

Search history

Search pn=WO/2015/162043 (Results 1)

1:

Search [SP]: 1. a hydraulic installation for operating a hydraulic turbine, wherein sediment concentration in a water flow circulating through the installation is monitored, the hydraulic installation comprising: a pressure-reducing device and a primary sensor, wherein the pressure-reducing device is designed to create hydraulic resistance with internal flow speed less than 15 m/s as a function of an operating head in the hydraulic turbine in such a way that the primary sensor can be operated continuously, and wherein the primary sensor of the pressure-reducing device is adaptable to face minimal effects of silt erosion and to augment service life. 2. the hydraulic installation according to claim 1, wherein a discharge of the water flow entering the primary sensor is flowing at a rate between 2-l/min and 8-l/min. 3. the hydraulic installation according to claim 1, wherein a downstream segment from a valve to an outlet line has a hydraulic resistance that is lower than the pressure-reducing device to ensure low pressure operation of the primary sensor below 1 bar relative pressure. 4. the hydraulic installation according to claim 1, further comprising a primary calibrating device, wherein the primary sensor is provided with a reference value to be used for comparison matters and for establishing a content of sediment in the water flow. 5. the hydraulic installation according to claim 1, wherein the operating head in the hydraulic turbine is between 10-m and 2000-m. 6. the hydraulic installation according to claim 1, wherein the primary sensor is proximate to a main inlet valve at an axis of the hydraulic turbine. 7. the hydraulic installation according to claim 1, further comprising: a second sensor configured to measure sediment concentration in the water flow at a barrage or a dam and one of a pump or a second pressure reducing device, wherein the one of a pump or a second pressure reducing device is selected depending on site conditions to impart required flow and pressure at an inlet of the second sensor. 8. the hydraulic installation according to claim 7, further comprising a third sensor, a secondary pump and a calibrating device, wherein the third sensor, the secondary pump, and the calibrating device are all installed downstream at an outlet of the hydraulic turbine. 9. the hydraulic installation according to claim 1, wherein the pressure-reducing device comprises a probe configured to collect water from a penstock line at a similar speed to which the water flow is moving towards the hydraulic turbine. 10. the hydraulic installation according to claim 8, wherein the pressure-reducing device comprises a filter component having a filter screen with a pore size between 0.5-mm and 2 mm. 11. the hydraulic installation according to claim 1, wherein the pressure-reducing device comprises a tubing having a length in the range of 0.3-m to 30-m and an internal diameter in the range of 1.5-mm to 5.5-mm. 12. the hydraulic installation according to claim 11, wherein the tubing has a spiral shape. 13. the hydraulic installation according to claim 8, further comprising calibrating devices connected to the primary, secondary, and third sensors, wherein the calibrating devices are used to verify that the results of these sensors are consistent with predetermined values. 14. the hydraulic installation according to claim 13, wherein the sensors comprise ultrasound, time-of-flight, optics, laser, acoustic, conductivity, density, photo imaging, nuclear radiation, or coriolis mass flow sensors. 15. the hydraulic installation according to claim 13, wherein the sensors are configured to record continual data of sediment concentration in the water flow, and to output the continual data to a processor configured to automatically register continuous sediment concentration readings. 16. the hydraulic installation according to claim 2, wherein a downstream segment from a valve to an outlet line has a hydraulic resistance that is lower than the pressure-reducing device to ensure low pressure operation of the primary sensor below 1 bar relative pressure. (Results 0)

Search [SP]: hydraulic installation and method of operating such an installation the present invention relates to a hydraulic installation where sediment concentration in the water flow circulating through the cited installation is monitored continuously. according to the invention, the hydraulic installation comprises a pressure-reducing device and a primary sensor: the pressure reducing device decreases the pressure and discharge of upstream water flow, comprising sediments, allowing that the primary sensor can operate continuously measuring sediment concentration from the upstream water flow. the hydraulic installation also comprises a calibrating device, providing the primary sensor with a reference value to be used for comparison matters and for establishing the content of sediment in the water flow. (Results 17)

Search 3 and sediment (Results 7)

4:

Title: Method for operation of hydraulic turbine

Abstract: A process for operating a hydraulic machine, especially a hydro-turbine, includes the step of detecting an actual machine state during operation of the machine by ascertaining operating data. The ascertained operating data includes flow through the turbine (if present), effective and reactive power fed into the electric mains, guide vane opening, pressure before the machine and at the suction pipe exit, headwater level, and tailwater level. The method further includes the step of processing at least one state characteristic values of a first cavitation characteristic value (indicative of cavitation intensity), a second cavitation characteristic value (indicative of an abrupt rise in cavitation manifestations), vibration characteristic values, suction pipe pressure, sand concentration, air pressure, water temperature, and generator temperature (for example winding temperature). The method also includes the step of altering an operating point of the machine based on the at least one processed characteristic value to reduce cavitation and/or quiet running.

Classifications:

International (IPC 8-9): F03B11/04 F03B15/06

F03B15/16 (Advanced/Invention);

F03B11/00 F03B15/00 (Core/Invention)

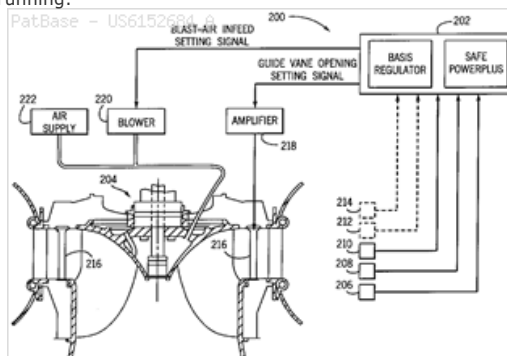
International (IPC 1-7): F01D17/00 F03B11/04 F03B15/00

F03B15/06 F03B15/16 F04D31/00

CPC: F03B11/04 F03B15/06 F03B15/16 Y02E10/226

European: F03B11/04 F03B15/06 F03B15/16 Y02E10/22D

US: 415/1 415/116 415/13



Family:

Publication number	Publication date	Application number	Application date
BRPI9802084 A	19990706	BR1998PI02084	19980512
DE19719406 C1	19981119	DE19971019406	19970512
EP0878624 A1	19981118	EP19980108023	19980502
US6152684 A	20001128	US19980063599	19980421

Priority:

DE19971019406 19970512

Probable Assignee: VOITH HYDRO INC

Assignee(s): (std): VOITH HYDRO GMBH AND CO KG ; VOITH HYDRO INC

Assignee(s): VOITH HYDRO GMBH AND CO KG 89522 HEIDENHEIM DE

Inventor(s): (std): KLEIN JOACHIM ; KOPF EBERHARD DR ; KOPF EBERHARD ; FERME JEAN MARC

Inventor(s): EBERHARD DR KOPF ; KLEIN JOACHIM 89518 HEIDENHEIM DE ; JOACHIM KLEIN ; JEAN MARC FERME ; FERME JEAN MARC 89522 HEIDENHEIM DE

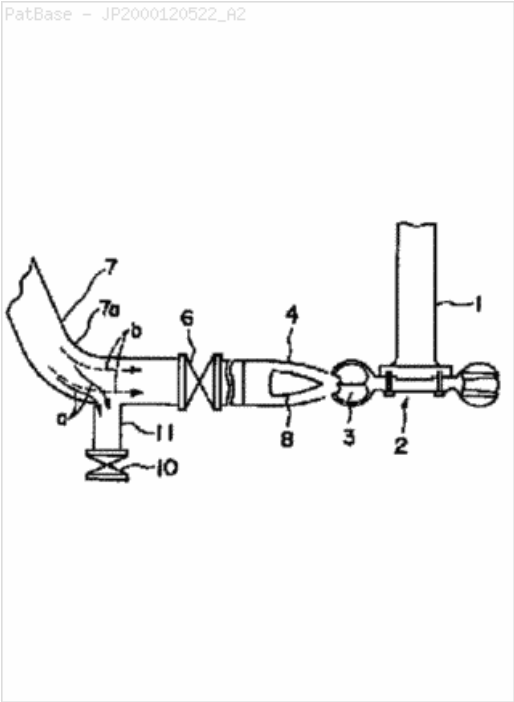
Designated states: AT CH FR IT LI

Title: **SEDIMENT** ABRASION PREVENTING DEVICE FOR PELTON WHEEL AND METHOD THEREOF

Abstract: PROBLEM TO BE SOLVED: To prevent **sediment** from mixing with jet water ejected from a nozzle pipe to a bucket by branching and leading out a leading pipe for separating and discharging **sediment** separated which is provided with a valve, from a penstock arranged between the vicinity of a penstock bending pipe part of an upstream side from an inlet valve of the penstock and an inlet valve. SOLUTION: In a penstock 7 arranged upstream from an inlet valve 6, a leading pipe 11 for separating and discharging **sediment** separated which is provided with a valve 10 is branched and led out from the vicinity part of a bending pipe part 7a and a just before part of an inlet valve 6. During operation of a water wheel, high pressure water flows through the penstock 7, the **sediment** whose specific gravity is larger than water does not flow in a main water flow direction (b) in the bending pipe part 7a, it flows in a direction (a) of the leading pipe 11, and it is accumulated. During stop of the water wheel, the **sediment** flows to the leading pipe 11. The accumulated **sediment** is discharged to the outside of the leading pipe 11 by opening the valve 10. It is thus possible to prevent the **sediment** from mixing with jet water ejected from the nozzle pipe 4 to a bucket 3, and it is also possible to prevent wasteful consumption of a liner 2 caused by the **sediment**.

Classifications:

International (IPC 8-9): E02B9/06 F03B1/00 F03B1/04 F03B11/08 F03B15/04 (Advanced/Invention); E02B9/00 F03B1/00 F03B11/00 F03B15/00 (Core/Invention)
International (IPC 1-7): E02B9/06 F03B1/00 F03B11/08
CPC: Y02E10/22 Y02E10/223 Y02E10/226
European: Y02E10/22 Y02E10/22B Y02E10/22D



Family:

Publication number	Publication date	Application number	Application date
JP2000120522 A2	20000425	JP19980291018	19981013
JP2007198388 A2	20070809	JP20070082233	20070327
JP4653774 B2	20110316	JP20070082233	20070327

Priority:

JP19980291018 19981013 JP20070082233 20070327

Probable Assignee:

TOSHIBA CORP

Assignee(s): (std):

TOSHIBA CORP

Assignee(s):

TOSHIBA KK ; KABUSHIKI KAISHA TOSHIBA

Inventor(s): (std):

IWAKAWA MITSUO

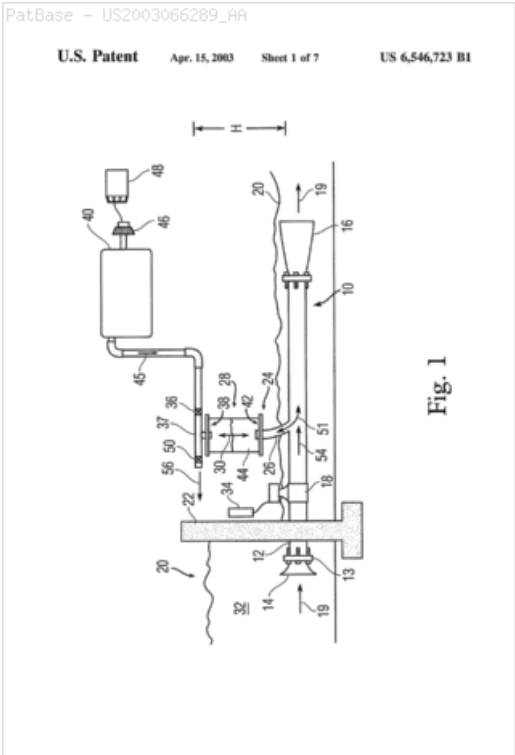
Agent(s):

NAGAI HIROSHI

Title: HYDROPOWER CONVERSION SYSTEM

Abstract: A hydropower conversion system is provided which uses a hydraulic gradient to accelerate water in a drive pipe. A valve is disposed in drive pipe to interrupt the flow of water and thus create a temporary negative pressure within the drive pipe. A negative pressure relief device with a riser section is coupled to the drive pipe and is adapted to pull air but not water into the riser section when under negative pressure. A pneumatic device such as a power turbine is coupled to the negative pressure relief device.

Classifications:
International (IPC 8-9): F03B13/00 F03B13/08 F04F1/02 (Advanced/Invention); F03B13/00 F04F1/00 (Core/Invention)
International (IPC 1-7): F16D31/02
CPC: F03B13/00 F03B13/086 F04F1/02 Y02E10/22
European: F03B13/00 F03B13/08C F04F1/02 Y02E10/22
US: 60/398



Family:

Publication number	Publication date	Application number	Application date
US2003066289 AA	20030410	US20010971448	20011009
US6546723 BA	20030415	US20010971448	20011009

Priority:

US20010971448 20011009

Probable Assignee: US NAVY

Assignee(s): (std): US NAVY

Assignee(s): WATTEN BARNABY JUDE ; INTERIOR US SECRETARY ; INTERIOR US SECRETARY BRANCH OF PROCUREMENT ; PALMISANO ANGELO W ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE NAVY

Inventor(s): (std): PALMISANO ANGELO W ; WATTEN BARNABY JUDE

Title: Hydraulic installation and method of controlling such an installation

Abstract: The installation (1) has test tubes and a nozzle tip representing a part of a wheel (2) and a distributor (61) of a machine i.e. Francis turbine (1), and supplying units supplying a portion of a forced water flow (E) towards the tubes and the nozzle. Measuring devices measure abrasion wear of the tubes and the nozzle. Evaluating devices evaluate the wear of the tubes and the nozzle and deliver abrasion wear evaluation signals (A100B, S100A, S100C, S100D, S230, S330) of the wheel and the distributor to a control unit (10) during functioning of the installation. An independent claim is also included for a method for controlling a hydraulic installation.

Classifications:

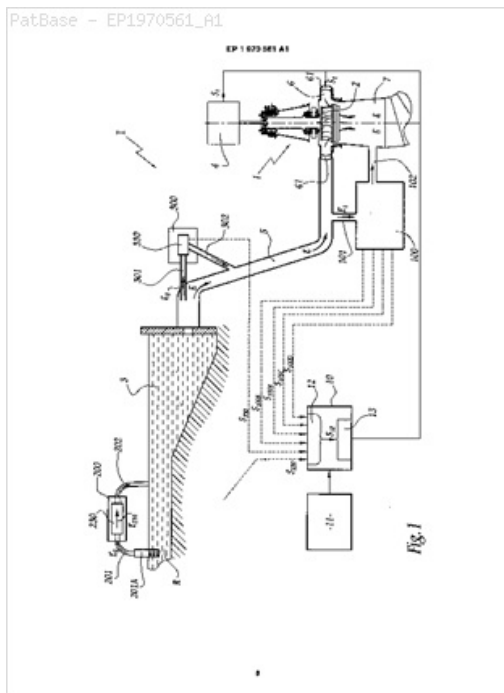
International (IPC 8-9): E02B1/00 E02B9/00 F03B1/00 F03B11/00 F03B13/08 F03B15/06 F03B15/22 F04B1/00 F16P7/00

G05D5/00 (Advanced/Invention);
F03B1/00 F03B11/00 (Core/Invention)

International (IPC 1-7): F04B1/00

CPC: F03B11/008 F03B15/00 F05B2260/80 Y02E10/226

European: F03B11/00F F03B15/00



Family:

Publication number	Publication date	Application number	Application date
AT449908 E	20091215	AT20080356039T	20080311
BRPI0800643 A	20081104	BR2008PI00643	20080312
CL2008000706 A1	20080922	CL20080000706	20080310
CL50688 B	20150218	CL20080000706	20080310
CN101270719 A	20080924	CN200810095160	20080311
CN101270719 B	20130424	CN200810095160	20080311
DE602008000311 D1	20100107	DE200860000311T	20080311
EP1970561 A1	20080917	EP20080356039	20080311
EP1970561 B1	20091125	EP20080356039	20080311
FR2913730 A1	20080919	FR20070001762	20070312
IN00614DE2008 A	20080919	IN2008DE00614	20080311
IN283766 B	20170602	IN2008DE00614	20080311
PE18632009 A1	20100116	PE20080000449	20080310

Priority:

FR20070001762 20070312

Probable Assignee: ALSTOM SA

Assignee(s): (std): ALSTOM HYDRO FRANCE ; ALSTOM SA ; ALSTOM TECHNOLOGY LTD

Assignee(s): ALSTOM RENEWABLE TECHNOLOGIES

Inventor(s): (std): PAVILLET JOSEPH EMILE ; PAVILLET ROBERT JOSEPH EMILE ; FERNAND BOUVET YVES ; EMILE PAVILLET ROBERT JOSEPH ; PAVILLER ROBERT JOSEPH EMILE ; BOUVET YVES FERNAND ; BOUVET FERNAND ; BOUVET YVES FERNAND PAVILLET R

Inventor(s): BOUVET YVES FERNAND PAVILLET ROBERT JOSEPH EMILE ; YVES FERNAND BOUVET ; ROBERT JOSEPH EMILE PAVILLET

Agent(s): ESTUDIO FEDERICO VILLASECA Y COMPANIA; MYON GERARD JEAN PIERRE

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

Title: SYSTEM FOR DECONTAMINATING WATER AND GENERATING WATER VAPOR

Abstract: A system and method for decontaminating water and generating water vapor includes introducing contaminated water in to a vessel. The water is moved through a series of rotating trays alternately separated by stationary baffles so as to swirl and heat the water to effect the vaporization thereof to produce a vapor having at least some of the contaminants separated therefrom. The vapor is removed from the vessel for condensing apart from the separated contaminants and the remaining water. The vapor may be passed through a turbine connected to an electric generator. Sensors in a controller may be employed to adjust the speed of rotation of the trays or water input into the vessel in response to the sensed conditions. The treated water may be recirculated and reprocessed through the vessel to increase the purification thereof.

Classifications:

International (IPC 8-9): B01D B01D1/00 B01D1/06 B01D1/22 B01D1/24 B01D3/00 B01D3/08 B01D3/30 B01D3/42 B01D5/00 C02F1/00 C02F1/04 C02F1/06 C02F1/08 C02F1/38 C02F103/00 C2F1/06 F01K17/00 F02C1/00 F03B13/00 F22B3/06 F28B3/08 F28B9/08 (Advanced/Invention); B01D1/22 B01D3/08 C02F1/06 C02F1/08 C02F1/18 C02F103/00 C02F103/08 (Advanced/Non-invention); B01D1/00 B01D3/00 B01D3/42 C02F1/04 F01K17/00 F02C1/00 (Core/Invention); B01D C02F (Subclass/Invention)

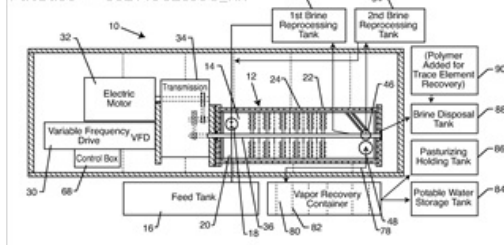
CPC: C02F1/043 Y10S159/901 Y10S159/39 B01D1/0082 B01D1/225 C02F1/048 C02F1/08 C02F1/18 C02F2103/08 C02F2209/02

C02F2209/42 F22B3/06 B01D1/06 Y02W10/37 B01D1/223 B01D3/08 B01D2221/08 B01D1/228 B01D1/24 F03B13/00 C02F2209/005 C02F2209/40 C02F1/06 B01D3/30 C02F1/38 C02F1/04 C02F2209/03 C02F2209/20 B01D3/10 F03G7/005 F28B3/08 F28B9/08 F28D11/02 F28D2021/0063 F28D2021/0064 F01K27/02 Y02A20/109 Y02A20/128 B01D3/42

European: B01D1/22D2A C02F1/04Z C02F1/08 F22B3/06 M02F1/18 M02F103/08 M02F209/02 M02F209/42

US: 1/1 159/44 159/47.1 159/47.3 159/6.1 159/6.3 159/901 159/DIG.39 202/160 202/175 202/182 202/185.1 202/185.100S 202/197 202/202 202/238 202/83 202/83S 203/1 203/10 203/10S 203/11 203/1S 203/2 203/2S 203/3 203/3S 203/40 203/98 203/DIG.17 210/143 210/167.01 210/774 210/87 261/109 261/110 261/113 60/639 60/648 60/648P 60/650 60/650S 60/679

PatBase - US2009313996_AA



Family:

Publication number	Publication date	Application number	Application date
AU2009262287 AA	20091230	AU20090262287	20090623
AU2009262287 BB	20140925	AU20090262287	20090623
AU2013280863 AA	20140103	AU20130280863	20130619
AU2013280863 BB	20171019	AU20130280863	20130619
BR112014032485 A2	20170627	BR20141132485	20130619
BRPI0914252 A2	20151103	BR2009PI14252	20090623
CA2726911 AA	20091230	CA20092726911	20090623
CA2726911 C	20160517	CA20092726911	20090623
CA2877867 AA	20141223	CA20132877867	20130619
CA2877867 C	20160531	CA20132877867	20130619
CL2010001542 A1	20110506	CL20100001542	20101223
CL2014003533 A1	20150327	CL20140003533	20141226
CL53849 B	20170127	CL20100001542	20101223
CN102065964 A	20110518	CN200980122385	20090623
CN102065964 B	20131106	CN200980122385	20090623
CN104602777 A	20150506	CN201380045258	20130619
CN104602777 B	20170301	CN201380045258	20130619
CO6331312 A2	20111020	CO20100164250	20101229
CO7240427 A2	20150417	CO20150016155	20150127
EA018631 B1	20130930	EA20100001784	20090623
EA201001784 A1	20110630	EA20100001784	20090623
EA201500063 A1	20151030	EA20150000063	20130619
EP2310102 A1	20110420	EP20090770879	20090623
EP2310102 A4	20120118	EP20090770879	20090623
EP2866912 A2	20150506	EP20130809131	20130619
EP2866912 A4	20160127	EP20130809131	20130619
HK1205040 A1	20151211	HK20150105491	20150610
IL209986 A0	20110228	IL20090209986	20090623
IL209986 A1	20150331	IL20090209986	20090623
IL231037 A0	20140331	IL20090231037	20090623
IL231037 A1	20160531	IL20090231037	20090623
IL236379 A0	20150226	IL20130236379	20130619
IL236379 A1	20160331	IL20140236379	20141221
IL244262 A0	20160421	IL20130244262	20130619
IL244262 A1	20170131	IL20130244262	20130619
IN03107KN2014 A	20150508	IN2014KN03107	20141230
IN04429KN2010 A	20111104	IN2010KN04429	20101124
IN281833 B	20170331	IN2010KN04429	20101124
IN281833 B	20170331	IN2010KN04429	20101125
KR101611632 B1	20160411	KR20107028835	20090623
KR101828136 B1	20180209	KR20157001890	20130619
KR20110027706 A	20110316	KR20107028835	20090623
KR20150037884 A	20150408	KR20157001890	20130619
MX2010013407 A1	20111011	MX20100013407	20090623
MX2015000140 A1	20150507	MX20150000140	20130619
US2009313996 AA	20091224	US20090488750	20090622
US2012267232 AA	20121025	US20120536581	20120628
US2013127074 AA	20130523	US20130744778	20130118
US2014090970 AA	20140403	US20130096334	20131204
US2016046504 AA	20160218	US20150923216	20151026

US8562791 BB	20131022	US20090488750	20090622
US8864949 BB	20141021	US20130744778	20130118
US9102545 BB	20150811	US20120536581	20120628
US9169132 BB	20151027	US20130096334	20131204
WO09158345 A1	20091230	WO2009US48292	20090623
WO14004217 A2	20140103	WO2013US46595	20130619
WO14004217 A3	20140626	WO2013US46595	20130619
WO17074476 A1	20170504	WO2015US62604	20151125

Priority:

US20080074743	20080623	US20080074743P	20080623	US20090488750	20090622
WO2009US48292	20090623	US20120536581	20120628	US20130744778	20130118
WO2013US46595	20130619	US20130096334	20131204	US20150923216	20151026

Probable Assignee: VERNO HOLDINGS LLC

Assignee(s): (std): JOHNSON DANA L ; RILEY JOHN D ; VERNO HOLDINGS LLC

Assignee(s): GLOBUS MEDICAL INC ; VERNO HOLDINGS ; LLC

Inventor(s): (std): DANA L JOHNSON ; JOHN D RILEY ; JOHNSON DANA L ; JOHNSON DANA L DL ; RILEY JOHN D ; RILEY JOHN D JD

Inventor(s): RILEY JOHN D JOHNSON DANA L ; RILEY JOHN ; JOHNSON DANA

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; SARGENT; SARGENT AND KRAHN; JUAN PABLO CADENA SARMIENTO; RICHTER JOACHIM; RGTH; WOLFF BREGMAN AND GOLLER; KELLY LOWRY AND KELLEY LLP; KELLY AND KELLEY LLP; KELLEY SCOTT W

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

Title: WAVE ELECTRO-HYDRODYNAMIC DEVICE

Abstract: A system for energy extraction from a fluid stream including a wave pump configured to pump a volume of liquid from a liquid source in response to wave motion of the liquid source; a charge source, fluidly connected to the volume of fluid, that emits a charged droplet of the volume of fluid into the fluid stream, the charged droplet having a first polarity; and an electrical isolation mechanism configured to selectively electrically isolate the charge source from the wave pump.

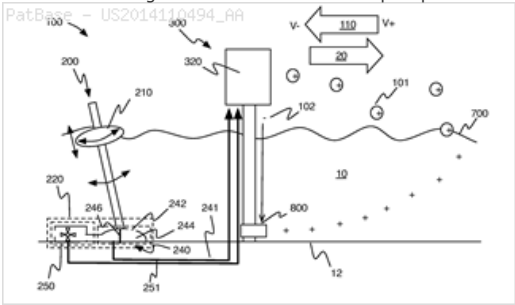
Classifications:

International (IPC 8-9): B05B5/025 F03B13/14 (Advanced/Invention)

CPC: F05B2260/408 F05B2260/42 F03B13/145 F03B13/182

B05B5/025 Y02E10/38 B05B5/0531 B05B5/1608

US: 239/3 239/690



Family:

Publication number	Publication date	Application number	Application date
US2014110494 AA	20140424	US20130138677	20131223
US2016368006 A9	20161222	US20130138677	20131223
WO14143341 A1	20140918	WO2013US77463	20131223

Priority:

US20090214852P 20090429	WO2010US33054 20100429	US20110264306 20111223
US20130782280P 20130314	US20130138677 20131223	

Probable Assignee: ACCIO ENERGY INC

Assignee(s): (std): ACCIO ENERGY INC

Inventor(s): (std): CARMEIN DAVID ; MILLS FRANCIS ; WHITE DAWN

Agent(s): SCHOX JEFFREY

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 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

Title: HYDRAULIC INSTALLATION AND METHOD OF OPERATING SUCH AN INSTALLATION

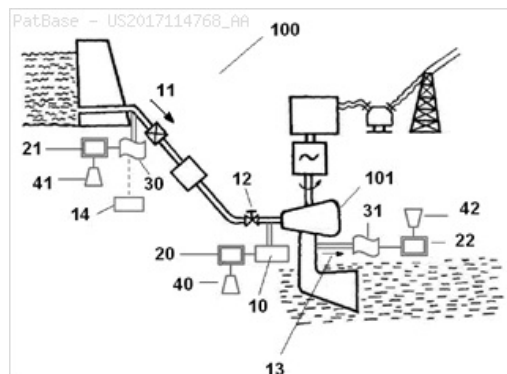
Abstract: The present invention relates to a hydraulic installation where **sediment** concentration in the water flow circulating through the cited installation is monitored continuously. According to the invention, the hydraulic installation comprises a pressure-reducing device and a primary sensor: the pressure reducing device decreases the pressure and discharge of upstream water flow, comprising **sediments**, allowing that the primary sensor can operate continuously measuring **sediment** concentration from the upstream water flow. The hydraulic installation also comprises a calibrating device, providing the primary sensor with a reference value to be used for comparison matters and for establishing the content of **sediment** in the water flow.

Classifications:

International (IPC 8-9): E02F F03B11/00 F03B11/08 F03B13/08 F03B15/00 F03B15/06 G01N15/06 (Advanced/Invention); F03B11/00 F03B15/00 (Core/Invention)

CPC: F03B15/00 Y02E10/226 F03B11/004 F03B15/06 F03B11/08 F03B13/08 G01N15/06 F05B2220/32 F03B11/008 F05B2260/63 F05B2260/80

US: 73/61.71



Family:

Publication number	Publication date	Application number	Application date
CL2016002666 A1	20170421	CL20160002666	20161020
CN106460772 A	20170222	CN201580021143	20150415
CO20160004405 A2	20170510	CO20160004405	20161123
EP3146198 A2	20170329	EP20150717156	20150415
IN01105DE2014 A	20151030	IN2014DE01105	20140423
MX2016013903 A1	20170926	MX20160013903	20150415
PE02402017 A1	20170330	PE20160001946	20150415
US2017114768 AA	20170427	US20150305192	20150415
WO15162043 A2	20151029	WO2015EP58169	20150415
WO15162043 A3	20151210	WO2015EP58169	20150415

Priority:

IN2014DE01105 20140423 WO2015EP58169 20150415

Probable Assignee: GENERAL ELECTRIC TECHNOLOGY GMBH

Assignee(s): (std): ALSTOM RENEWABLE TECH ; ALSTOM RENEWABLE TECHNOLOGIES ; GENERAL ELECTRIC TECHNOLOGY GMBH

Inventor(s): (std): BALCET NICHOLAS ; BALCET NICOLAS ; NICOLAS BALCET ; PANCHAL RAJESH ; PRIGENT SERGE ; RAJESH PANCHAL ; SERGE PRIGENT

Agent(s): ESTUDIO VILLASECA Y CIA; LUIS FELIPE CASTILLO GIBSON; BRANNEN JOSEPH WACLAW; RONDINARA LUCIO MARIA

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