

(54) Title of the invention : SMART SECURITY SYSTEM WITH SPEECH RECOGNITION

<p>(51) International classification :H04L0012280000, H04L0067100000, H04L0067510000, H04L0067109500, G09B0021000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Malla Reddy Engineering College Address of Applicant :Malla Reddy Engineering College Maisammaguda Dhulapally post Secunderabad Telangana Secunderabad ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)P.Kamalakar Address of Applicant :Associate Professor Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State:Telangana Email ID & Contact Number:kamaleec209@gmail.com&9985313683 Secunderabad ----- 2)M.Kondalu Address of Applicant :Professor Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State:Telangana Email ID & Contact Number:ceehod@mrec.ac.in @gmail.com&9966440958 Secunderabad ----- 3)M.Praveen Kumar Address of Applicant :Assistant Professor School of Engineering EEE Dept., Mallareddy University, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100.India- State:Telangana Email ID & Contact Number:praveen.mru2021@gmail.com & 7013916785 Secunderabad ----- 4)P.Mallikarjun Address of Applicant :Assistant Professor Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State:Telangana Email ID & Contact Number: pernemallikarjun@gmail.com & 8309515601 Secunderabad ----- 5)Pujari Vamshi Address of Applicant :Associate Professor Electrical and Electronics Engineering Dept., CMR Institute of technology, Medchal post, medchal (Post. Via. Kompally), Medchal-Malkajgiri-500100. State:Telangana Email ID & ContactNumber:pujarivamshi238@gmail.com & 8919809674 Secunderabad ----- 6)Gundu Venu Address of Applicant :Assistant Professor Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State:Telangana Email ID & Contact Number:gunduvenu@gmail.com&9966364288 Secunderabad ----- 7)P.Marimuthu Address of Applicant :Professor Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State:Telangana Email ID & Contact Number:spm.muthu78@gmail.com& 9043872893 Secunderabad ----- 8)V.Ganesh Kumar Address of Applicant :Associate Professor Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State:Telangana Email ID & ContactNumber:ganeshmtechepts@gmail.com & 9505563038 Secunderabad ----- 9)P.Lokaranjan Rao Address of Applicant :Assistant Professor Department of Electronics and Communication Engineering Avanthi Institute of Engineering and Technology Cherukupalli(v) Bhogapuram(M) Vizianagaram District-531162 Andhra pradesh Email ID & ContactNumber:lokaranjan007@gmail.com& 9441789219 Vizianagaram ----- 10)Pothula Jayaprada Address of Applicant :Assistant Professor Department of Physics, Maris Stella College Vijayawada NTR District-520008 Andhra Pradesh Email ID & ContactNumber:jayapradap16@gmail.com & 8688710150 Vijayawada ----- 11)S.Viswanadham Address of Applicant :Associate Professor Electrical and Electronics Engineering Dept., DMS SVH College of Engineering Pothepalli village , Machilipatnam Krishna District-521002 Andhra Pradesh Email ID & ContactNumber:viswanadh.prameela@gmail.com& 7013098412 Machilipatnam ----- 12)J.Uday Bhaskar Address of Applicant :Professor Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State:Telangana Email ID & ContactNumber:udayadisar@gmail.com & 8555054468 Secunderabad ----- 13)Ch.Giridhar Kumar Address of Applicant :Assistant Professor Civil Engineering Dept., College of Engineering, Vizianagaram, JNTU Gurajada Dwarapudi Vizianagaram-535003 Andhra pradesh Email ID & ContactNumber:giridhar45@gmail.com & 9966513883 Vizianagaram -----</p>
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(57) Abstract :
 ABSTRACT The evolution of Internet of Things (IoT) technologies has revolutionized the control and monitoring of household electronic devices, providing users with the convenience of seamless operation at their fingertips. This technological progress has significantly enhanced the overall comfort of individuals. Notably, elderly individuals and those with disabilities have found immense value in voice-assisted home automation systems, enabling them to effortlessly manage their devices through uncomplicated voice commands. However, the prevalent reliance on cloud-based services, exemplified by platforms like Google and Amazon, has introduced vulnerabilities to cyber threats within these systems. The necessity for a stable internet connection and a secure environment devoid of cyber-attacks becomes imperative for ensuring the reliable functionality of these systems. Unfortunately, the substandard quality of internet services in developing countries poses a barrier to accessing the full spectrum of services offered by these systems. Moreover, the absence of localization in voice assistants further impedes the widespread adoption of voice-assisted home automation systems in these regions. To tackle these challenges head-on, this research proposes the implementation of an offline home automation system. By eliminating the dependency on the internet and cloud services, this offline system can execute its fundamental functions securely, guarding against cyber-attacks and ensuring prompt responses. Beyond these core capabilities, the system introduces supplementary features such as power usage tracking and the optimization of interconnected devices. In doing so, it aims to provide a comprehensive solution that transcends the limitations posed by internet quality and localization issues, particularly in developing countries.

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