

PatBase - Search results 12 July 2019**Search query (2):** FT=(pelton and wheel) and APD<20161802 and CPC=(F01D AND F03D)**Results:** 6**Search history**

Search 1: FT=(pelton and wheel and tray* and disc and expansion and bolt and screw) and APD<20161802 and CPC=(F01D AND F03D) (Results 0)

Search 2: FT=(pelton and wheel) and APD<20161802 and CPC=(F01D AND F03D) (Results 6)

1) Family number: 13082061 (US6247897B)

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Title: an improved vane system**Priority:** ZA19980005172 19980615

Family:	Publication number	Publication date	Application number	Application date
	DE69916529 D1	20040527	DE19996016529	19990608
	DE69916529 D1	20040527	DE19996016529T	19990608
	DE69916529 T2	20050414	DE19996016529T	19990608
	EP0965753 A1	19991222	EP19990304418	19990608
	EP0965753 B1	20040421	EP19990304418	19990608
	HK1024520 A1	20041210	HK20000103763	20000621
	HK1024520 B	20041210	HK20000103763	20000621
	JP2000054993 A2	20000222	JP19990163840	19990610
	JP4278781 B2	20090617	JP19990163840	19990610
	TW442616 B	20010623	TW19980120884	19981214
	US6247897 BA	20010619	US19990330387	19990611

Probable Assignee: PATEL DINESH**Assignee(s):(std):** PATEL DINESH**Assignee(s):** DINESH PATEL**Inventor(s):(std):** PATEL DINESH**Inventor(s):** DINESH PATEL**Agent(s):** CHINA PATENT AGENT HK LTD**Designated states:** CH DE FR GB IT LI

International class (IPC 8-9): B63H B63H1/26 F01D F01D5/14 F03B1/00 F03B17/00 F03D1/06 F03D3/06 F04D F04D29/18 F04D29/24 F04D29/30 F04D29/32 F04D29/38 (Advanced/Invention); B63H1/00 F01D5/14 F03B1/00 F03B17/00 F03D1/00 F03D3/00 F04D29/18 F04D29/30 F04D29/32 F04D29/38 (Core/Invention)

International class (IPC 1-7): B63H1/26 F01D5/14 F03B1/00 F03B17/00 F03D1/06 F03D3/06 F04D29/24 F04D29/30 F04D29/38

CPC: B63H1/26 F01D5/141 F03B1/00 F03B1/02 F03B17/00 F03D1/0608 F03D3/061 F04D29/242 F04D29/30 F04D29/324 F04D29/384 F05B2250/241 Y02E10/20 Y02E10/223 Y02E10/721 Y02E10/74 Y02T50/673

European class: B63H1/26 F01D5/14B F03B1/00 F03B1/02 F03B17/00 F03D1/06B F03D3/06D F04D29/24A F04D29/30 F04D29/32B3 F04D29/38C R05B250/241 Y02E10/20 Y02E10/22B Y02E10/72B Y02E10/74 Y02T50/67D

US class: 416/197.00R 416/197R 416/213.00A 416/213A 416/220.00A 416/220A 416/234 416/237 416/241.00A 416/241A 416/243 416/244.00B 416/244B

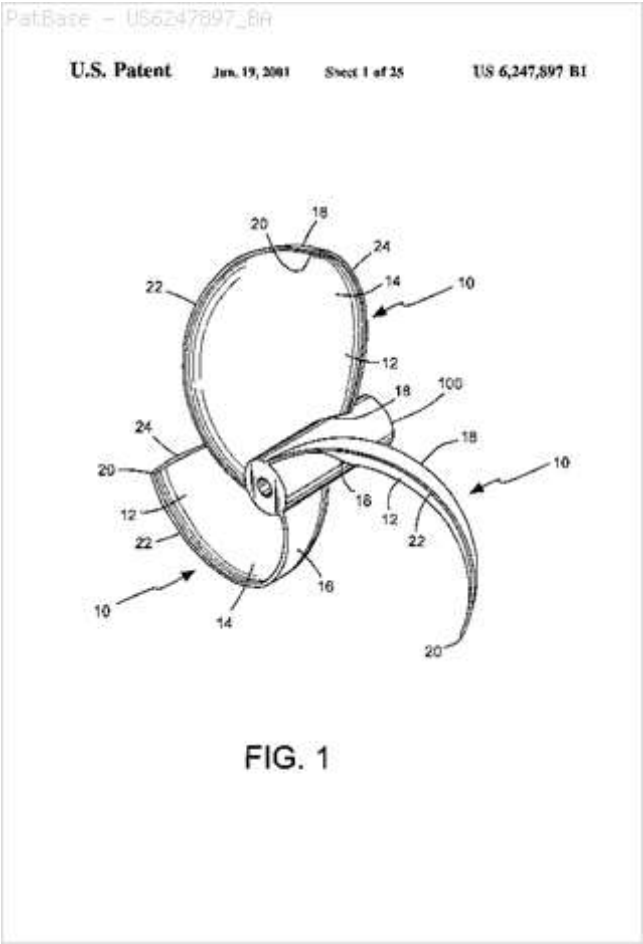
[Classification Explorer](#)

Cited documents: US755426 A, US471817 A, US4419587 A, US3782857 A, US2977091 A, US2252788 A, US2252788, US2240597 A, US2212041 A, US2059648 A, US2024700 A, US2000720 A, US02252788, RU2003831 C1, JP56006959 U, GB583291 A, GB2199379 A1, FR382724 A,

FR2549761 A3, EP0522336 A1, DE3613434 A1, DE3118648 A1, DE2717379 A1, DE19619317 A1,

Forward Citations: WO14073741, WO13015758, WO10139030, WO09126312, WO06068529, WO0053923, USD769192, USD762575, USD748054, US9705446, US9404476, US8951018, US8393923, US8338973, US8317480, US8303259, US8226369, US7025642, US6955461, US6688849, US6672839, US6554573, US6386939, US2015152841, US2012302113, US2011027089, US2010028154, US2006128235, US2004145966, US2003223874, US10053986, KR101286380, JP2009121241, DE102009009037,

Abstract:
An improved vane system comprising of two or more vanes being part of a spherical section related to a hub characterized in that an operative concave surface of the vane being part of the spherical section. An operative convex surface of the vane being part of a spherical section and the vane having an operative anterior lateral border with an operative posterior lateral border having a free superior tip and an inferior edge related to the hub by which the vane is angularly displaced around an axis being parallel to the velocity and the drift of the fluid.



2) Family number: 8402091 (WO9319978A1)

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Title:	FOIL DEVICE			
Priority:	NO19920001248	19920331	WO1993NO00052	19930331
Family:	Publication number	Publication date	Application number	Application date
	AU199339092 A1	19931108	AU19930039092	19930331
	NO921248 A	19931001	NO19920001248	19920331
	NO921248 A0	19920331	NO19920001248	19920331
	NO921248 L	19931001	NO19920001248	19920331
	WO9319978 A1	19931014	WO1993NO00052	19930331

Probable Assignee: LYNGHOLM TORE
Assignee(s):(std): LYNGHOLM TORE
Assignee(s): TORE LYNGHOLM
Inventor(s):(std): LYNGHOLM TORE
Inventor(s): TORE LYNGHOLM
Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US VN
International class B63B1/28 B63B41/00 B63H25/38 B64C3/48 F01D5/14 F03B3/12 F03D1/06
(IPC 8-9): F03D3/06 (Advanced/Invention);

B63B1/16 B63B41/00 B63H25/06 B64C3/00 F01D5/14 F03B3/00 F03D1/00
F03D3/00 (Core/Invention)

International class B63B3/38 B63H9/06 F03D3/00
(IPC 1-7):

CPC: F05D2240/301 B63H19/02 B63B1/285 B63B41/00 B63H13/00 B64C3/48 F01D5/148
F03B3/121 F03D1/0675 F03D3/061 F05B2240/301 Y02E10/223 Y02E10/721 Y02E10/74
Y02T50/673 Y02T70/58 Y02T70/59

European class: B63B1/28C B63B41/00 B63H13/00 B63H19/02 B64C3/48 F01D5/14D F03B3/12B
F03D1/06C6 F03D3/06D R05B240/301 Y02E10/22B Y02E10/72B Y02E10/74 Y02T50/67D
Y02T70/58 Y02T70/59

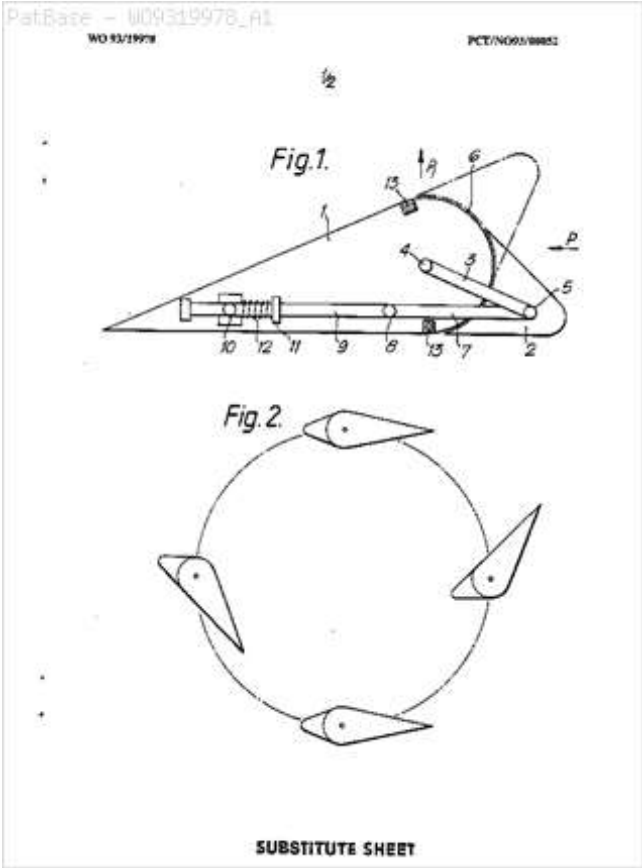
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Cited documents: WO8500573 A1, US4766831 A, US4561374 A, US3332383 A, GB1588123 A, FR1409241
A, EP0315394 A1,

Forward Citations: WO0066427, US6910662, EP1175334,

Abstract:

A paddle or wing for utilizing the forces in flowing media such as gas, air or water, for use in turbines, propulsion of vessels and the like. The paddle or wing is pivotably or pendulously suspended and capable of self-adjustment into an aerodynamic form when a force is directed against one of the lateral surfaces of the paddle or wing. This force will normally result from the fact that the paddle or wing is arranged to be movable transversely to the direction of flow in the medium.



3) Family number: 55666339 (US2014023500A)

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Title: VERTICAL AXIS WIND AND HYDRAULIC TURBINE WITH FLOW CONTROL
Priority: AR2012P102619 20120719 AR2012P103837 20121015 WO2013IB55839 20130716
EP20130752937 20130716

Family:	Publication number	Publication date	Application number	Application date
	AR087247 AA	20140312	AR2012P102619	20120719
	AR089173 AA	20140806	AR2012P103837	20121015
	AU2013291592 AA	20140123	AU20130291592	20130716
	AU2013291592 BB	20170803	AU20130291592	20130716
	BR112014026345	20170627	BR20141126345	20130716
A2	CA2879343 AA	20150116	CA20132879343	20130716
	CA2879343 C	20190402	CA20132879343	20130716
	CN104471239 A	20150325	CN201380038484	20130716
	CN104471239 B	20181012	CN201380038484	20130716
	DE602013052300	20190404	DE201360052300T	20130716

D1

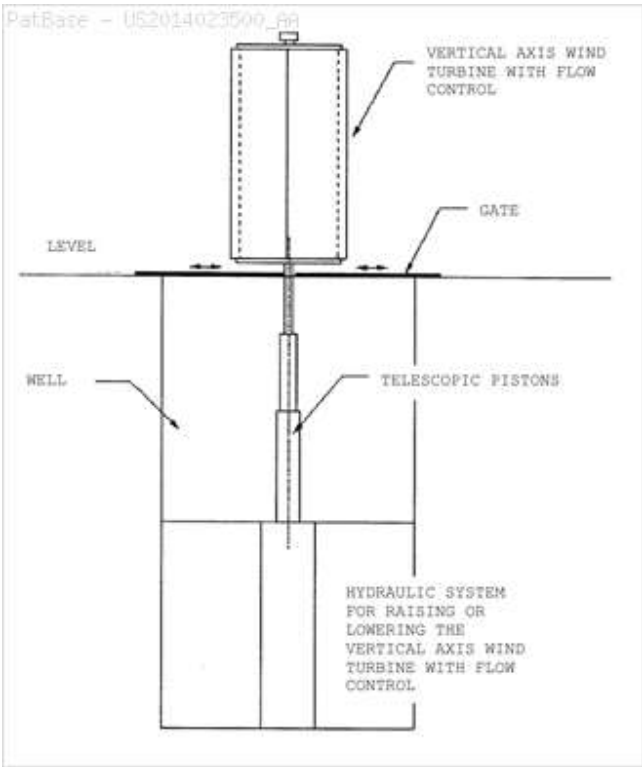
EP2831408 A1	20150204	EP20130752937	20130716
EP2831408 B1	20190313	EP20130752937	20130716
IL235160 A0	20141231	IL20130235160	20130716
IN02021MN2014 A	20150814	IN2014MN02021	20141013
JP2015522755 T2	20150806	JP20150522226T	20130716
JP6257617 B2	20180110	JP20150522226T	20130716
KR20150027249 A	20150311	KR20157001980	20130716
RU2015104806 A	20160910	RU20150104806	20130716
RU2645187 C2	20180216	RU20150104806	20130716
US2014023500 AA	20140123	US20130736325	20130108
US9938958 BB	20180410	US20130736325	20130108
WO14013432 A1	20140123	WO20131B55839	20130716
ZA201409338 A	20151223	ZA20140009338	20141218

Probable Assignee: RUBIO ANA ELISA**Assignee(s):(std):** ANA ELISA RUBIO ; HUMBERTO ANTONIO RUBIO ; RUBIO ANA ; RUBIO ANA ELISA ; RUBIO HUMBERTO ANTONIO ; RUBIO HUMBERTO ; RUBIO UMBERTO ANTONIO**Assignee(s):** RUBIO ANA ELIZA ; RUBIO ANA ELISA RUBIO HUMBERTO ANTONIO**Inventor(s):(std):** RUBIO HUMBERTO ANTONIO ; RUBIO UMBERTO ANTONIO ; HUMBERTO ANTONIO RUBIO**Agent(s):** GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; SCHWARZ AND PARTNER; SCHWARZ AND PARTNER PATENTANWALTE OG; ASAMURA PATENT OFFICE PC; OOO YURIDICHESKAYA GORODISSKIY I PARTNER Y FA; YOUNG AND THOMPSON**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**International class (IPC 8-9):** F01D1/06 F01D1/08 F03B F03B17/06 F03B3/12 F03B3/14 F03B3/18 F03B7/00 F03D F03D3/00 F03D3/04 F03D3/06 F03D7/02 F03D7/06 (Advanced/Invention); F03B (Subclass/Invention)**CPC:** F03B17/063 F03D3/0427 F05B2240/13 F05B2240/12 F05B2240/9151 F05B2240/91521 F05B2250/22 Y02E10/223 Y02E10/28 Y02E10/728 Y02E10/74 F01D1/06 F03D3/005 F03B3/183 F03D3/0418 F05B2210/16 F05B2250/132 F05B2270/101 F01D1/08 F03B17/062 F05B2220/32 F05B2240/211**US class:** 416/24[Classification Explorer](#)**Cited documents:** WO11160688 A1, WO11160688 A1, WO06097091 A1, WO06097091 A1, US8210805 BA, US8210805, US8192138 BB, US7471009 BB, US7471009, US7105942 BB, US7105942, US7083382 BB, US7083382, US6824349 BB, US6824349, US5664418 A, US5664418 A, US566441 A, US5503530 A, US4468169 A, US4468169 A, US4236866 A, US4236866 A, US4205943 A, US4205943 A, US4104536 A, US4104536 A, US3986787 A, US3986787 A, US204481 A, US204481 A, US2012107085 AA, US2012107085 AA, US2010254799 AA, US2009289459 AA, US2008007067 AA, US2008007067 AA, SU1721285 A1, RU69579 U1, RU2267647 C1, KR20110136262 A, KR20110136262 A, KR20110122971 A, JP4468739 B2, JP2012057483 A2, JP2012057483, JP2005333744 A2, JP2005333744 A2, JP200444477, JP2004301088 A2, JP2004301088, JP2004044477 A2, JP2004044477, JP2002364517 A2, JP2002364517, JP2002322975 A2, JP2002322975, JP2001193633 A2, JP2001193633, JP2001003708 A2, JP2000161196 A2, JP2000161196, GB2486911 A1, GB2486911 A1, GB2486697 A1, GB2486697 A1, GB2485574 A1, GB2485574 A1, ES2310965 AA, ES2310965, ES2161650 AA, ES2161650, ES2149638 AA, ES2149638, ES2020711 AF, ES2020711 a2, ES2020711,

DE102005060818 A1

Forward Citations: WO17156536, WO17137858, WO16055978, US9845792, US9714640, US2016300753, US2014321989, US10054107, KR20160134526, FR3046204, EP3426915, EP3112674, DE102016004562, CN108361142, CN105089906, CN103956963,**Abstract:**

A vertical axis wind and hydraulic turbine with flow control including a regular hexagonal structure of radius R, parallelepiped-shaped, inside which a rotor rotates with three or more vanes on a vertical axis which is located in the center of the hexagon as seen from above, wherein the vanes when rotating generate a circle of radius Rt, further including six articulated deflector vanes that grab and concentrate the flow of air or liquid entering the rotor vanes, from the wind or liquid current entry side to the turbine and diffuse the flow of air or liquid exiting from the rotor vanes, from the side opposite to the wind or liquid entry side to the turbine.



4) Family number: 51246392 (US2012137684A)

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Title: SOLAR AUGMENTED WIND TURBINE FOR STABLE AND DISPATCHABLE UTILITY SCALE POWER GENERATION

Priority: US20100458790P 20101202 US20110307010 20111130

Family:	Publication number	Publication date	Application number	Application date
	US2012137684 AA	20120607	US20110307010	20111130
	US8739533 BB	20140603	US20110307010	20111130

Probable Assignee: YOGEV OR

Assignee(s):(std): YOGEV OR ; YOGEV YITZHAK

Inventor(s):(std): YOGEV YITZHAK ; YOGEV OR

Agent(s): BROWDY AND NEIMARK PLLC

International class F01D1/02 F01K1/00 F01K3/00 F03D11/00 F03D9/00 F03G6/00 F03G7/00
(IPC 8-9): H02P9/04 (Advanced/Invention)

CPC: F01D1/026 Y02E10/465 F03D15/00 F03D3/0409 F03D15/10 H02S10/12 F03D9/007 Y02E10/74

European class: F01D1/02D F03D11/02 F03D9/00E

US class: 165/10 165/10S 290/44 290/55 60/516 60/516S 60/641.12 60/641.14 60/641.140P 60/641.15 60/659 60/682 60/682S

[Classification Explorer](#)

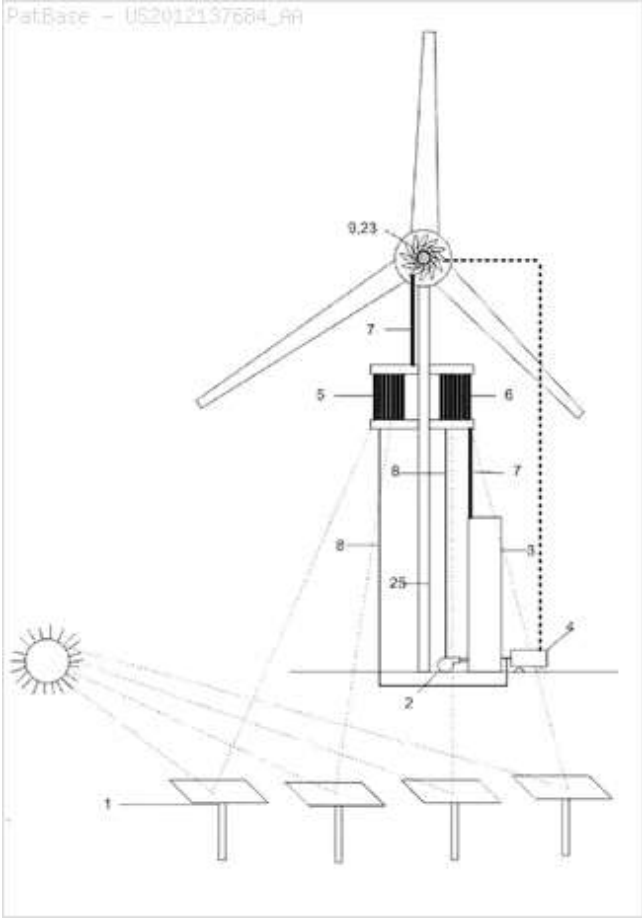
Cited documents: WO08029190 A1, US8247915 BB, US7964981 BB, US7851935 BB, US7615884 BB, US7067937 BB, US6927503 BB, US6492743 BA, US5436508 A, US5206537 A, US5103646 A, US4455834 A, US4447738 A, US4229941 A, US4224528 A, US3832853 A, US2011115226 AA, US2011041501 AA, US2010117372 AA, US2009033102 AA, US2008050234 AA, US2006055175 AA, US2005109030 AA, US1453084 A, FR2829805 A1,

Forward Citations: WO17125115, WO16065480, US9562521, US9416774, US8847425, US2017096985, US2015108763, US2013264829, US2012228963, US10305414, US10094361, JP6318332, JP2019037113, CN103916071, CN103916071, CN103775288,

Abstract:

The present invention describes a novel integration between wind and solar thermal renewable energy technologies. An existing wind turbine consisting of a hub and blades is operated by the power generated from a waterless solar thermal system (using high pressure, high temperature air) during periods of low wind availability. The solar thermal system consist of a heliostat field, solar air receiver panels, a thermal energy

storage tank and a Pelton wheel assembly system for converting thermal energy of air into kinetic energy of the power shaft of the wind turbine. The thermal energy converting system consists of a plurality of supersonic air nozzles acting as stator, producing supersonic air jets to interact with a rotating Pelton wheel. A thermal storage system provides means for energy dispatchability. The proposed integrated system is capable of generating a stable renewable energy with minimum intermittency.



5) Family number: 53178542 (GB2512562A)

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Title: DYNAMIC VALVULAR HELIX TURBINE

Priority: GB20120023493 20121230

Family:	Publication number	Publication date	Application number	Application date
	GB201223493 A0	20130213	GB20120023493	20121230
	GB2512562 A1	20141008	GB20120023493	20121230

Probable Assignee: KHAN PETER

Assignee(s):(std): KHAN PETER

Assignee(s): PETER KHAN

Inventor(s):(std): KHAN PETER

Inventor(s): PETER KHAN

International class F01D1/36 F03B5/00 F03D11/04 (Advanced/Invention)
(IPC 8-9):

CPC: F03B13/264 F03D3/061 F05B2210/16 F05B2240/12 F05B2250/25 Y02E10/28 Y02E10/74
F03B17/063 F01D1/36 F03B5/00 F03B11/004 F03D13/20

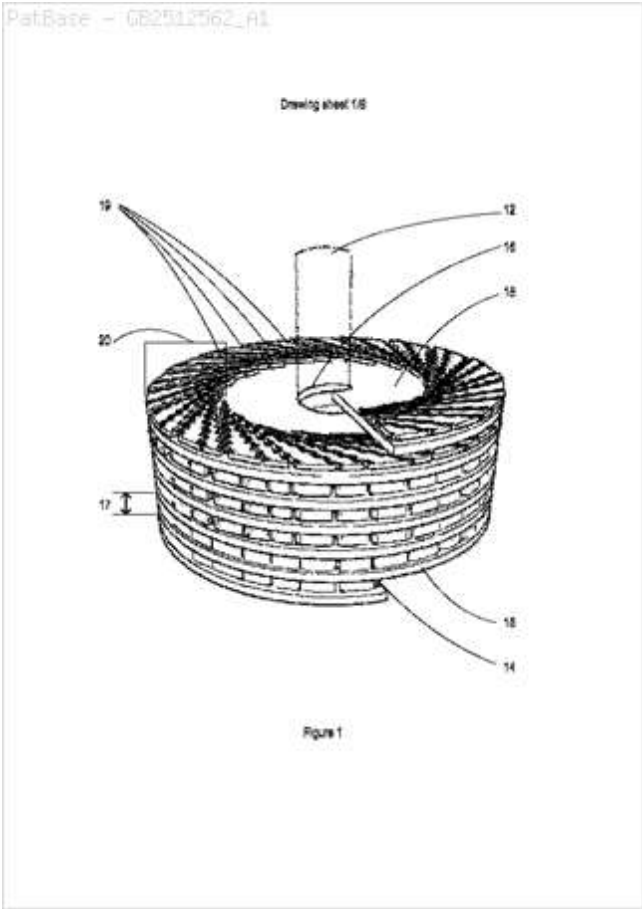
[Classification Explorer](#)

Cited documents: WO06089425 A1, US8764399 BA, GB2477101 A1, GB2226081 A1,
DE102011116711 A1

Abstract:

A turbine comprises a shaft 12 affixed around which is a wide flat helix 15, the inner edge 16 of the helix being contiguous with the outer surface of the shaft. The helix, like a screw thread, has a precise pitch, the distance between its turns being congruous throughout. The space between the turns of the helix is a helical conduit 18 allowing fluid to flow through. The aperture 14 at one endpoint of the helical conduit is blocked whereas the corresponding aperture at the opposite endpoint remains open, allowing fluid to exhaust. The turbine further comprises, extending to the outer periphery of the helix, a stratum 20 having the same height as the pitch 17 of the helix and comprising a series of valvular channels 19 through which fluid is admitted to the turbine, positioned tangentially to the circumference of the helix and precisely shaped to allow unidirectional inward

flow. Two intertwined helices (31,32, fig.5) may be used. Longitudinal fins (33, fig.5) may be provided on the external surface of the turbine, eg in a wind turbine. When mounted vertically undersea, the turbine (81, fig.8) pumps water up to the surface for potential energy storage.



6) Family number: 56388551 (US2015226065A)

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Title:	TURBINE COMPRISING AT LEAST TWO HOLLOW 3D WHEELS NESTED INSIDE ONE ANOTHER				
Priority:	FR20120002880 20121029		EP20130782696 20131023		WO2013EP72133 20131023
Family:	Publication number	Publication date	Application number	Application date	
	AU2013339570 AA	20140508	AU20130339570	20131023	
	AU2013339570 BB	20161201	AU20130339570	20131023	
	BR112014025887	20170620	BR20141125887	20131023	
A2	BR112014025887	20170725	BR20141125887	20131023	
A8	CA2875809 AA	20141204	CA20132875809	20131023	
	CN104364516 A	20150218	CN201380029141	20131023	
	CN104364516 B	20170929	CN201380029141	20131023	
	DE602013025531	20171005	DE201360025531T	20131023	
D1	EP2912306 A1	20150902	EP20130782696	20131023	
	EP2912306 B1	20170823	EP20130782696	20131023	
	ES2647601 T3	20171222	ES20130782696T	20131023	
	FR2997460 A1	20140502	FR20120002880	20121029	
	FR2997460 B1	20141128	FR20120002880	20121029	
	HK1206409 A1	20160108	HK20150106901	20150720	
	HK1206409 B	20180727	HK20150106901	20150720	
	IN09742DN2014 A	20150731	IN2014DN09742	20141118	
	JP2015532964 T2	20151116	JP20150538426T	20131023	
	PT2912306 T	20171106	PT20130782696T	20131023	
	RU2014143929 A	20160527	RU20140143929	20131023	
	RU2649163 C2	20180330	RU20140143929	20131023	
	US2015226065 AA	20150813	US20130411569	20131023	

WO14067823 A120140508WO2013EP7213320131023

ZA201408465 A20160127ZA2014000846520141118

Probable Assignee: CARPYZ SAS

Assignee(s):(std): CARPYS SAS ; CARPYZ ; CARPYZ SAS ; KARPISZ SAS

Assignee(s): CARPYZ SAS215 RUE JEAN JACQUES ROUSSEAU-92136ISSY LES MOULINEAUXFR ; CARROUSET GABRIELLE ; CARROUSET NICOLE ; CARROUSET PIERRE

Inventor(s):(std): CARROUSET GABRIELLE ; CARROUSET NICOLE ; CARROUSET PIERRE ; GABRIELLE CARROUSET ; PIERRE CARROUSET ; NICOLE CARROUSET ; KARRUSET PER ; KARRUSET NIKOL ; KARRUSET GABRIEL

Inventor(s): CARROUSET PIERREFR ; CARROUSET NICOLEFR ; CARROUSET GABRIELLEFR

Agent(s): DENNEMEYER AND ASSOCIATES; HILL AND SCHUMACHER; DENNEMEYER AND ASSOCIATES SA; ELZABURU SLP ELZABURU SLP; CARPYZ; BARRON AND YOUNG INTELLECTUAL PROPERTY LTD; PATENTNOMU POVERENNOMU YAVKINOJ EV

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

International class (IPC 8-9): F01D F01D1/02 F03B F03B1/00 F03B3/12 F03B3/18 F03D F03D1/04 F03D1/06 F03D11/00 F03D11/02 (Advanced/Invention); F01D F03B F03D (Subclass/Invention)

CPC: F03D1/0608 F03D1/0633 F03B1/00 F05B2240/121 Y02E10/721 Y02E10/223 F01D1/026 F03D80/70 F03D1/04

US class: 416/20R

[Classification Explorer](#)

Cited documents: US5120194 A, US5120194 A, US2361676 A, US2009110554 AA, SU1746051 A1, RU2221163 C2, MD3892 G2, JP2007538189 T2, FR2507252 A1, FR2507252 A1, CN86100554 A, CN1046787 A, CN102369353 A, CN101932827 A, CN101790640 A,

Forward Citations: WO18202738,

Abstract:
Firstly, the turbines direct the fluid tangentially through channels provided around a stationary hollow wheel and the jets are received in buckets in a rotating wheel surrounding the stationary wheel, operating on the Pelton wheel principle. This novel method can be used to construct turbine assemblies that can recover energy from moving fluids, like wind turbines and marine turbines, using a minimum capture surface and obtaining a maximum yield.

