

**PATENT NO. 371088**  
**RFID BASED SMART LIBRARY SYSTEM**

**APPLICATION NO.** 4467/CHE/2012

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**ABSTRACT**

The embodiments herein relate to library automation and more particularly to an improved library automation system using Radio Frequency Identification (RFID) technology. Each content in the library is assigned with a unique code. Availability of a particular content in the library may be checked by entering the content particulars at a central control unit. Further if the content is available in the library location of the content may be found out using the RFID based mechanism. The system searches for specific content using the unique corresponding to that content and displays location of the content on a display screen associated with the central control unit. The system also provides a theft protection mechanism which identifies unauthorized traffic of contents to outside of the library and alerts the library staff.

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**CLAIM 1**

A method for automating content search in a library said method comprises transmitting a content Id corresponding to said content from a central control unit to a plurality of rack units in said library; transmitting said received content Id to a plurality of associated content units by each of said rack unit; identifying if said received content Id is same as own content Id by said plurality of content units; sending an acknowledgement message to corresponding rack unit by at least one of said plurality of content units on said received content Id being same as own content Id; sending at least one of a confirmation message and a location information to said central control unit by the rack unit upon receiving said acknowledgement message; and displaying said tracked location to a user.