

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012527 A

(19) INDIA

(22) Date of filing of Application :23/03/2020

(43) Publication Date : 24/09/2021

(54) Title of the invention : ENERGY HARVESTING DEVICE

(51) International classification	:H02N0002180000, A61B0017000000, H01L0031050000, H01L0031054000, H01L0031020000	(71) Name of Applicant : 1)CGC Technical Campus 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)Sonia Bhukhra
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(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 an energy harvesting device, comprising a panel 1 having multiple photovoltaic cells assembled at a front side and multiple piezoelectric crystal patches affixed at a back side of the panel 1, at least two sensors (2, 3) associated with the device for detecting a set of parameters that are sunlight or rain and a control unit interconnected with the sensors (2, 3) for actuating a pair of motors in order to pivotally rotate the panel 1 for utilizing the solar cells and crystal patches simultaneously depending on detected parameters for generating energy.

No. of Pages : 10 No. of Claims : 7