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Concept 1: Concept 2: Concept 3:

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CONCEPT 1: Concept 1

EN - {electric_power_generation or electric_energy_generation} or {electric_power_generating or electric_energy_generating} or {electric_power_generator or electric_energy_generator}

DE -

FR -

CONCEPT 2: Concept 2

EN - solar or photovoltaic

DE -

FR -

CONCEPT 3: Concept 3

EN - motor

DE -

FR -

CONCEPT 4: Concept 4

EN - {planetary or epicyclic} and {gear or gear train}

DE -

FR -

CONCEPT 5: Concept 5

EN - generator

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Databases ON SS Status Results Query View... Comment

Databases	SS	Status	Results	Query	View...	Comment
1			0	ELECTRIC POWER GENERATION OR ELECTRIC ENERGY GENERATION OR ELECTRIC P...		No result (Direct Search) Concept 1: Con...
2			935139	SOLAR OR PHOTOVOLTAIC		(Direct Search) Concept 2: Concept 2
3			6435807	MOTOR		(Direct Search) Concept 3: Concept 3
4			0	PLANETARY GEAR OR PLANETARY GEARS		No result (Direct Search) Concept 4: Con...
5			291281	GENERATOR		(Direct Search) Concept 5: Concept 5
6			38304	{3 Faets} {1 AND 2 AND 3} OR {1 AND 2 AND 4} OR {1 AND 2 AND 5} OR {1 AND 3...		3 Faets: (Direct Search)
7			0	{4 Faets} {1 AND 2 AND 3 AND 4} OR {1 AND 2 AND 3 AND 5} OR {1 AND 2 AND 4...		4 Faets: No result (Direct Search)
8			0	{5 Faets} {1 AND 2 AND 3 AND 4 AND 5}		5 Faets: No result (Direct Search)
9			206407	{PLANETARY OR EPICYCLIC} AND {GEAR OR GEAR TRAIN}		(Direct Search) Concept 4: Concept 4
10			62963	{3 Faets} {1 AND 2 AND 3} OR {1 AND 2 AND 4} OR {1 AND 2 AND 5} OR {1 AND 3...		3 Faets: (Direct Search)
11			1458	{4 Faets} {1 AND 2 AND 3 AND 4} OR {1 AND 2 AND 3 AND 5} OR {1 AND 2 AND 4...		4 Faets: (Direct Search)
12			0	{5 Faets} {1 AND 2 AND 3 AND 4 AND 5}		5 Faets: No result (Direct Search)
13			0	{ELECTRIC POWER GENERATION OR ELECTRIC ENERGY GENERATION} OR {ELECTR...		No result (Direct Search) Concept 1: Con...
14			62963	{3 Faets} {13 AND 2 AND 3} OR {13 AND 2 AND 4} OR {13 AND 2 AND 5} OR {13 A...		3 Faets: (Direct Search)
15			1458	{4 Faets} {13 AND 2 AND 3 AND 4} OR {13 AND 2 AND 3 AND 5} OR {13 AND 2 A...		4 Faets: (Direct Search)
16			0	{5 Faets} {13 AND 2 AND 3 AND 4 AND 5}		5 Faets: No result (Direct Search)
17			40080	{ELECTRIC POWER GENERATION OR ELECTRIC ENERGY GENERATION} OR {ELECTR...		(Direct Search) Concept 1: Concept 1
18			77023	{2 Faets} {17 AND 2 AND 3} OR {17 AND 3 AND 4} OR {17 AND 2 AND 5} OR {17 A...		2 Faets: (Direct Search)
19			5013	{4 Faets} {17 AND 2 AND 3 AND 4} OR {17 AND 2 AND 3 AND 5} OR {17 AND 2 A...		4 Faets: (Direct Search)
20			147	{5 Faets} {17 AND 2 AND 3 AND 4 AND 5}		5 Faets: (Direct Search)

147 documents selected.

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US2017030326 US9912209

EPDOC/ EPO

PN - US2017030326 A1 20170202

PNFP - US9912209 B2 20180306

TI - (A1) RENEWABLE ENERGY MARINE HYDROKINETIC OR WIND TURBINE

(B2) Renewable energy marine hydrokinetic or wind turbine

AB - (A1 B2) Three controls, three variable assemblies, a hatch, and a variable torque and power generator (VT&PG), may be used independently and together to provide constant frequency and voltage output power and to increase the amount of output power generated with the same input water flow or wind speed. A three variable spur/helical assembly of sun and planetary sets is a mechanical three variable control and referred to herein as a Transgear assembly, simply Transgear. A hatch wraps around a waterwheel and may control the amount of water inlet to the system by opening and closing and may be controlled by Transgears and a VT&PG. Two Transgears may comprise a constant speed motor control and produce required frequency and voltage and be reduced in part count and complexity. The VT&PG of a marine hydrokinetic or wind power generator may be used as a low torque generator and a high power-rated generator in these applications and may generate more electric power than a conventional fixed power generator (the rotor axially aligned to overlap the stator in a conventional manner) over a wider input range.

CC1 - F03B13/264; F03B15/08; F03B15/12; F03B17/063; F03D3/002; F03D3/0436; H02K7/116; H02K7/183; F03D15/00

CCA - Y02E10/74; Y02E10/28; F05B2210/16; F05B2220/32; F05B2220/706; F05B2240/93; F05B2240/97; F05B2260/40311; F05B2260/404; F05B2270/101; F05B2270/32; Y10T74/18056; Y10T74/2101

CQA - F05B2210/11; F05B2210/12

PA - (A1 B2) DIFFERENTIAL DYNAMICS CORP [US]

IN - (A1 B2) HAN KYUNG SOO [US]

AP - US20161526755 20160916

100 Hatch

102 Waterwheel

103

110 Water Flow

101 Block

104 Gearbox and Mechanical Controls

105 To Generator

Jonathan History Trash BNS Print Print A Drawer 1 Drawer 2 Drawer 3 Drawer 4 Drawer 5 New

01	US2009021021	Q
02	US2016010620	Q
03	US2010270810	Q
04	CA2625019	Q
05	US2004237683	Q
06	EP2273112	Q
07	US2003222456	Q
08	US2011247351	Q
09	US2017030326	Q
10	US2017361712	Q