



(51) International Patent Classification:

F03B 13/00 (2006.01) *F03B 13/06* (2006.01)
A62C 31/00 (2006.01) *F03B 17/02* (2006.01)

(21) International Application Number:

PCT/CA2011/000905

(22) International Filing Date:

8 August 2011 (08.08.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13/067,373 27 May 2011 (27.05.2011) US

(72) Inventor; and

(71) Applicant : **CHIU, Chiu, Wen** [CA/CA]; 2160 - 5th Con-
cession Road, West, RR2, Branchton, Ontario N0B 1L0
(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,

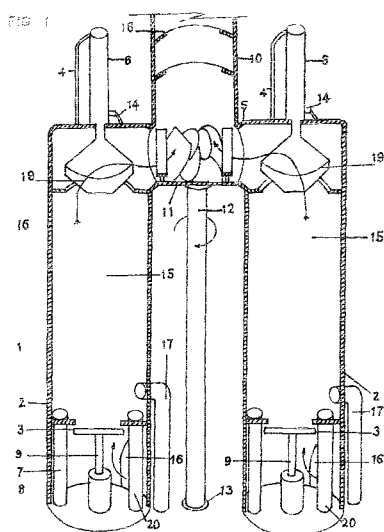
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, SC, SD, SE,
SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: SYSTEM OF POWER GENERATION WITH UNDER WATER PRESSURE OF AIR



(57) Abstract: Higher pressure exists at the bottom of deep water (1) (including other fluids). This system utilizes machinery (2) to compress a compressible fluid matter such as air with deep water high pressure so as to store the energy in the compressed air having a smaller compressed volume. The compressed air is subsequently injected into an expansion chamber (5) in which it releases the stored energy and returns to its original volume. In constant temperature, a 10 m³ volume of water provides 10 times pressure to compress a single volume to 1/10 its volume. When the pressure is reduced 10 times, the compressed air would return to its original volume to release the stored energy which can be utilized to rotate a turbine (11) and in turn a power generator (21) to generate electric power.

