

Title (en)

Pitch adjustment and retention device of a blade in an energy conversion apparatus

Title (de)

Anstellwinkeleinstell- und Haltevorrichtung und Schaufel einer Anlage zur Energiewandlung

Title (fr)

Dispositif de réglage du pas et de rétention d'une pale d'un appareil de conversion d'énergie

Publication

EP 2174003 A2 20100414 (DE)

Application

EP 08784959 A 20080722

Priority

- EP 2008005996 W 20080722
- DE 102007034618 A 20070725

Abstract (en)

[origin: WO2009012977A2] The present invention relates in an entirely general form to an installation (1) for production of energy from a fluid flow, preferably the production of so-called renewable energy from water power, and relates in particular to an incidence angle adjustment and holding apparatus for a blade (5, 5') of an installation (1) such as this, wherein a plurality of blades (5, 5') are arranged, in each case axially and radially at a distance from one another, along a driveshaft (6) of the installation (1), and wherein each blade (5, 5') is detachably attached to the driveshaft (6) at its end facing the driveshaft (6), by means of a holding device which produces an interlock in the axial direction of the blades (5, 5'), and each blade (5, 5') is designed such that it can be rotated and fixed by means of an adjusting device, in the installed state, on a plane at right angles to the axial direction A of the blades (5, 5') and relative to the driveshaft (6); furthermore, a blade (5, 5') according to the invention and a housing according to the invention comprising a multiplicity of tubular segments (2) for an installation (1) such as this, as well as a ball-bearing head (12) in order to support the driveshaft (6), are described and placed under protection.

IPC 8 full level

F03B 3/06 (2006.01); **F03B 3/14** (2006.01)

CPC (source: EP US)

F03B 3/04 (2013.01 - EP); **F03B 3/145** (2013.01 - EP); **F03B 11/02** (2013.01 - EP); **F03B 17/061** (2013.01 - EP); **F03D 1/025** (2013.01 - EP US);
F03D 7/0224 (2013.01 - EP); **F03D 80/70** (2016.05 - EP US); **F05B 2210/16** (2013.01 - EP); **F05B 2240/124** (2013.01 - EP);
F05B 2240/40 (2013.01 - EP); **F05B 2250/25** (2013.01 - EP); **F05D 2260/36** (2013.01 - EP); **Y02E 10/20** (2013.01 - EP);
Y02E 10/72 (2013.01 - EP)

Citation (search report)

See references of WO 2009012977A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007034618 A1 20090129; EP 2174003 A2 20100414; EP 2221472 A2 20100825; EP 2221472 A3 20111123; EP 2224125 A2 20100901;
EP 2224125 A3 20111019; WO 2009012977 A2 20090129; WO 2009012977 A3 20091126

DOCDB simple family (application)

DE 102007034618 A 20070725; EP 08784959 A 20080722; EP 10005775 A 20080722; EP 10005776 A 20080722; EP 2008005996 W 20080722