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(57) Abstract :

ABSTRACT OF THE INVENTION Nowadays residential houses, offices and other buildings are modernized to make convenience for the people. This has been achieved through the integration of various mechanical, electrical, electronics and other associated components and the building automation. This automation of buildings incurred huge cost due to incorporation of industrial standard equipment and software which limits the usage of such facility in a common residential housing constructed with low/medium budget. The present invention addresses this issue without compromising the comfortableness of the residents with low budget. The present invention can be adopted for new construction and/or used in retrofit applications. A smart window comprises of sunlight sensor, controller, electric motor and adjusting mechanism for window blinds. The sunlight sensor sensing the amount of sunlight intensity accurately and sends the signal to the controller part. Based on the sunlight condition the controller directs the electric motor so as the adjusting mechanism which attached to the window blind is regulating the window blinds from completely closed position to completely open position and few intermediate spots automatically. These adjustments ensure the regulated sunlight entry in to the living room. The controller also has given the provision of set the required amount of sun light which desires by the users/residents in their rooms. Hence the invention provides the comfortable to the type of residents such as child, aged persons and so on with lower cost.

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