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(57) Abstract :  
 A SMART EARLY PEST AND ANIMAL DETECTION SYSTEM Disclosed herein a Farm Guardian: A Smart Early Pest and Animal Detection System comprises Mobile/ App (101), Local Server (102), Modern Data Logger (103), Vision Device (104), RF Communication (105), Solar Oriented (106), Frequency Generator (201), RF Communication (202), Camera (203), Motion Sensor (204), Vibration & Temperature Sensor (205), Battery (206), Speaker (207), Processor (208), Data Logger (301), Power Adapter (302), Wifi with Router (303), Processor (304) and RF Communication (305). In another embodiment, the system comprises; Vision Devices – These are used to detect wild animals' and pest motion based on their body heat and temperature; RF Communication – transferred information from the vision device to the Modern data logger; Modern Data logger- transferred information from the RF communication to the Local server; Vibration and Temperature Sensors; Motion Sensors. In another embodiment, these sensors are used to detect animals based on the thermal temperature/body temperature; These Visual sensors are set up on the boundary of the field and connected with a solars well enclosed to protect it from the biotic and abiotic factors leading to damage or leakage; The sensors are placed slightly above the ground level or in the wrapped form to protect them from the dust collection on the sensors.

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