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Patent Search

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Abstract:

ABSTRACT IOT AND CLOUD BASED AGRICULTURAL MONITORING SYSTEM In this present invention, a novel IoT-based device for the programmed sensing and recording of different crop pests damages the agriculture field in various settings. An observing device for detecting diversified pests in the agriculture field that complies with the context of different crop fields of agriculture settings is compatible with the emerging discipline of the Internet of Things (IoT). We consider it can find its place in every field, farms under different environmental settings of agriculture field. This portable box-shaped instrument attracts other targeted insect pests, intellects the pest movement, and robotically takes a snapshot of the integral space inside the box. This agriculture-based insect e-trap comprises strong attractants (pheromone and food) to upsurge the insect arrest efficiency and insect traps on its gluey floor. The e-device transmits the primary optoelectronic radars to monitor all trap entries. As the pest enters, it intrudes the ultraviolet light source. It elicits a detection event, which further snaps a picture, and a time-stamp was fixed before sending the photo through the Wi-Fi to an approved stakeholder. The device can be integrated seamlessly into different agriculture settings and functions unremarkably to farmer's activity. Thus the present invention on various insect pests and, depending on the insect species, can reach an exposure accuracy between 90-95% ranges.

Complete Specification**Claims:CLAIM (S)**

1. An Agriculture Monitoring System relates to IoT-based device for the programmed sensing and recording of different crop pests damages the agriculture field in various settings.
2. The system of claim 1, wherein the device for detecting diversified pests in the agriculture field that complies with the context of different crop fields of agriculture settings is compatible with the emerging discipline of the Internet of Things.
3. The system of claim 1, wherein the portable box-shaped instrument attracts other targeted insect pests, intellects the pest movement, and robotically takes a snapshot of the integral space inside the box. This agriculture-based insect e-trap comprises strong attractants (pheromone and food) to upsurge the insect arrest efficiency and insect traps on its gluey floor.
4. The system of claim 1, wherein the e-box-structured device with dimensions of 20 cm × 10 cm × 8.5 cm, including the plastic box with a building electronic kit device.
5. The system of claim 1, wherein the monitoring device for agriculture pest management in the context of different crop settings and is compatible with the emerging discipline of the Internet of Things.
6. The system of claim 1, wherein the e-device transmits the primary optoelectronic radars to monitor all trap entries. As the pest enters, it intrudes the ultraviolet light source. It elicits a detection event, which further snaps a picture, and a time-stamp was fixed before sending the photo through the Wi-Fi to an approved stakeholder.
7. The system of claim 1, wherein the time delay of the entering event based on marking the onset and the end of an entering event. A long wait is atypical for a pest motion and this initiates a possible malfunction notice process through the Wi-Fi

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