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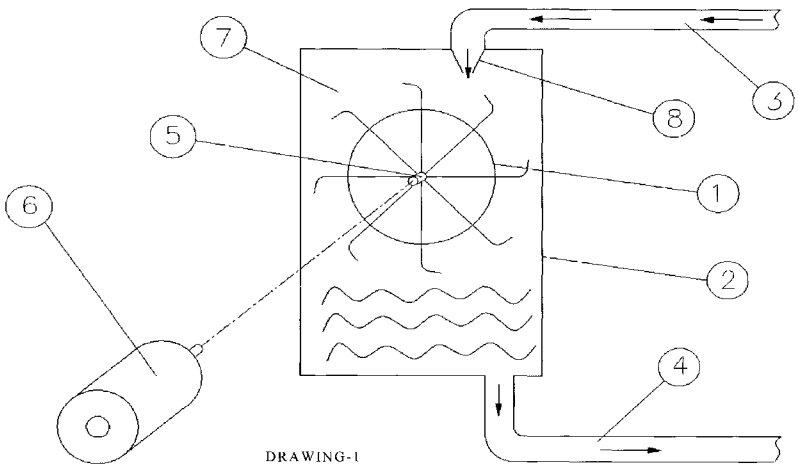
(54) **Title**: THE METHOD OF POWER EXTRACTION FROM PRESSURE



DRAWING-1

(57) **Abstract**: The method of invention consists of the extraction and utilization of potential energy as usable energy contained in pressurized liquid, air, and gas which is transferred via transfer lines such as pipes without losing the pressure values of inlet and outlet of the system.

DESCRIPTION

THE METHOD OF POWER EXTRACTION FROM PRESSURE

The method of invention consists of the extraction and utilization of potential energy as usable energy contained in pressurized liquid, air, and gas which is transferred via transfer lines such as pipes without losing the pressure values of inlet and outlet of the system.

Every pressurized liquid, air, and gas has a usable potential energy. In the current systems, the need for additional inlet pressure power increases at Inlet(3) in proportion to the amount of usable energy in the Turbine Shaft(5). Thanks to this invention this potential energy is converted into usable energy in the Turbine Shaft(5). Contrary to the current systems, during the utilization of this energy in the Turbine Shaft(5), the equality of Outlet(4) pressure power and Inlet(3) pressure power is preserved.

The sample system showing the operating principle of the invention consists of eight parts. These are; Turbine(1), Pressure Preservation Chamber(2), Inlet(3), Outlet(4), Turbine Shaft(5), alternators, generators, and loads (6) Pressure Preservation Chamber Spaces(7), and Pressure Direction Nozzle(8).

The operating principle of the invention is as follows: In order to generate mechanical energy, any or some of the pressurized liquid, air, and gas applied from Inlet(3) are directed to the Turbine(1) blades positioned in the Pressure Preservation Chamber(2) via Pressure Direction Nozzle(8). This mechanical energy generated in the Turbine(1) is transferred to the outside the system via the Turbine Shaft(5) and thus the generating of mechanical power necessary for any alternators, generators, and loads (6) is provided. The pressure power from

Inlet(3), after applied to the Turbine(1) inside the Pressure Preservation Chamber(2) whose internal pressure is preserved and which is kept closed, is transferred to the outside of the system from the Outlet(4) without losing its (inlet's) own pressure power.

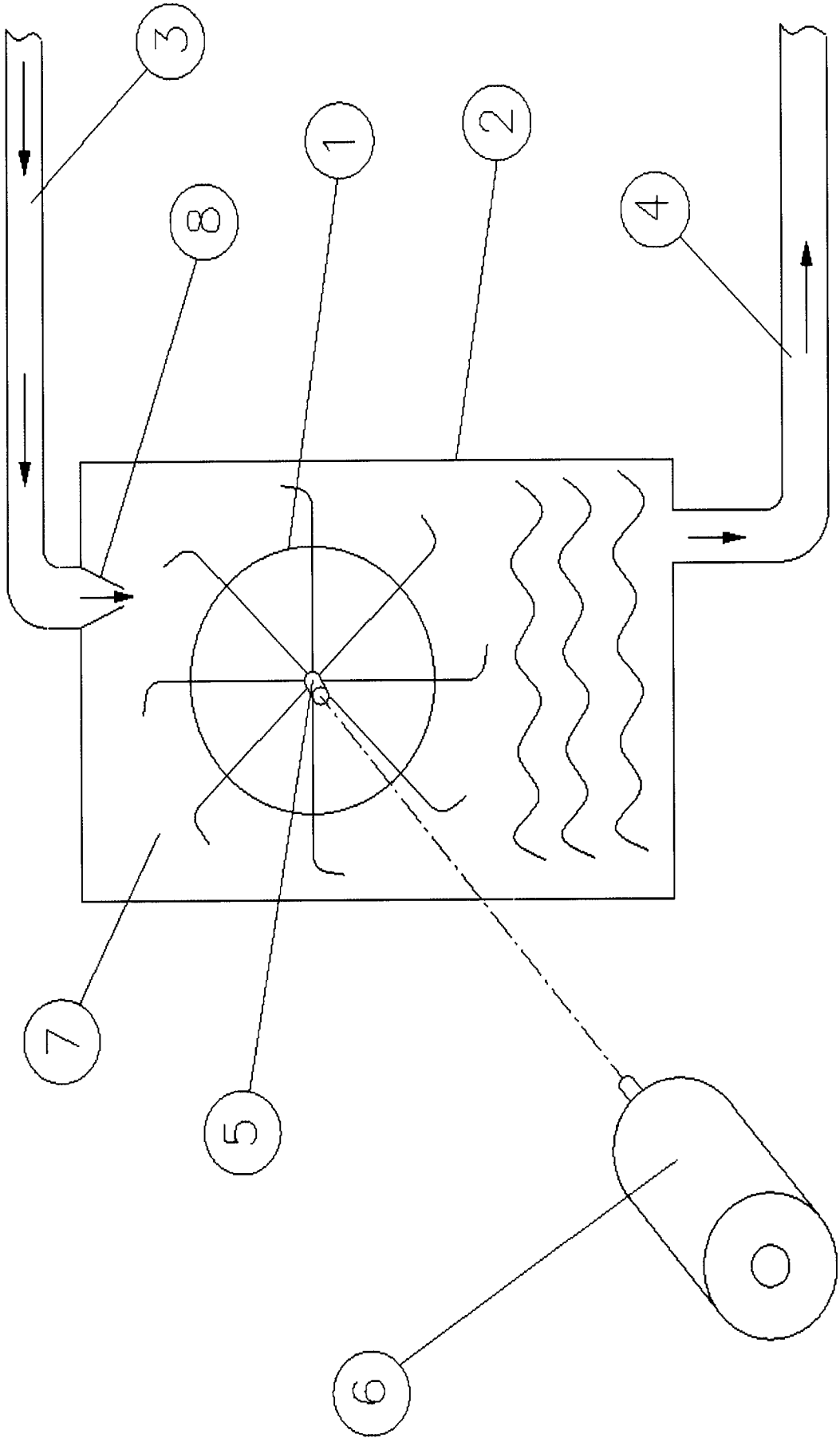
Since the turbine is positioned in the Pressure Preservation Chamber(2), the counter power applied to the Turbine(1) via the Turbine Shaft(5) by the alternators, generators, and loads (6) is not reflected back to the Inlet(3).

Therefore, while the pressure from Inlet(3) is transferred to the outside of the system without losing its pressure value at Outlet(4), the potential energy contained in this pressure power is extracted via the Turbine Shaft(5) as usable energy.

There are no Pressure Preservation Chamber(2) and spaces in the current available systems. As a result, the counter power of the alternators, generators, and loads (6) is reflected back to the Inlet(3) via the Turbine Shaft(5) and the Turbine(1). However, thanks to this invention, the counter power is not reflected back to the Inlet(3) since the Turbine(1) is positioned in the Pressure Preservation Chamber Spaces(7).

CLAIMS

1. The method of invention is related with the power extraction from pressure and the model system consists of Turbine(1), Pressure Preservation Chamber(2), Inlet(3), Outlet(4), Turbine Shaft(5), alternators, generators, and loads (6) Pressure Preservation Chamber Spaces(7), and Pressure Direction Nozzle(8).
2. According to the Claim – 1, the method of invention is related with the power extraction from pressure and has a feature of having a Pressure Preservation Chamber(2) whose internal pressure is preserved and which is kept closed.
3. According to the Claim – 1, the method of invention is related with the power extraction from pressure and has a feature of having a Turbine(1) positioned in the Pressure Preservation Chamber(2) in a free running format.
4. According to the Claim – 3, the method of invention is related with the power extraction from pressure and has a feature of not reflecting the counter power applied to the Turbine(1) via the Turbine Shaft(5) by the alternators, generators, and loads (6) back to the Inlet(3).
5. According to the Claim – 3, the method of invention is related with the power extraction from pressure and has a feature of transferring the pressure applied from Inlet(3) to the outside of the system via the Outlet(4) without losing its (inlet's) own pressure value.



DRAWING-1

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. F03B17/04
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
F03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2008/136191 A1 (BAARMAN DAVID W [US] ET AL) 12 June 2008 (2008-06-12) paragraphs [0012] - [0015], [0077]; figures 1-36	1-5 1-5
Y	DE 10 2007 060449 A1 (BOEHNKE KLAUS-DIETER [DE]) 18 June 2009 (2009-06-18) figure 5	1-5
A	DE 20 2005 019301 U1 (NIEMEYER JOERG [DE]; TOMIC MICHAEL [DE]) 26 October 2006 (2006-10-26) paragraph [0001]; figure 5	1-5
A	US 2010/308591 A1 (GODFREY CARL L [US]) 9 December 2010 (2010-12-09) paragraphs [0027], [0028]; figures 1,2	1-5

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

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"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
13 June 2012	20/06/2012

Name and mailing address of the ISA/	Authorized officer
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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