

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511089204 A

(19) INDIA

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

(43) Publication Date : 10/10/2025

(54) Title of the invention : AUTONOMOUS BIRD(S) FEEDING DEVICE

(51) International classification	:H02J0007350000, B64G0001360000, H02S0020320000, F28D0021000000, H02S0010400000	(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura Punjab India <b>2)Chitkara Innovation Incubator Foundation</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Amanpreet Singh</b>
(33) Name of priority country	:NA	<b>2)Vandana Bajaj</b>
(86) International Application No	:	<b>3)Jaswinder Singh</b>
Filing Date	:01/01/1900	<b>4)Rupinder Singh</b>
(87) International Publication No	: NA	<b>5)Maninderjit Singh Khanna</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Prabhdeep Singh</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An autonomous bird(s) feeding device is comprising, a body 101 designed for placement on elevated outdoor surfaces, featuring multiple sections 102 each dedicated to storing different types of bird food, a bird detection module 103 mounted externally configured for identifying bird species s, a feeding tray 104 aligned with the sections 102 receives dispensed food, a motorized dispensing arrangement 105 releases predefined quantities of species-specific food into the tray 104, a set of environmental sensors detect real-time weather conditions, a motorized conveyor belt 106s transport dispensed food from the sections 102 to the tray 104, assisted by vibratory motors that dislodge lodged particles , an energy management module integrates solar tracking panels 107 with a sun sensor for optimal orientation, a kinetic energy harvester capturing energy from bird activity, and a rechargeable storage unit, ensuring self-sustaining off-grid power.

No. of Pages : 24 No. of Claims : 10