in the indicated region are at least partially compensated for, thus increasing the power potential of a rotor blade according to the invention.

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