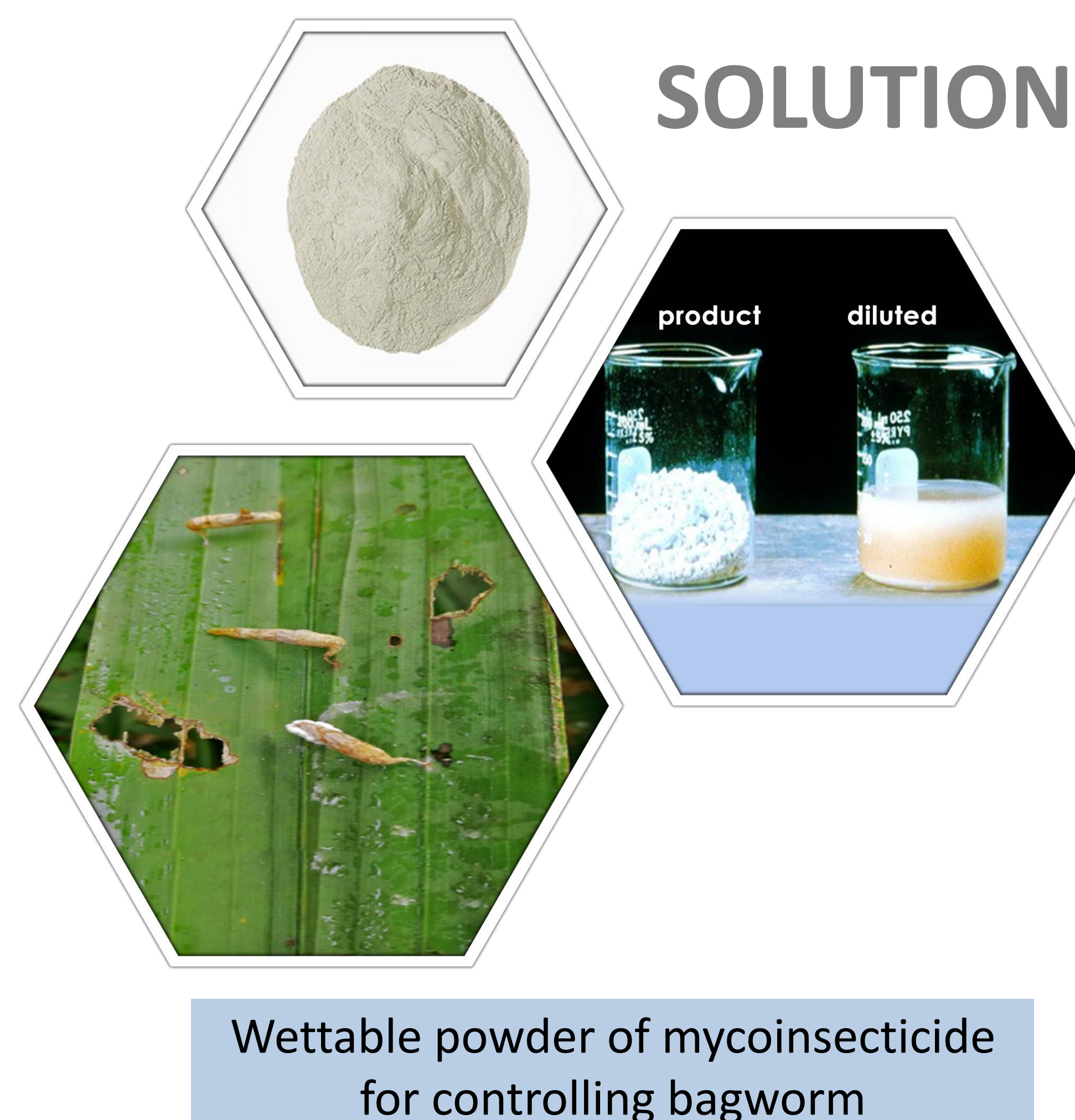




Composition For Suppressing Pest Infestation

PATENT NO. PI2019005433



TECHNOLOGY

The formulated formulation of selected entomopathogenic fungi (EPF) cultured as wettable powder formulation (Ecosaria).

The dried submerged propogule of EPF comprises of mycelial fragments and conidia formulated together with wetting and dispersant agent and filler to form the wettable powder formulation for controlling infestation of agriculture pests such as bagworm.

PROBLEM STATEMENT & CURRENT ISSUES

- Bagworm of oil palm requiring an urgent solution in Malaysia. Economic loss only greatly affected if bagworm population reach outbreaks. It has been known to attack oil palm since the early years when the crop was introduced into this country.
- Effective control strategies for bagworm have so far proved using chemical insecticides. To minimise losses from bagworm infestation, both long and short term for pest control are necessary.
- The alternative using entomopatogenic fungi to controlling bagworm is good method otherwise not harmful to oil palm pollinators' weevil. It is also can remained up to three month after spraying at the oil palm plantation.

INVENTIVENESS & NOVELTY

- Ecosaria is formulated as wettable powder.
- Ecosaria gives good dispersion and suspension to give a homogeneous mixture in the spray solution.
- Ecosaria is able to maintain the viability of the conidia.

USEFULNESS & APPLICATION

Ecosaria an eco-friendly natural insecticide especially suited for application in agricultural crops such as oil palm plantation.

It is yet another objective of the present invention to provide an easily degradable natural insecticide against bagworm.

IMPACT OF THE PRODUCT

- Ecosaria provide a natural insecticide which is harmless to non-target organisms and the environment.
- Ecosaria has ability to increase the active ingredients activities.
- Low cost as it does not need to use expensive technology or tools.

MARKET POTENTIAL

- Agriculture industry
- Oil palm plantation
- Local agrochemical company
- International agrochemical company
- Oil palm smallholder plantation

TRL : 6 – Demonstration in real environment



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