Title: STICKY TRAP USING COLOR CONTRAST AND METHOD FOR CONTROLLING INSECTS USING THE SAME

Abstract: Disclosed herein is a sticky trap attracting pest insects, and more specifically, disclosed herein are a sticky trap capable of exhibiting maximal visual attraction effects by suitably controlling factors such as color contrast, an area ratio of the trap portion to the background portion, and variation in shape, and a method for controlling pest insects using the same. From optimal examples, it can be confirmed that the sticky trap of the present invention exhibits 2.1-fold or higher attraction activity, as compared to conventional sticky traps, is non-toxic to humans, animals, and the environment, and is thus environmentally-friendly, and keeps the density of target pest insects below an acceptable economical loss level in spite of reduced spray frequency of pesticides.
Published:

— with international search report (Art. 21(3))

— before the expiration of the time limit for amending the claims and to be published in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report: 24 September 2009
**A. CLASSIFICATION OF SUBJECT MATTER**

**AO1M 1/14(2006.01)1**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC AO1M 1/02, AO1M 1/16, AO1M 1/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility Models and applications for Utility Models since 1975

Japanese Utility Models and applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & Keywords sticky, adhesive, insect, vermin, pest, complementary, color and trap

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>JP 12-004754 A (HIROTAKA OTOMO et al) 11 Jan 2000 See abstracts, pages 2-3 paragraph [0012] - [0015], claims 1-4, fig 1</td>
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<td>A</td>
<td>KR 10-0699323 B1 (JANG SUK IK) 23 Mar 2007 See abstracts, page 3, claims 1-3, fig 1</td>
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<td>A</td>
<td>KR 1991-0016249 A (BERTRAM HEINZ-JUERGEN et al) 05 Nov 1991 See pages 1-2 claims 1-1 1, fig 2</td>
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☐ Further documents are listed in the continuation of Box C ☑ See patent family annex

* Special categories of cited documents
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Date of the actual completion of the international search

07 AUGUST 2009 (07.08.2009)

Date of mailing of the international search report

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<th>Publication date</th>
<th>Patent family member(s)</th>
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<tr>
<td>JP 12-004754 A</td>
<td>11.01.2000</td>
<td>None</td>
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<td>KR 10-0699323 B1</td>
<td>23.03.2007</td>
<td>None</td>
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[Fig. 1]

![Bar charts](image)

**Choice test**

Ratio of thrips caught (each shape/square)

Mean no. of thrips trapped

Symbols: bc, d, cd, bc, b