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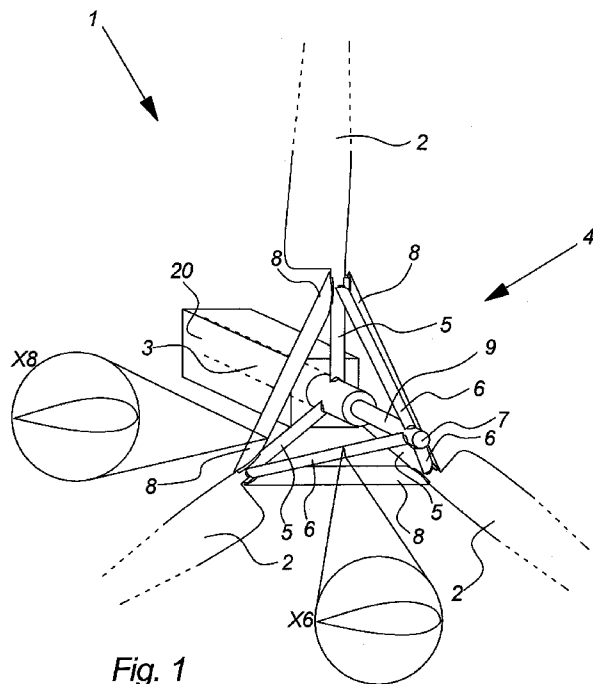
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(54) Title: A WIND TURBINE GENERATOR WITH EXTENDED BLADE SUPPORT



(57) Abstract: The present invention relates to a wind turbine generator with a hub that has a plurality of radially extending support structures, one radially extending support structure for each rotor blade, and a plurality of inclined support beams, one inclined support beam for each rotor blade, and/or a first peripheral support rod positioned in an exterior position on the hub, said first peripheral support rod connecting two of said radially extending support structures. The inclined support beams, and/or the first peripheral support rod have an airfoil shape providing aerodynamic lift upon wind engagement. This is advantageous for obtaining a wind turbine where the rotor blades resonances are controlled by designing and dimensioning the plurality of inclined support beams and the first peripheral support rod accordingly. At the same time the volume of the hub is utilized for increasing the aerodynamic lift while still facilitating a relatively strong structure of the hub.



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A. CLASSIFICATION OF SUBJECT MATTER

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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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2008/111841 A2 (HOLMOEY VIDAR [NO]) 18 September 2008 (2008-09-18)	1-18
Y	page 1, line 27 - page 2, line 7 page 4, line 19 - page 8, line 21 page 9, line 13 - page 12, line 8; claims 1-13; figures 1-3	1-18
Y	WO 86/02701 A1 (RIISAGER CHRISTIAN) 9 May 1986 (1986-05-09) page 4 - page 7; claims 1,2,4; figures 1-4	1-18
A	CH 222 864 A (FORSCH U VERWERTUNGSGESELLSCHA [DE]) 15 August 1942 (1942-08-15) the whole document	1-18

 Further documents are listed in the continuation of Box C. See patent family annex.

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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