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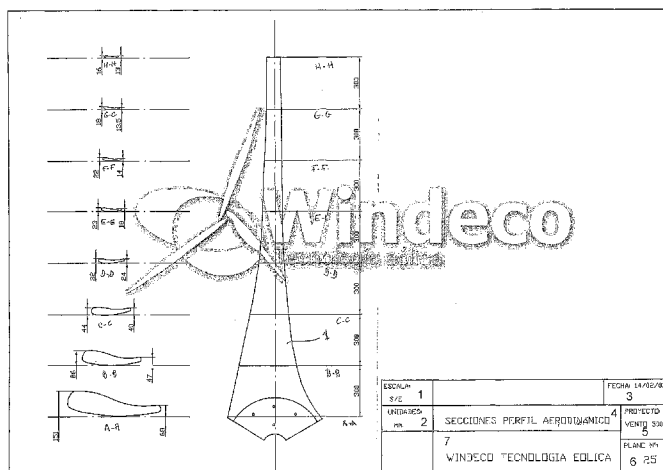
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[Continúa en la página siguiente]

(54) Title: IMPROVED AEROGENERATOR FOR LOW-POWER APPLICATIONS

(54) Título: AEROGENERADOR PERFECCIONADO PARA APLICACIONES DE BAJA POTENCIA



1 SCALE: S/E
2 UNITS: MM
3 DATE: 14/02/03
4 AIRFOIL SECTIONS
5 PROJECT: VENTO 5000
6 DRAWING NO: 25
7 WINDECO TECNOLOGIA EOLICA

(57) Abstract: The invention relates to an aerogenerator for low-power applications, of the type that are used to take advantage of wind energy. The invention enables full advantage to be taken of the action of the incident air owing to the blade profile design and the fact that the surface of the collection cone is divided into sectors. The wind vane is supported by a mast with a pre-determined incline and the connection between said mast and the rotating bushing is offset in relation to the vertical diametral plane. The invention also comprises an electronic control circuit which operates at a high frequency and which, together with a specific software program, helps to optimise the performance of the assembly.

(57) Resumen: Se describe un aerogenerador para aplicaciones de baja potencia, del tipo de los que se utilizan para el aprovechamiento de la energía eólica, en el que las palas han sido dotadas de un diseño de perfil que, junto la división en sectores de la superficie del cono de captación, permiten un aprovechamiento óptimo de la

[Continúa en la página siguiente]

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/ ES 2004/000091

A. CLASSIFICATION OF SUBJECT MATTER F03D1/06 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) F03D+ Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CIBEPAT, EPODOC, WPI		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5137417 A (LUND) 11.8.1992. Col. 7 líne s 40-58, figures 10 and 11	1
Y	COTRELL, J. The Mechanical Design, Análisis and Testing of a Two-Bladed Wind Turbine Hub. National Renewable Energy Laboratory. Colorado, June 2002. specially pages 11 and 22. from Internet: <URL: http://www.nrel.gov/docs/fy02osti/26645.pdf >	1
A	US 6132172 A (LI) 17.10.2000. the whole document	1
A	ES 2012310 T3 (UNITED TECHNOLOGIES) 01.04.1993. the whole document	1
A	DE 3617186 A (FROHNERT A.) 10.12.1987. the whole document	1
A	WO 8601563 A (JAECKEL, E). 13.03.1986. the whole document	1
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
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Date of the actual completion of the international search 4 May 2004 (04.05.04)		Date of mailing of the international search report 12 May 2004 (12-05.04)
Name and mailing address of the ISA/ SPTO		Authorized officer
Facsimile No.		Telephone No.