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(57) Abstract :
The present invention relates to the development of an inventive crop protection assembly that reduces insect damage while fostering ecological sustainability by using animal-friendly repelling qualities. The assembly incorporates naturally occurring substances that successfully repel a range of agricultural pests, such as insects and larger animals, without negatively impacting beneficial species and non-target wildlife. The effectiveness of the repellent qualities was assessed in a number of controlled studies in different agricultural conditions, showing significant reductions in pest-related damage. The formulation of the assembly places a strong emphasis on biodegradable components, guaranteeing a low environmental impact. The study also emphasizes how crucial it is to incorporate these techniques into current Integrated Pest Management (IPM) frameworks in order to increase agricultural yield while protecting biodiversity. The results imply that implementing such animal-friendly practices can create a safer agricultural environment, supporting both crop production sustainability and animal welfare. This will direct future studies and advancements in environmentally friendly pest management techniques. FIG.1

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