GTU - Project Monitoring and Mentoring System

PSAR Details

PSAR No. : 20BE7_180163107002_2

Part - I : PATENT SEARCH TECHNIQUE USED

1. Patent Search Database Used	:	Google Patents
Web link of the Database	:	https://patents.google.com/
2. Keywords Used for Search	:	IOT ,PARKING,SYSTEM
3. Search String Used	:	IOT PARKING
4. Number of Results/Hits getting	:	9999

Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA

5. Category/Field of Invention	:	
6. Invention is Related to/Class of Invention	:	“Systems and Methods for Monitoring and Controlling Remote Devices
6a. IPC class of the studied patent	:	US 8,223,010 B2
7. Title of Invention	:	SYSTEMS AND METHODS FOR MONITORING VEHICLE PARKING
8. Patent No.	:	US 8,223,010 B2
9. Application No.	:	13/221,689
9a. Web link of the studied patent	:	https://patents.google.com/patent/US8223010B2/en?q=iot+parking&oq=iot+parking
10. Date of Filing/Application	:	Jul. 17, 2012
11. Priority Date	:	
12. Publication/Journal Number - (Issue No. of Journal in which Patent is published)	:	
13. Publication Date	:	
14. First Filled Country	:	

15. Also Published as

Country	Patent No
United States	13/221

16. Inventor

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18. Applicant for Patent is : Company

Part - III : TECHNICAL PART OF PATENTED INVENTION

19. Limitation of Prior Technology/Art :

-Limited Area Of Parking for vehicle

- Maintenance of different types of sensors

-There is a greater construction cost per space (but this may be offset by the chance for lesser land costs per space and the system manufacturers say that the operating and maintenance cost will be lower as compared to a conventional ramped parking structure).

20. Specific Problem Solved/Objective of Invention :

-User can view the real time status of parking area

-no need to waste their time to find free space for park their vehicle

21. Brief about Invention :

Embodiments of the present invention are generally directed to systems and methods of monitoring vehicle parking. An exemplary embodiment of the present invention provides a vehicle parking monitoring system that includes a parking space sensor enabled to detect the presence of at least one vehicle in a first parking space of a first parking area and a parking area transceiver in communication with the parking space sensor, the parking area transceiver configured to receive information from the parking space sensor and transmit the information to a gateway. The parking area transceiver is also configured to receive information from the gateway. The gateway is connected to a wide area network and configured to receive information from the parking area transceiver and transmit the information to the wide area network, the gateway is also configured to receive information from the wide area network and transmit the information to the parking area transceiver. Other aspects, features, and embodiments are also claimed and described.

22. Key Learning Points :

- How to connect or use IOT devices in parking system

- Better resource utilization

- how to connect devices to database and send or receive the data to or from databases

23. Summary of Invention :

Embodiments of the present invention are generally directed to systems and methods of monitoring vehicle parking. An exemplary embodiment of the present invention provides a vehicle parking monitoring system that includes a parking space sensor enabled to detect the presence of at least one vehicle in a first parking space of a first parking area and a parking area transceiver in communication with the parking space sensor, the parking area transceiver configured to receive information from the parking space sensor and transmit the information to a gateway. The parking area transceiver is also configured to receive information from the gateway. The gateway is connected to a wide area network and configured to receive information from the parking area transceiver and transmit the information to the wide area network, the gateway is also configured to receive information from the wide area network and transmit the information to the parking area transceiver. Other aspects, features, and embodiments are also claimed and described.

24. Number of Claims : 20

25. Patent Status : Granted Patent & In-force Patent

26. How much this invention is related with your IDP/UDP? : 71 to 90%

27. Do you have any idea to do anything around the said invention to improve it? :

NO