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(54) Title of the invention: SMART CATAPULT DEVICE

(51) International classification(31) Priority Document No(32) Priority Date	:A47C 7/50 :NA :NA	(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
(33) Name of priority country	:NA	(72)Name of Inventor:
(86) International Application No	:NA	1)Sonia Bhukra
Filing Date	:NA	2)Manbir Kaur
(87) International Publication No	: NA	3)Ashmeet kaur
(61) Patent of Addition to Application Number	:NA	4)Nandini
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(57) Abstract:

A smart catapult device, comprises of a frame 1 having an artificial intelligence enabled image capturing module 2 for determining a target point, an ultrasonic sensor 3 for detecting distance in between frame 1 and target point, a stretchable rope 4 coupled with a fabric 5 through a pair of telescopic rods 6 to extend or retract, an electromagnetically powered springs 7 for providing required stretching/loosening of rope 4, a weight sensor 8 for determining the weight of the object that needs to be launched, a holographic projector 9 for projecting a virtual pathway that needs to be followed by object, a speaker 10 for producing voice outputs regarding launching of object and retracts a pair of pneumatically actuated stopper 11 for allowing object to be properly launched, and a foot 12 and knee slots 13 for providing footrest and knee rest to user.

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