

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014077 A

(19) INDIA

(22) Date of filing of Application :30/03/2021

(43) Publication Date : 16/12/2022

(54) Title of the invention : SECURED SELF-BALANCING SWINGING DEVICE

(51) International classification	:A45F0003220000, G06Q0020400000, A61B0005110000, A61B0005000000, G09B0019000000	(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 :
(32) Priority Date	:NA	1)Kuldeepak Saini
(33) Name of priority country	:NA	2)Taranveer Singh
(86) International Application No	:NA	3)Sumit Kumar
Filing Date	:NA	4)Anikate Gupta
(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 :

The present invention relates to a secured self-balancing swinging device, comprising, hammock 1 configured with fabric stretched between two strings 2 attached to anchor points 3, two motorized roller wrapped with strings 2 for maintaining resting element on fabric for relaxing purposes, artificial intelligence based imaging unit 4 for visual analysis based age detection and risky posture of user while utilizing resting element , multiple wireless sensors integrated in hammock 1 for detecting amount of tension exerted on strings 2 in relevance to weight and orientation of said user in said resting element microcontroller linked to imaging unit 4 and sensors for analyzing risk of misbalancing associated with user, acoustic levitators 5 for providing anti-gravity based levitation to user during unforeseen accidents. Ref. Figure 1

No. of Pages : 13 No. of Claims : 6