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(54) Title of the invention : SMART SOLAR-POWERED SCARECROW SYSTEM WITH IOT INTEGRATION FOR CROP PROTECTION AND METHOD THEREOF

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The invention discloses a cutting-edge solution designed to manage and mitigate bird-related issues in agricultural areas. It features a solar-powered scarecrow equipped with an IoT module, which allows for real-time monitoring and control via a mobile application. The system includes a deterrent mechanism, including visual and/or auditory components, to effectively repel birds. The integrated monitoring system tracks bird activity, which is transmitted to a remote server for continuous tracking. This smart system adjusts its deterrent actions based on real-time data, ensuring efficient and enhanced bird management. The use of solar energy ensures sustainability and independence from external power sources.

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