

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No: 733/BOM/1999

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(22) Date of filing of Application: 28/10/1999 (43) Publication Date :

(54) Title of the invention: PROCESS FOR PREPARING REPELLENT COMPOSITION FOR HONEYBEES.

<p>(51) International Classification: A01N 43/00</p> <p>(31) Priority Document No.: NIL</p> <p>(32) Priority Date: NIL</p> <p>(33) Name of priority country: NIL</p> <p>(86) International Application No. & Filing Date: NIL NIL</p> <p>(87) International Publication No.: NIL</p> <p>(61) Patent of addition to Application No.: NIL Filed on: N.A.</p> <p>(62) Divisional to Application No.: NIL Filed on: N.A.</p>	<p>(71) Name of the Applicant:</p> <p>AGHARKAR RESEARCH INSTITUTE</p> <p>Address of the Applicant:</p> <p>3 G.G. AGARKAR ROAD, PUNE - 411 004, MAHARASHTRA, INDIA</p> <p>(72) Name of the Inventors:</p> <ol style="list-style-type: none">1. Dr. NAIK DATTATRAYA GOPAL2. SMT. BANHATTI PADMINI RAJENDRA3. Dr. THOMAS DAISY4. SHRI. CHAWDA SHYAM SUNDAR <p>Filed U/S 5(2) before the Patents (Amendment) Ordinance, 2004: NO</p>
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(57) Abstract : Availability of repellent formulations is important to keep honeybees away from certain areas, particularly when poisonous insecticides are sprayed on the crops. This would avoid the possible mixing of toxic insecticide into the honey collected.

Screening of volatile organic compounds was carried out to determine the class having the repellent properties for honeybees. Sulphur compounds belonging to the class thioethers were found to possess these properties. Synthesis of aliphatic or alicyclic thioethers having 6 to 10 carbon items was carried out using standard procedures. Formulations of synthetic thioethers in inert liquid were prepared and were loaded on the blocks of porous inert material. The protocol to screen the formulations for testing the repellent activity on honeybees was finalized.

Hence our invention is a process for preparing repellent compositions for honeybees loaded on porous blocks of inert material wherein steps comprise:

Preparing composition of ethyl thioethers is in the range of 0.02 % to 2.0%, in the formulation containing the rest part as liquid paraffin and further, the process comprises of loading 50 µl of the formulation on the blocks of inert material such as plaster of Paris, pumice stone or bricks having dimensions 1 cm diameter and 1 cm height.

(FIG.) : NIL

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