

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 February 2009 (12.02.2009)

PCT

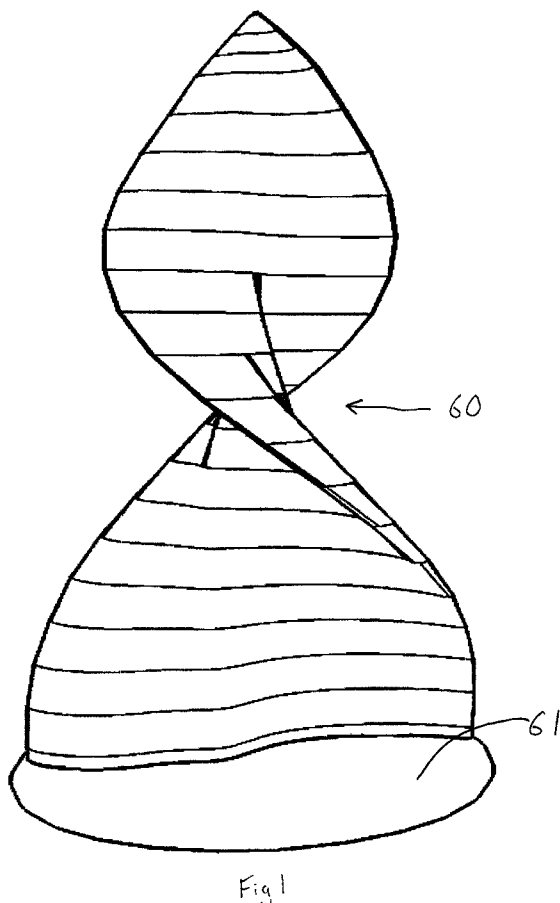
(10) International Publication Number
WO 2009/018666 A8

- (51) **International Patent Classification:**
F03D 3/00 (2006.01) F03D 3/06 (2006.01)
F03B 3/12 (2006.01)
- (21) **International Application Number:**
PCT/CA2008/001446
- (22) **International Filing Date:** 8 August 2008 (08.08.2008)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
60/954,747 8 August 2007 (08.08.2007) US
- (71) **Applicant and**
- (72) **Inventor: ROKEBY-THOMAS, Andrew Byron Rhys**
[CA/CA]; 175 Kanaka Road, Ganges, Saltspring Island,
BC V8K 2A9 (CA).
- (74) **Agent: COOPER, Michael D.;** Barrigar Intellectual Prop-
erty Law, Suite 201, 1007 Forth Street, Victoria, British Co-
lumbia V8V 3K5 (CA).

- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, **BB**, BG, **BH**, **BR**, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, **DK**, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, **HR**, HU, **ID**, **IL**, IN, **IS**, **JP**, KE, KG, KM, KN, **KP**, **KR**, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, **PH**, PL, PT, **RO**, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, **TJ**, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
- (84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, **HR**, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, **BJ**, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) **Title: TRANSVERSE-AXIS TURBINE WITH TWISTED FOILS**



(57) **Abstract:** A turbine, suitable for use as a water or wind turbine, for generating rotary motion from fluid flow wherein the axis of rotation of the turbine is transverse to the direction of flow. The turbine has two foils, which may meet at the axis of rotation, and the turbine is helical and tapered. The turbine has a quasi-conical base. The non-mount end of the turbine is preferably tilted downstream with the turbine axis of rotation in the range of about 5° to 15° from perpendicular to the flow direction.

WO 2009/018666 A8



Published:

— *with international search report*

(48) Date of publication of this corrected version:

30 April 2009

(15) Information about Correction:

see Notice of 30 April 2009