

Title (en)

ROTARY CONNECTION OF A ROTOR BLADE TO THE ROTOR HUB OF A WIND ENERGY PLANT

Title (de)

DREHVERBINDUNG EINES ROTORBLATTES MIT DER ROTORNABE EINER WINDKRAFTANLAGE

Title (fr)

JOINT TOURNANT ENTRE UNE PALE DE ROTOR ET LE MOYEU DU ROTOR D'UN AÉROGÉNÉRATEUR

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Application

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Priority

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Abstract (en)

[origin: WO2011110453A2] The invention relates to a rotary connection of a rotor blade (2) to the rotor hub (3) of a wind energy plant, having a rotary mounting which is configured as a large anti-friction bearing (4) with a bearing inner ring (5) and a bearing outer ring (6), one bearing ring (5) of which rotary mounting is connected to the blade root (8) of the rotor blade (2), and the other bearing ring (6) of which rotary mounting is connected to the rotor hub (3), and having a blade-angle adjustment means which is configured as a gearwheel mechanism with a crown gear (15) which is embodied in sections and with a pinion which is connected to the drive shaft of an actuating motor, the crown gear (15) of which blade-angle adjustment means is arranged on one bearing ring (5), and the actuating motor of which blade-angle adjustment means is fastened to the component (3) which is connected to the other bearing ring (6). In order to reduce the production outlay and in order to improve the ease of servicing the rotary connection, it is provided that the crown gear (15) is a constituent part of a separate annular-segment component (18) which is connected to the associated bearing ring (5) and/or to the component (2) which is connected to the bearing ring (5), and the circumferential dimension of which separate annular-segment component (18) corresponds largely to the angular range (17) of the toothing (16).

IPC 8 full level

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