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Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Fee Payment	Remarks
1	202241020535	TEMP/E-1/21486/2022-CHE	1600	13670	FORM 1	Full	GRAVITY DRIVEN ELECTRICAL ENERGY GENERATION SYSTEM AND METHOD

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000947460	Online Bank Transfer	0504220018516	1600.00	1475001020000001

Total Amount : ₹ 1600.00

Amount in Words: Rupees One Thousand Six Hundred Only

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**FORM 1**  
**THE PATENTS ACT, 1970**  
**(39 of 1970)**  
**&**  
**THE PATENTS RULES, 2003**  
**APPLICATION FOR GRANT OF PATENT**  
**[See sections 7,54 & 135 and rule 20(1)]**

**(FOR OFFICE USE ONLY)**

**Application No.:** .....

**Filing Date:** .....

**Amount of Fee Paid:** .....

**CBR No.:** .....

**Signature:** .....

**1. APPLICANT(S):**

Sr.No.	Name	Nationality	Address	Country	State
1	ANNE VIJAYA VENKATA DEEPAK	India	504,RAMS ENCLAVE,54 KIRLAMPUDI LAYOUT, NEXT TO CLASSIC SERVISEAPTS, VIZAG, ANDHRA PRADESH - 530003	India	Andhra Pradesh

**2. INVENTOR(S):**

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**3. TITLE OF THE INVENTION: GRAVITY DRIVEN ELECTRICAL ENERGY GENERATION SYSTEM AND METHOD**

**4. ADDRESS FOR CORRESPONDENCE OF APPLICANT /  
 AUTHORISED PATENT AGENT IN INDIA:**

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**5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:**

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention
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**6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:**

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

**7. PARTICULARS FOR FILING DIVISIONAL APPLICATION**

Original (first) Application Number	Date of Filing of Original (first) Application
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**8. PARTICULARS FOR FILING PATENT OF ADDITION:**

Main Application / Patent Number:	Date of Filing of Main Application
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**9. DECLARATIONS:****(i) Declaration by the inventor(s)**

I/We ,ANNE VIJAYA VENKATA DEEPAK, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) of the inventor(s): .....

(c) Name(s): ANNE VIJAYA VENKATA DEEPAK

**(ii) Declaration by the applicant(s) in the convention country**

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) : .....

(c) Name(s) of the signatory: ANNE VIJAYA VENKATA DEEPAK

**(iii) Declaration by the applicant(s)**

- **The Provisional specification relating to the invention is filed with this application.**
- **I am/We are, in the possession of the above mentioned invention.**

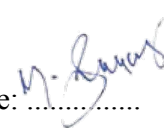
- **There is no lawful ground of objection to the grant of the Patent to me/us.**
- **I am/We are, the assignee or legal representative to true first inventors.**

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName
1	PROVISIONAL SPECIFICATION	PPA_Gravity Pump_01-4-2022.pdf
2	DRAWINGS	Dwgs_Gravity Pump_01-04-2022.pdf

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hereing are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this(Final Payment Date): -----

Signature:  .....

Name: Srinivas Maddipati

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**FORM 2**  
**PATENTS ACT, 1970**  
**(39 of 1970)**  
**&**  
**The Patents Rules, 2003**  
**COMPLETE SPECIFICATION**  
**(See section 10 and rule 13)**

**1. TITLE OF THE INVENTION**

**“GRAVITY DRIVEN ELECTRICAL ENERGY GENERATION SYSTEM  
AND METHOD”**

**2. APPLICANTS**

a) Name : ANNE VIJAYAVENKATADEEPAK  
b) Nationality : INDIAN  
c) Address : 504,RAMSENCLAVE,54  
KIRLAMPUDILAYOUT, NEXT  
TOCLASSICSERVICEAPTS, VIZAG,  
ANDHRAPRADESH - 530003

**3. PREAMBLE TO THE DESCRIPTION**

**COMPLETE**

The following specification particularly describes the invention and the manner in which it is to be performed.

## 4. DESCRIPTION

### Technical Field of the invention

- 5 The present invention generally relates to mechanical power generation system. More particularly, relates to gravity driven electrical energy generation system.

### Background of the invention

- 10 Energy is transferred to an object in order to move it. This transferring of energy can be in the form of force. The amount of energy transferred by the force to move an object is called work or work done. Thus, the relation between Work and Energy is direct. That is, the difference in the Kinetic energy of an object is work done by an object.

15

The principle of work and kinetic energy (also known as the work-energy theorem) states that the work done by the sum of all forces acting on a particle equals the change in the kinetic energy of the particle. This definition can be extended to rigid bodies by defining the work of the torque and rotational kinetic energy.

20

Even though work and energy are dimensionally same, energy constrained does work. Further energy is a scalar while work is a vector. So they are not the same thing. So when energy fields are constrained in certain ways, work can be extracted, we can call this as 'field effect principle'

25

By using 'field effect principle' three engineering machines are imagined by the inventor Mr.ANNE, Vijaya Venkata Deepak. They are:

1. Gravity pump: this is in mechanical engineering and uses the gravitational field. The inventor filed an Indian patent application No. 201741007494 on March 03,

2017, titled “POWER GENERATION FROM ENERGY STORED UNDER GRAVITY” which is hereby incorporated by reference;

2. Solar radio: this is in electronic engineering and uses the sun’s radiation particularly at infrared frequencies The inventor filed an Indian patent application no. 5 202141002132 on Jan 17, 2021 titled “SOLAR RADIO” which is hereby incorporated by reference;

3. INDUCTION GENERATOR: this is in electrical engineering and uses the fields of super strong permanent magnets.

10 In the concept of Gravity pump, the potential energy of a weight at a height can be converted into power is well known. An example of this fact is the well-known hydroelectric power plant. However, the use of this principle in remote, arid or semi-arid areas is often impractical or impossible due to the lack of a source of flowing water.

15 Therefore, a review of known systems reveals that there remains a need for a system that alleviates the problem of being dependent of weather conditions for generation of electrical energy, and which can be easily installed on a relatively modestly sized parcel of land.

20 It has been discovered that the problems left unanswered by known art including the cited document can be solved by an improved gravity driven electrical energy generation system.

25 **Brief Summary of the invention**

The following presents a simplified summary of the disclosure in order to provide a basic understanding to the reader. This summary is not an extensive overview of the disclosure and it does not identify key/critical elements of the invention or delineate

the scope of the invention. Its sole purpose is to present some concepts disclosed herein in a simplified form as a prelude to the more detailed description that is presented later.

- 5 It is an object of the invention to construct a system operated on gravity driven electrical energy generation system.

It is yet another object of the invention to produce electrical energy by constructing a aqueous solution recirculating closed circuit.

10

According to an aspect of the present invention, a Gravity driven electrical energy generation system is disclosed. The system comprises of a holding tank, a reference vent, an air pressure tank, a hydroelectric generator, a return tank, connecting pipes and a set of valves.

15

In accordance with an aspect of the present invention, the holding tank is composed of openings for filling, discharge and return of an aqueous solution by using earth's gravitational field.

- 20 In accordance with an aspect of the present invention, the said holding tank is built to comport a vacuum accumulated on emptying the holding tank.

In accordance with an aspect of the present invention, the said reference vent is provided for balancing a pressure that will be developed in the said holding tank.

25

In accordance with an aspect of the present invention, the lowest point of the holding tank be the highest point of the return tank.



In accordance with an aspect of the present invention, the said air pressure tank is used to pressurize the aqueous solution so that to recirculate to form a circuit.

5 In accordance with an aspect of the present invention, the set of valves are used to regulate the flow of aqueous solution. The series of pipes are used to connect the system in a closed loop.

10 Further objects, features, and advantages of the invention will be readily apparent from the following description of the preferred embodiments thereof, taken in conjunction with the accompanying drawings.

### **Brief Description of the Drawings**

15 The invention will be further understood from the following detailed description of a preferred embodiment taken in conjunction with an appended drawing, in which:

Fig. 1 illustrates the block diagram of the components in gravity driven electrical energy generation system, according to the exemplary embodiment of the present invention.

20

### **Detailed Description of the invention**

25 It is to be understood that the present disclosure is not limited in its application to the details of construction and the arrangement of components set forth in the following description or illustrated in the drawings. The present disclosure is capable of other embodiments and of being practiced or of being carried out in various ways. In addition, it is to be understood that the phraseology and terminology used herein is for the purpose of description and should not be regarded as limiting.

The use of “including”, “comprising” or “having” and variations thereof herein is meant to encompass the items listed thereafter and equivalents thereof as well as additional items. The terms “a” and “an” herein do not denote a limitation of quantity, but rather denote the presence of at least one of the referenced items. Further, the use of terms “first”, “second”, and “third”, and the like, herein do not denote any order, quantity, or importance, but rather are used to distinguish one element from another.

According to an exemplary embodiment of the present invention, construction and working of a gravity driven electrical energy generation system (100) is disclosed. The system comprises of a holding tank (102), a reference vent (104), an air pressure tank (106), a hydroelectric generator (108), a return tank (110), connecting pipes (114) and a set of valves (112).

In accordance to an exemplary embodiment of the present invention, the holding tank (102) is composed of openings for filling, discharge and return of an aqueous solution by using earth’s gravitational field. Therefore it is built to comport accumulated vacuum on emptying the holding tank (102).

In accordance to an exemplary embodiment of the present invention, the reference vent (104) provided for balancing the pressure that will be developed in the holding tank (102). The air pressure tank (106) is used to pressurize the aqueous solution so that it recirculates to form a circuit. The holding tank (102) is placed in such a way that the lowest point of the holding tank be the highest point of the return tank (110). This creates vacuum from the discharge of holding tank (102). The return tank (110) is used to allow the solution to return back to the circuit. The holding tank is completely free from air and sealed it air tight.

In accordance to an exemplary embodiment of the present invention, the set of valves (112) used to regulate the flow of aqueous solution. The series of pipes (114) are

connected to the system (100) in a closed loop and the hydroelectric generator (108) converts the energy of flowing aqueous solution into mechanical energy, and thereafter into electrical energy.

- 5 In accordance to an exemplary embodiment of the present invention, the holding tank (102) outlet valve is closed to allow tank (102) to fill up to the brim and sealed air tight. Now the valves of the reference vent (104), air pressure tank (106), hydro electric generator (108) and return tank (110) are turned to open position then the return tank (110) starts flooding the solution along with a small amount of air.
- 10 Gravitational force drives the solution from holding tank (102) causing accumulation of vacuum at the top of holding tank (102). The combination of air pressure in air tank (106) and the vacuum in the holding tank (102) recalls the solution to the holding tank (102) by opening discharge valve of return tank (110).
- 15 Now referring to the figures, Fig. 1 illustrates the block diagram of the components in gravity driven electrical energy generation system (100) comprising of the holding tank (102) connected to the reference vent (104) with the help of a valve (112) and the extension is connected to the air pressure tank (106). The hydro electric generator (108) is next connected to the return tank (110) with the help of valve (112). The
- 20 return tank is directly connected to the holding tank (102) having the valve (112) in between them. All the connections are made with the connections by series of pipes (114).

25

## 5. CLAIMS

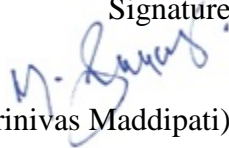
### I/We Claim:

1. A gravity driven electrical energy generation system (100), comprising of:
  - 5 a holding tank (102), a reference vent (104), an air pressure tank (106), a hydroelectric generator (108), a return tank (110), connecting pipes (114) and a set of valves (112);
  - wherein, the said holding tank (102) is composed of openings for filling, discharge and return of an aqueous solution by using earth's gravitational field;
  - 10 the said holding tank (102) is built to comport a vacuum accumulated on emptying the holding tank (102);
  - the said reference vent (104) is provided for balancing a pressure that will be developed in the said holding tank (102);
  - the said air pressure tank (106) is used to pressurize the aqueous solution so that to recirculate to form a circuit;
  - 15 the said return tank (110) is used to allow the solution to return back to the circuit;
  - the set of valves (112) are used to regulate the flow of aqueous solution;
  - the series of pipes (114) are used to connect the system (100) in a closed loop;
  - 20 and
  - the hydroelectric generator (108) converts the energy of flowing aqueous solution into mechanical energy, and thereafter into electrical energy.
2. The system (100) as claimed in claim 1, wherein the holding tank (102) outlet  
25 valve is closed to allow tank (102) to fill up to the brim and sealed air tight.
3. The system (100) as claimed in claim 1, the valves of the reference vent (104), air pressure tank (106), hydro electric generator (108) and return tank (110) are turned to open position.

4. The system (100) as claimed in claim 1, the return tank (110) starts flooding the solution with a small amount of air.
- 5 5. The system (100) as claimed in claim 1, the gravitational force drives the solution from holding tank (102) causing accumulation of vacuum at the top of holding tank (102).
6. The system (100) as claimed in claim 1, the air pressure in air tank (106) and the vacuum in the holding tank (102) recall the solution to the holding tank (102) by opening discharge valve of return tank (110).
- 10

#### 6. DATE AND SIGNATURE

15 Dated this 01<sup>st</sup> April, 2022

Signature  
  
(Mr. Srinivas Maddipati)  
IN/PA 3124  
Agent for applicant

20

25

**TITLE: “GRAVITY DRIVEN ELECTRICAL ENERGY GENERATION  
SYSTEM AND METHOD”**

**7. ABSTRACT**

5 A gravity driven electrical energy generation system (100) is constructed with a holding tank (102), a reference vent (104), an air pressure tank (106), a hydroelectric generator (108), a return tank (110), connecting pipes (114) and a set of valves (112). The holding tank (102) is composed of openings for filling, discharge and return of an aqueous solution by using earth’s gravitational field. The holding tank (102) is  
10 built to comport a vacuum accumulated on emptying the holding tank (102) and reference vent (104) is provided for balancing a pressure that will be developed in the said holding tank (102). The holding tank (102) is placed in such a way that its lowest point be the highest point of the return tank (110). The air pressure tank (106) is used to pressurize the aqueous solution so that to recirculate to form a circuit and return  
15 tank (110) is used to allow the solution to return back to the circuit. The set of valves (112) are used to regulate the flow of aqueous solution. The hydroelectric generator (108) converts the energy of flowing aqueous solution into mechanical energy, and thereafter into electrical energy.

20 Figure associated with Abstract is Fig. 1.

25

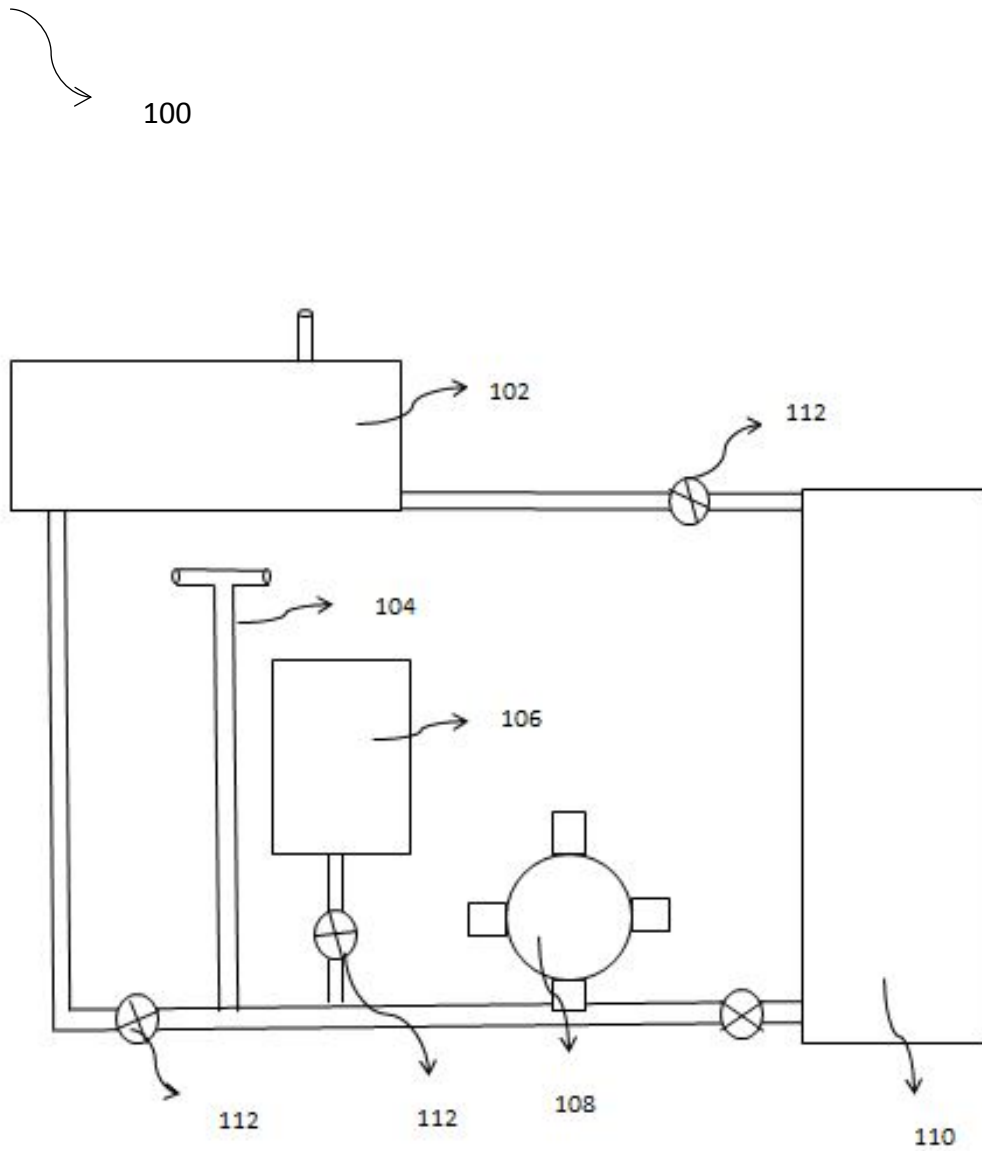


FIG. 1

Dated this 1st April 2022

Signature  
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