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Application Details

APPLICATION NUMBER	201941024532
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/06/2019
APPLICANT NAME	1 . INSTITUTE OF AERONAUTICAL ENGINEERING 2 . Dr. GANDIKOTA RAMU
TITLE OF INVENTION	STREETLIGHT SYSTEM AND METHOD FOR GENERATING EFFICIENT ENERGY USING RENEWABLE ENERGY SOURCES
FIELD OF INVENTION	MECHANICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	20/06/2019
PUBLICATION DATE (U/S 11A)	28/06/2019

Application Status

APPLICATION STATUS	Application Awaiting Examination
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Patent Search

Invention Title	STREETLIGHT SYSTEM AND METHOD FOR GENERATING EFFICIENT ENERGY USING RENEWABLE ENERGY SOURCES
Publication Number	26/2019
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Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H02J3/00

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Abstract:

STREETLIGHT SYSTEM AND METHOD FOR GENERATING EFFICIENT ENERGY USING RENEWABLE ENERGY SOURCES Exemplary embodiments of the present disclosure are directed towards a streetlight system, comprising: a solar panel 102 is positioned on a top of a pole 114, whereby the pole 114 is provided with a wind turbine 104, the solar panel 102 and the wind turbine 108 are configured to generate electrical energy, a battery box 110 is configured to store electrical energy generated by the solar panel 102 and the wind turbine 104, the wind turbine 104 comprises a plurality of rotational blades 116 configured to rotate continuously by a brushless direct-current (BLDC) motor 108, the battery box 110 is also configured to send electrical energy to an electrical power plant 303 via a direct-current (DC) controller 304 and a streetlight is secured to the pole 114 and is illuminated by electrical energy generated by the solar panel 102 and the wind turbine 104. FIG. 1

Complete Specification

Claims: We claim:

1. A streetlight system for generating efficient energy using renewable energy sources, comprising:

a solar panel 102 is positioned on a top of a pole 114, whereby the pole 114 is provided with a wind turbine 104, the solar panel 102 and the wind turbine 108 configured to generate electrical energy;

a battery box 110 is configured to store electrical energy generated by the solar panel 102 and the wind turbine 104, whereby the wind turbine 104 comprises a plurality of rotational blades 116 configured to rotate continuously by a brushless direct-current (BLDC) motor 108, the battery box 110 is also configured to send electrical energy to an electrical power plant 303 via a direct-current (DC) controller 304; and

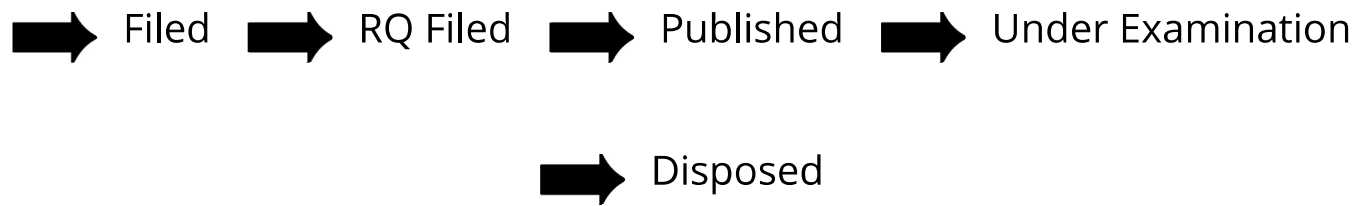
a streetlight is secured to the pole 114 and is illuminated by electrical energy generated by the solar panel 102 and the wind turbine 104.
2. The streetlight system as claimed in 1, wherein BLDC motor 108 is provided with an electromagnetic brake, a rotary transformer, and an encoder.
3. The streetlight system as claimed in 1, wherein the electrical power plant 303 transfers the electrical energy by internal supply to buildings 302.

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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):

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5	Dr. Y C A PADMANABHA REDDY	India	Assistant Professor, Dept of CSE, Madanapalle Institute of Technology & Science, Madanapalle-517325, India.
6	Dr. B VENKATESWARA RAO	India	Professor, Dept. of IT, Institute of Aeronautical Engineering, Dundigal Road, Dundigal, Hyderabad, Telangana-500043, India.
7	ELEMASETTY UDAYKIRAN	India	Dept. of EEE, Institute of Aeronautical Engineering, Dundigal Road, Dundigal, Hyderabad, Telangana-500043, India.

3. TITLE OF THE INVENTION: STREETLIGHT SYSTEM AND METHOD FOR GENERATING EFFICIENT ENERGY USING RENEWABLE ENERGY SOURCES

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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, Dr. GANDIKOTA RAMU, Dr. L V NARASIMHA PRASAD, Dr. D SHOBHA RANI, Dr. J. SOMASHEKAR, Dr. Y C A PADMANABHA REDDY, Dr. B VENKATESWARA RAO, ELEMASETTY UDAYKIRAN, 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): Dr. GANDIKOTA RAMU, Dr. L V NARASIMHA PRASAD, Dr. D SHOBHA RANI, Dr. J. SOMASHEKAR, Dr. Y C A PADMANABHA REDDY, Dr. B VENKATESWARA RAO, ELEMASETTY UDAYKIRAN

(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 singnatory: INSTITUTE OF AERONAUTICAL ENGINEERING, Dr. GANDIKOTA RAMU

(iii) Declaration by the applicant(s)

- The Complete specification relationg 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.

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName
1	REQUEST FOR EARLY PUBLICATION(FORM-9)	Form 9.pdf
2	REQUEST FOR EXAMINATION (FORM-18)	Form 18.pdf
3	FORM 1	Form 1.pdf
4	COMPLETE SPECIFICATION	Form 2.pdf
5	DRAWINGS	Drawings.pdf
6	STATEMENT OF UNDERTAKING (FORM 3)	Form 3.pdf
7	POWER OF AUTHORITY	POA.pdf
8	DECLARATION OF INVENTORSHIP (FORM 5)	Form 5.pdf

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

Dated this(Final Payment Date): 20/06/2019

Signature: 

Name: PUTTA GANESH
(IN/PA/2933)

To The Controller of Patents
The Patent office at CHENNAI