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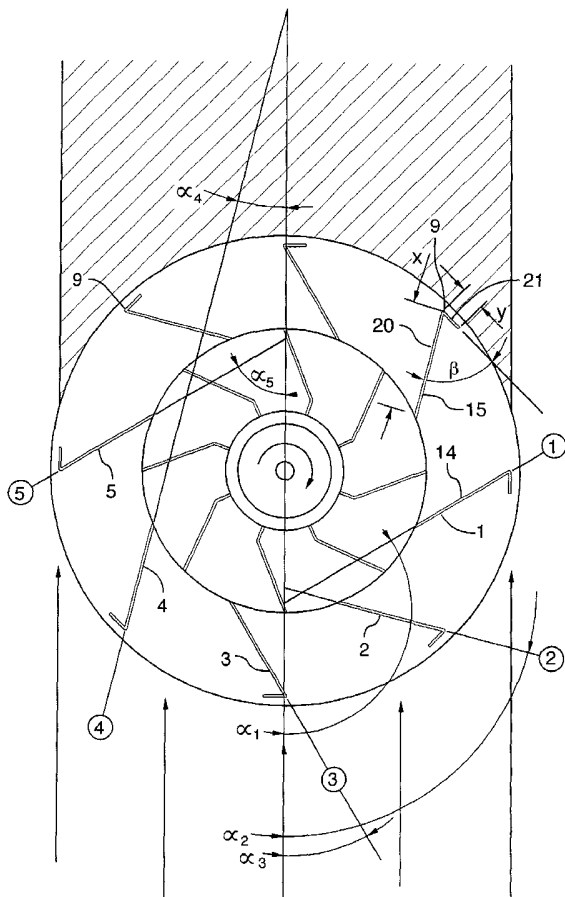
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(54) Title: VERTICAL AXIS WIND TURBINE



(57) Abstract: A vertical axis wind turbine with a turbine rotor with rotor blades disposed for rotation about a substantially vertical axis. The turbine includes multiple vertically extending stator vanes circumferentially spaced apart about the rotor in an annular array. Each vane has a radially inward facing surface, a radially outward facing surface and a flange on an outer edge of each vane. The flange serves to create a turbulent swirling boundary layer on the vane surfaces that rotates in a direction that draws and redirects air flow into the air flow channels defined by the stator vanes that is then compressed by the narrowing of the channels and directed to the rotor blades to drive the turbine.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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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	US 4 551 631 A (TRIGILIO GAETANO T) 5 November 1985 (1985-11-05)	1-12,14
Y	abstract column 3, line 37 - column 4, line 5; figures	13
Y	----- EP 0 867 615 A (SCHEMBRI ANDREW JOSEPH ; SCHEMBRI JOSEPH PAUL (AU)) 30 September 1998 (1998-09-30) column 2, line 55 - column 3, line 32; figures 1,2	13
A	----- GB 2 275 970 A (DAVIES KENNETH MORGAN) 14 September 1994 (1994-09-14) page 5, line 2 - line 6; figure 4 ----- -/--	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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