(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2025

(21) Application No.202541021012 A
(43) Publication Date : 21/03/2025

(54) Title of the invention : Wi-Fi Enabled Smart Pet Feeder using Rasperry and Real time Alert Mechanism

(51) International classification :A01K0005020000, A01K0005010000, A61B0005000000, A01K0029000000, H04W0004800000
(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

(71)**Name of Applicant :**
1)Dr.S.V.Divya
Address of Applicant :Professor, Department of CSE, V.S.B College of Engineering Technical Campus, Coimbatore-642109. ---------- ----------
2)Dr.T.Kalaikumaran
3)Chavala EswarKumar
4)Boobesh Prasath M
5)Hareen P
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr.T.Kalaikumaran
Address of Applicant :Professor, Department of CSE, V.S.B College of Engineering Technical Campus, Coimbatore-642109 Coimbatore ---------- ----------
2)Dr.S.V.Divya
Address of Applicant :Professor, Department of CSE, V.S.B College of Engineering Technical Campus, Coimbatore-642109. Coimbatore ---------- ----------
3)Chavala EswarKumar
Address of Applicant :Student, Department of CSE, V.S.B College of Engineering Technical Campus,Coimbatore-642109 Coimbatore ---------- ----------
4)Boobesh Prasath M
Address of Applicant :Student, Department of CSE, V.S.B College of Engineering Technical Campus,Coimbatore-642109 Coimbatore ---------- ----------
5)Hareen P
Address of Applicant :Student, Department of CSE, V.S.B College of Engineering Technical Campus,Coimbatore-642109 Coimbatore ---------- ----------

(57) Abstract :
The Smart Pet Feeder with Wi-Fi is an innovative solution designed to automate the feeding process for pets, ensuring that they receive their meals on time, even when their owners are not present. This project leverages modern IoT (Internet of Things) technology to create a user-friendly and efficient pet care system. By integrating Wi-Fi connectivity with a microcontroller, such as the ESP32 or ESP8266, the pet feeder can be controlled remotely through a mobile application available for both Android and iOS devices. The feeder enables pet owners to schedule feeding times, monitor their pets' eating habits, and control portion sizes directly from their smartphones. The device also includes a food dispensing mechanism, managed by motors and sensors, to ensure accurate portion control. Additionally, it can send real-time notifications to the pet owner if the food level is low or if a malfunction occurs. The system can also include optional features like a camera for pet monitoring, a voice feature to communicate with pets, and activity tracking sensors to monitor the pet’s behavior. By using Wi-Fi connectivity and cloud-based storage, the Smart Pet Feeder offers convenience, efficiency, and peace of mind, ensuring pets are fed regularly and appropriately even when their owners are away, and also we have to choose the required quantity of food for pet as per their size and age. This project represents a significant step towards the integration of smart technologies in pet care, making it easier for pet owners to maintain their pets' health and well-being.

No. of Pages : 8 No. of Claims : 7