

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511089206 A

(19) INDIA

(22) Date of filing of Application :18/09/2025

(43) Publication Date : 10/10/2025

(54) Title of the invention : AUTOMATED HOME SAFETY SYSTEM

(51) International classification	:G08B0013190000, C12M0001000000, G08B0021200000, H04N0007180000, H01M0050271000	(71)Name of Applicant : 1)Chitkara University Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura Punjab India 2)Chitkara Innovation Incubator Foundation
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Komal Devi
(33) Name of priority country	:NA	2)Gurpreet Singh
(86) International Application No	:	3)Dr. Vijay Kumar
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A automated home safety system is comprising, a motorized door 101 installed at least at one entrance of a home, with multiple inflatable tubes 102 along the door 101 edges to provide a seal against water ingress, a flood gate 201 offer an additional safety layer, the flood gate comprises a frame 201a that holds a plurality of motorized panels 201b rotatably extended upon water detection, assisted by a cascading slider 201c to raise or lower panels 201b, an air inflator 103 in fluid communication with the tubes 102 inflates the tubes 102 when a liquid sensor embedded in the door 101 detects water, a debris removal arrangement 104 includes a slider 104a and an articulated paddle 104b to remove obstructions, activated by a camera 105 or PIR sensor detecting debris or pests, an extendable curved plate 106 provides added protection, a collapsible stair arrangement 107 with hinged flaps 107b ensures safe crossing.

No. of Pages : 21 No. of Claims : 10