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Patent Search

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Abstract:

DRONE BASED AUTOMATIC AND AUTONOMOUS THERMAL STUDY ON SENSITIVE AND ISOLATED ELECTRICAL EQUIPMENT ABSTRACT OF THE INVENTION Drone technology find its application in many domains. In the present invention Drone Based Automatic and Autonomous Thermal Study on Sensitive and Isolated Electrical Equipment is developed. This invention comprising of the Drone, Artificial Intelligence based controller (AI controller), main control unit. The drone further comprising of thermal camera and transmitter. The AI controller comprises of transceiver and it is incorporated with Artificial Intelligence Technique to train the drone to track the path and identify the spot to take the image capturing. Initially, the drone is trained to follow the path/directions to be followed to take the thermal image of the required equipment using Artificial Intelligence Technique. Then the direction data is stored at the Central Control Unit. The operator can initiate the drone to start surveillance either through guider pad or operate the same in auto mode. Drone identifies the spot and scanning for the thermal Image. It sends the captured image to the AI controller where the thermal image is processed and through which the Type of Faults are identified. All the data are transferred to the main Control Unit for initiating the corrective actions.

Complete Specification

Claims:WE CLAIMS

1. A Drone Based Automatic and Autonomous Thermal Study on Sensitive and Isolated Electrical Equipment comprising of:
 - i. a Drone;
 - ii. an Artificial Intelligence based controller (AI controller);
 - iii. a main control unit;
2. A Drone Based Automatic and Autonomous Thermal Study on Sensitive and Isolated Electrical Equipment according to claim 1, wherein the drone further comprising of thermal camera and transceiver.
3. A Drone Based Automatic and Autonomous Thermal Study on Sensitive and Isolated Electrical Equipment according to claim 1, wherein the AI controller has the Artificial Intelligence Technique and transceiver.
4. A Drone Based Automatic and Autonomous Thermal Study on Sensitive and Isolated Electrical Equipment according to claim 1, wherein the main control panel has monitor, guider pad and transceiver.

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