GTU - Project Monitoring and Mentoring System

PSAR Details

PSAR No. : 20BE7_180163107002_3

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	:	Motion ,Sensor,light
3. Search String Used	:	Motion Sensor
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	:	wireless lighting network of coordinated lighting devices and a bridge to provide connectivity to ex
6a. IPC class of the studied patent	:	H05B 37/02
7. Title of Invention	:	CLOUD CONNECTED MOTION SENSOR LIGHTING GRID
8. Patent No.	:	US 9,655,217 B2
9. Application No.	:	15/215,001
9a. Web link of the studied patent	:	https://patents.google.com/patent/US9655217B2/
10. Date of Filing/Application	:	May 16, 2017
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	15/215

16. Inventor

Name of Inventor	Address/City/Country of Inventor
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17. Applicant

Name of Applicant/Assignee	Address/City/Country of Applicant
Ring LLC	US

18. Applicant for Patent is : Company

Part - III : TECHNICAL PART OF PATENTED INVENTION

19. Limitation of Prior Technology/Art :

-Radio frequency at high power is harmful for humans (active type).
-Radio frequency in microwave range do not penetrate metal objects (active type).
-Passive motion sensors do not operate above temperature of 350C.

20. Specific Problem Solved/Objective of Invention :

The cloud connected motion sensor lighting grid may operate over a cloud via an Internet connection allowing the bridge to communicate with a server on the Internet that may implement software for communicating with the wireless lighting network and to capture data detected by motion sensors in the wireless lighting network.

21. Brief about Invention :

A cloud connected motion sensor lighting grid may include a wireless lighting network of coordinated lighting devices and a bridge to provide connectivity to external devices such as a cell phone, home automation system or security system. The cloud connected motion sensor lighting grid may be implemented locally with a cell phone communicating with the bridge for control, status and alerts. The cloud connected motion sensor lighting grid may operate over a cloud via an Internet connection allowing the bridge to communicate with a server on the Internet that may implement software for communicating with the wireless lighting network and to capture data detected by motion sensors in the wireless lighting network.

22. Key Learning Points :

-How Motion sensor work
-How to connect motion sensor with microprocessor
-How to connect Microprocessor with database and communicate with database

23. Summary of Invention :

A cloud connected motion sensor lighting grid may include a wireless lighting network of coordinated lighting devices and a bridge to provide connectivity to external devices such as a cell phone, home automation system or security system. The cloud connected motion sensor lighting grid may be implemented locally with a cell phone communicating with the bridge for control, status and alerts. The cloud connected motion sensor lighting grid may operate over a cloud via an Internet connection allowing the bridge to communicate with a server on the Internet that may implement software for communicating with the wireless lighting network and to capture data detected by motion sensors in the wireless lighting network.

24. Number of Claims : 24

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