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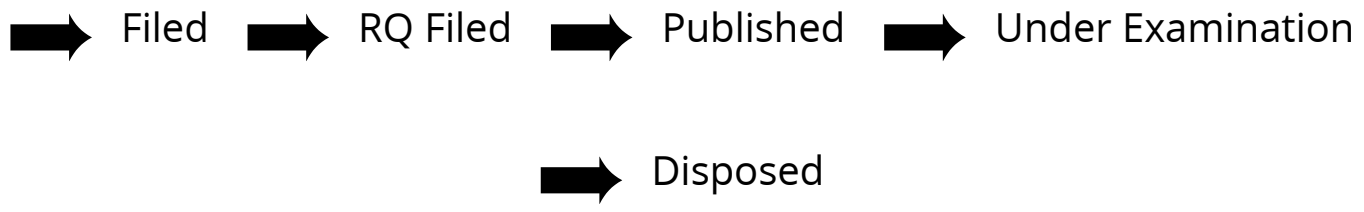
#### Application Details

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APPLICANT NAME	AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN
TITLE OF INVENTION	A PROCESS OF PREPARATION OF NANO-ONIO INSECTICIDE EXHIBITING ANTIBACTERIAL AND INSECTICIDAL ACTIVITY AND PRODUCT THEREOF
FIELD OF INVENTION	CHEMICAL
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(57) Abstract :

TITLE: A PROCESS OF PREPARATION OF NANO-ONIO INSECTICIDE EXHIBITING ANTIBACTERIAL AND INSECTICIDAL ACTIVITY AND PRODUCT THEREOF APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN ABSTRACT The present invention discloses a process of preparation of Nano-Onio Insecticide exhibiting antibacterial and insecticidal activity and product thereof. The process of the present invention comprises of a. mixing chitosan solution in 1% acetic acid under stirring and centrifuging to obtain supernatant and pellet in which the pellet is discarded; b. adding Tween 80 to the obtained supernatant followed by agitation to obtain chitosan nanoparticles; c. dissolving Allium cepa essential oil in dichloromethane to obtain oil mixture followed by gradual drop wise addition of the oil mixture to the chitosan nanoparticles to obtain an oil-in-water emulsion; d. adding cross linker sodium tripolyphosphate to the oil-in-water emulsion under stirring followed by centrifugation to obtain pellet and supernatant and sonication of the pellet followed by freeze drying to form Nano-Onio Insecticide in which the supernatant is discarded.

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