

Title (en)
DEVICE FOR ADJUSTING THE PITCH OF THE BLADES OF A WIND TURBINE AND A METHOD FOR STOPPING THE ROTATION OF THE MAIN SHAFT

Title (de)
REGELVORRICHTUNG FÜR DAS VERSTELLEN UND STILLSETZEN DER FLÜGEL EINER WINDKRAFTMASCHINE

Title (fr)
nDISPOSITIF PERMETTANT D'AJUSTER LE PAS DE PALES D'EOLIENNES ET METHODE PERMETTANT DE FAIRE CESSER LA ROTATION DE L'ARBRE PRINCIPAL

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Priority

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Abstract (en)
[origin: WO0061942A1] The present invention relates to a device and a method for adjusting the pitch of wind turbine blades. Adjusting may be a controlling of the pitch in a situation during normal operation of the wind turbine or may be an alteration of the pitch in a fail-safe situation. Activatable driving means being a pitch motor is used for controlling the pitch. A so-called negative brake mechanism is used for altering the pitch in a fail-safe situation and thereby braking the rotation of the main shaft. The fail-safe braking takes place by means of introducing a difference in rotation of a synchronising shaft or a back-up brake wheel in relation to the main shaft. The difference in rotation of the synchronising shaft or the brake wheel is transferred to an angle gear or a worm gear that transfers the rotation to pivot joints onto which the blades are mounted and thereby altering the pitch of the blades.

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See references of WO 0061942A1

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WO 0009885 A1 20000224 - NEG MICON A S [DK], et al

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