

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211016476 A

(19) INDIA

(22) Date of filing of Application :24/03/2022

(43) Publication Date : 02/02/2024

(54) Title of the invention : SMART FIRE ESCAPING SYSTEM

(51) International classification	:G01P0015080000, B02C0019000000, A63G0031000000, A62B0001020000, B64D0001140000	(71)Name of Applicant : 1)Chandigarh Group of Colleges, Jhanjeri Address of Applicant :State Highway 12A Jhanjeri, Sahibzada, Ajit Singh Nagar, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Anikate Gupta
(32) Priority Date	:NA	2)Kuldeepak Saini
(33) Name of priority country	:NA	3)Arvind Kumar
(86) International Application No	:NA	4)Pardeep Kumar
Filing Date	:NA	5)Sarabjit Singh
(87) International Publication No	: NA	6)Kushdeep Singh
(61) Patent of Addition to Application Number	:NA	7)Vikram Singh
Filing Date	:NA	8)Yogendra Gupta
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A smart fire escaping system includes a network of sensors assembled in an enclosure/building and linked with microcontroller for identifying fire-breakout, buzzers alert/guide people regarding fire breakout, housing 1 having a lid 2 is activated to open and permit access to housing 1, a cavity 3 constructed under lid 2 and having a telescopic copper-tube 4 that outspreads from cavity 3 towards ground surface, cavity 3 integrated with a member 5 held on cavity 3 via latching flaps 6, a weight-sensor for identifying presence/absence of individual, flaps 6 retracts to allow free-fall of member 5 inside copper-tube 4, electromagnets 7 plotted on outer periphery of member 5 for slowing descending speed of member 5 to prevent impact and roller 8 wrapped with a rope 9 who's end portions are attached with member 5 that unwraps along free fall of member 5 and lift up member 5 to descend another individual.

No. of Pages : 14 No. of Claims : 4