



GUJARAT TECHNOLOGICAL UNIVERSITY  
(GTU)  
INNOVATION COUNCIL (GIC)  
Patent Search & Analysis Report  
(PSAR)



Date of Submission : 05/09/2017

Dear Ponda Karan Yogeshbhai,

Studied Patent Number for generation of PSAR : 17BE7\_150433116024\_1

### PART 1: PATENT SEARCH DATABASE USED

1. Patent Search Database used : Google Patents
- Web link of database : <https://patents.google.com/>
2. Keywords Used for Search : home automation, security, system
3. Search String Used : Home automation and security
4. Number of Results/Hits getting : 7014

### PART 2: BASIC DATA OF PATENTED INVENTION /BIBLIOGRAPHIC DATA

5. Category/ Field of Invention :
6. Invention is Related to/Class of Invention : Home automation
- 6 (a) : IPC class of the studied patent : G09B13/00, G05B19/42, G06K5/00, H04M1/64, G06F3/14, A61B5/00, H04M15/06
7. Title of Invention : Home gateway system for home automation and security
8. Patent No. : US 7912447 B2
9. Application Number : US 11/952,830
- 9 (a) : Web link of the studied patent : <http://www.google.co.in/patents/US7912447>
10. Date of Filing/Application (DD/MM/YYYY) : 12/7/2017
11. Priority Date (DD/MM/YYYY) : 12/7/2017
12. Publication/Journal Number :
13. Publication Date (DD/MM/YYYY) : 3/22/2011
14. First Filled Country : Albania :

**15. Also Published as**

Sr.No	Country Where Filled	Application No./Patent No.
1		

**16. Inventor/s Details.**

Sr.No	Name of Inventor	Address/City/Country of Inventor
1	Raymond Walden Bennett	USA

**17. Applicant/Assignee Details.**

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	Donald Bernard Liebrecht Barry James Sullivan	USA

**18. Applicant for Patent is** : Company

**PART 3: TECHNICAL PART OF PATENTED INVENTION****19. Limitation of Prior Technology / Art**

Increased security concerns many home owners have a home security system. Thus there exists a need for a home gateway system that can integrate the security and home automation features with the information services.

**20. Specific Problem Solved / Objective of Invention**

In addition, many home owners have a variety of machines for receiving information services, such as a cable receiver box, several telephones, an answering machine, a caller ID box, a home Local Area Network (LAN), and a dial up connection to the internet. The present invention relates to home automation and security systems and more particularly to a home gateway system for home automation and security. Increased security concerns many home owners have a home security system.

**21. Brief about Invention**

An example home gateway system includes a wireless local loop transceiver to establish a wireless local loop point to point link to a geographically separated base station coupled to a public switched telephone network; a home automation controller to communicate with the wireless local loop transceiver; a home security controller, integrated with the home automation controller, to communicate with the wireless local loop transceiver; and a security signal to be monitored by the home security controller, wherein a status of the security signal causes the home gateway system to send a message over the wireless local loop. A home gateway system for home automation and security is described.

**22. Key learning Points**

Unfortunately, only minimal integration has occurred between security systems and these information services. In addition, many home owners have a variety of machines for receiving information services, such as a cable receiver box, several telephones, an answering machine, a caller ID box, a home Local Area Network (LAN), and a dial up connection to the internet. A number of additional features could be provided to a home owner if these services were integrated.

Thus there exists a need for a home gateway system that can integrate the security and home automation features with the information services already found in many homes. Increased security concerns many home owners have a home security system.

**23. Summary of Invention**

A wireless local loop transceiver to establish a wireless local loop point to point link to a geographically separated base station coupled to a network. a home automation controller to communicate with the wireless local loop transceiver and to monitor a parameter associated with an appliance implemented at a building associated with the home automation controller, wherein the home automation controller is to cause communication of a first message via the wireless local loop transceiver to an address associated with a person associated with the building when the parameter exceeds an operating range defined to include values of the parameter corresponding to proper operation of the appliance; and a home security controller, integrated with the home automation controller, to communicate with the wireless local loop transceiver and to monitor a security signal, wherein a status of the security signal causes the wireless local loop transceiver to send a second message to a security entity.

**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? (Give short note in not more than 500 words)**

NO