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(21) Application No.201621041894 A

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(54) Title of the invention : DEVICE AND METHOD FOR TRAFFIC DATA ACQUISITION AND THEIR CONTROL SYSTEM

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(71)Name of Applicant :

1)DR. JITEN SHAH

Address of Applicant :C-97, SMRUTI SOCIETY, NR.
SAHYOG SOCIETY, REFINERY ROAD, GORWA,
VADODARA-390016 Gujarat India

2)DR. DIPANKAR DEB

(72)Name of Inventor :

1)DR. JITEN SHAH

2)DR. DIPANKAR DEB

3)JASHVI MEHTA

4)DEEP PATEL

5)YASHWANT DADI

(57) Abstract :

The present invention relates to device and method for traffic data acquisition for analysis and collision impact reduction. The present invention broadly relates to real time traffic data collection, collision warning as well as impact reduction to increase the overall road safety for the road users. It will have a wide variety of data from the cameras, GPS, various sensors and this beefed-up database can be used for a variety of traffic applications.

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(12) PATENT APPLICATION PUBLICATION

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(54) Title of the invention : AUTOMATED SYSTEM FOR MITIGATED CLEANING OF SOLAR PANELS

(51) International classification	:B08B6/00, B08B7/00	(71)Name of Applicant : 1)DR. JITEN SHAH Address of Applicant :C-97, SMRUTI SOCIETY, NR. SAHYOG SOCIETY, REFINERY ROAD, GORWA, VADODARA-390016 Gujarat India
(31) Priority Document No	:NA	
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(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)AKSHAT VYAS
(87) International Publication No	: NA	2)DR. JITEN SHAH
(61) Patent of Addition to Application Number	:NA	3)MRUNAL PATEL
Filing Date	:NA	4)PARTH MODI
(62) Divisional to Application Number	:NA	5)JAY DAVE
Filing Date	:NA	6)HIMMAT SINGH
		7)DR. DIPANKAR DEB

(57) Abstract :

The present invented system is light weight and performs cleaning in lateral direction (parallel to panels) with the brushes placed in longitudinal direction. The reason for such an arrangement is to perform the cleaning task in less possible time. With no guide rails and water/liquid it is easy to maintain and reduces the cost of establishment. The bot gets automatically charged and also functions without use of water/liquid for an entire solar farm. The system can also work by adjusting their angle with sensor to travel uninterruptedly, where the solar panels are provided with solar tracking system to adjust their angle automatically according to the available solar irradiance.

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(12) PATENT APPLICATION PUBLICATION

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(54) Title of the invention : ROBOTIC DEVICE AND METHOD FOR AUTOMATED CLEANING OF WIND TURBINE BLADES

(51) International classification	:B08B1/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. DIPANKAR DEB
(32) Priority Date	:NA	Address of Applicant :A-5, RADHE BUNGLOWS, NEAR
(33) Name of priority country	:NA	KHOKHRA CIRCLE, MAINAGAR EAST, AHMEDABAD
(86) International Application No	:NA	Gujarat India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. DIPANKAR DEB
(61) Patent of Addition to Application Number	:NA	2)MRUNAL PATEL
Filing Date	:NA	3)HIMMAT SINGH
(62) Divisional to Application Number	:NA	4)DR. JITEN SHAH
Filing Date	:NA	

(57) Abstract :

The present invention is efficient and sustainable method for cleaning wind turbine blades in running condition so as to not affect the power generation during the cleaning operation. This system is composed of a light weight body and an efficient cleaning process, which includes separate robots for each blades with similar shape and weight. Each robot can clean a blade in a harmonious and parallel activity. Such a mechanized system would allow for uninterrupted power generation from the turbine while the cleaning process goes on unabated. Application of uniform pressure on the non-symmetric shape of the turbine blade is made possible by flexibility of suspension wheels used in robot. At the tip of the blade, the robot flips itself for reverse cleaning with the help of suspension wheels which now have perpendicular wheel-axis with respect to original position of the suspension wheels. Guidewheels help in smoothening the robotTMs movements.

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