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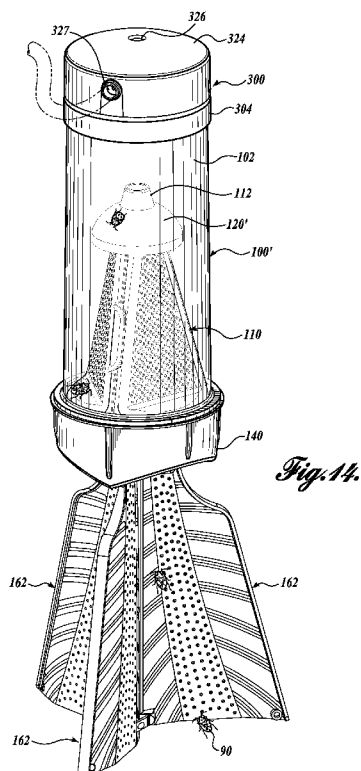
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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[Continued on next page]

(54) Title: ILLUMINATED INSECT TRAP



(57) Abstract: An insect trap (100, 100') and lighting device (200, 250, 300) for an insect trap suitable for trapping light-attracted insects, in particular indoor nuisance insects that overwinter indoors, including true bugs, lady beetles, and flies. The lighting device may be attached to the base or the top of the trap, and includes light-emitting elements that are directed towards the trap, and are configured to lure target insects toward the trap entryway. In an embodiment, the trap includes an entrapment chamber (102) with an internal cone (110) with an opening at both ends, and a collar over a distal end. A vanes assembly (160) extends toward entryways. In an embodiment, the light fixture comprises a cap that fits over the trap and directs light into the trap through the entrapment chamber wall. The lighting elements may be selected to emit light in a narrow band selected to attract the target insect.



UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/032921**A. CLASSIFICATION OF SUBJECT MATTER*****A01M 1/04(2006.01)i, A01M 1/02(2006.01)i, A01M 1/00(2006.01)i***

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)

A01M 1/04; A01M 1/10; A01M 1/22; A01M 1/06; A01M 1/00

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords:insect, trap, illumination, light, diode

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 8028467 B2 (BAGNALL GARY WAYNE et al.) 04 October 2011 See abstract; figures 1-2; page 3 paragraph[0042]	1-21
A	US 2009-0151227 A1 (SCHNEIDMILLER RODNEY G.) 18 June 2009 See abstract; figures 1-4; claim 1; paragraphs[0025]-[0032]	1-21
A	EP 1138199 A2 (MARCATO, ANTONIO) 04 October 2001 See abstract; figures 1-3	1-21
A	US 04856226 A (TAYLOR; ADOYAL) 15 August 1989 See abstract; figure 2	1-21

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/032921

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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