

ABSTRACT

WATER RESISTANT DISINFESTATION SHEET AND METHOD OF MANUFACTURING

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A disinfestation sheet includes a carrier layer with active pesticidal particles formed therein. The active pesticidal particles contain pesticidal ingredients selected from pyrethroid family or the like. Pyrethroids may be produced and prepared after plant extracts. The carrier layer has channels formed therein. The channels form one or more paths between one or more pesticidal particles and at least one of the first and the second surfaces to allow diffusion of the active pesticidal ingredient from the pesticidal particles to at least one of the first and the second surfaces of the carrier layer. When pests move to become in contact with a disinfestation sheet, the pesticidal ingredient reacts with the pests' integral membrane protein, hindering the nerve cells and associated functions, eventually ceasing the functions of nerve cells and killing the pests within short period time.

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(Fig. 3)