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PSAR Details

PSAR No. : 17BE7_150433116024_5

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 : home automation,system,method
3. Search String Used : Home automation system and method
4. Number of Results/Hits getting : 6223

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

5. Category/Field of Invention :
6. Invention is Related to/Class of Invention : Home automation system
- 6a. IPC class of the studied patent : F41G7/22, G06Q20/10, G06Q50/00
7. Title of Invention : Home automation system and method
8. Patent No. : US6792319B1
9. Application No. : US09693299
- 9a. Web link of the studied patent : <https://patents.google.com/patent/US6792319B1>
10. Date of Filing/Application : 10/19/2000
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

We do not find any published data.

16. Inventor

Name of Inventor

Address/City/Country of Inventor

Brent Bilger

USA

17. Applicant

Name of Applicant/Assignee	Address/City/Country of Applicant
Brent Bilger	USA

18. Applicant for Patent is : Company

Part - III : TECHNICAL PART OF PATENTED INVENTION**19. Limitation of Prior Technology/Art :**

This implies that each installation gets very little knowledge from previous installations and that there is very little reproducibility among homes. The software used to operate controllers of home automation systems typically is not a knowledge-based program, but is rather a programming language that the home owner or installer uses to develop a customized program for each particular house. In this way, each sensor gets tested with "if/then" syntax and each controlled item becomes a control statement.

20. Specific Problem Solved/Objective of Invention :

The software used to operate controllers of home automation systems typically is not a knowledge-based program, but is rather a programming language that the home owner or installer uses to develop a customized program for each particular house. In this way, each sensor gets tested with "if/then" syntax and each controlled item becomes a control statement. This implies that each installation gets very little knowledge from previous installations and that there is very little reproducibility among homes.

21. Brief about Invention :

The controlled objects also have controlled object states, which are used by the central controller to control the controlled objects. A central controller communicates with the sensors and controlled objects over a communications network, where the sensors and controlled objects can be added to the system in a 'plug and play' manner. This control is accomplished by assigning each room to one of a plurality of room occupancy states, which dictate how the controlled objects are controlled by the central controller. A home automation system and method for automatic control of controlled devices throughout a home. A unique architecture of occupancy sensors includes entry/exit sensors for detecting movement through doorways that separate rooms in the home, room motion sensors for detecting room occupancy, spot sensors to detect occupancy of specific locations within the rooms, and house status sensors to detect the status of certain parameters of the home. The central controller controls the controlled objects in response to the entry/exit sensors, room motion sensors, spot sensors and the house status sensors.

22. Key Learning Points :

The home automation system of the present invention is for a home having a plurality of rooms separated by doorways, wherein each room has at least one of the doorways associated therewith. The home automation system includes a plurality of controlled objects for placement in rooms, a plurality of entry/exit sensors for placement at doorways to detect movement of a person therethrough, a plurality of room motion sensors for placement in the rooms to detect occupancy by a person therein, and a controller for controlling the controlled objects in response to both detected movement by the plurality of entry/exit sensors and detected occupancy by the plurality of room motion sensors.

23. Summary of Invention :

The method comprises the steps of controlling the controlled objects in response to detected movement by the plurality of entry/exit sensors, and controlling the controlled objects in response to detected occupancy by the plurality of room motion sensors. In another aspect of the present invention, a method of automated control is used for a plurality of controlled objects placed in a plurality of rooms in a home that are separated by doorways, wherein a plurality of entry/exit sensors are placed at the doorways to detect movement of a person therethrough and a plurality of room motion sensors are placed in the rooms to detect occupancy by a person therein, and wherein each room has at least one of the doorways associated therewith.

24. Number of Claims : 64

25. Patent Status : Expired Patent

26. How much this invention is related with your IDP/UDP? : < 70 %

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

No

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