



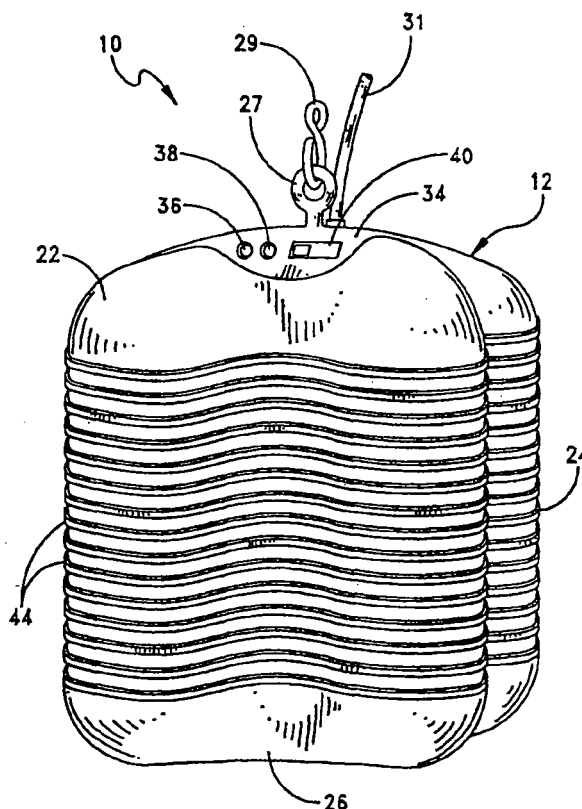
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(21) International Application Number: PCT/US99/19975 (22) International Filing Date: 1 September 1999 (01.09.99) (30) Priority Data: 09/148,550 2 September 1998 (02.09.98) US (71) Applicants: BIOSENSORY INSECT CONTROL CORPORATION [US/US]; Windham Mills Technology Center, 322 Main Street, Building 1, 2nd floor, Willimantic, CT 06226 (US). THE UNITED STATES OF AMERICA, as represented by THE SECRETARY OF AGRICULTURE [US/US]; Washington, DC 20250 (US). (72) Inventors: NOLEN, James, A.; 60 Sharp Street, West Greenwich, RI 02817-2100 (US). MATHIEU, David, L.; 11 Glover Place, Middletown, CT 06457 (US). KLINE, Daniel; 5027 Northwest 75th Lane, Gainesville, FL 32653 (US). (74) Agents: McLANE, Jodi-Ann et al.; Salter & Michaelson, 321 South Main Street, Providence, RI 02903-7128 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: APPARATUS FOR ATTRACTING AND DESTROYING INSECTS

(57) Abstract

An apparatus (10) for attracting and destroying insects is disclosed. The apparatus (10) simulates a host animal and has an electrified grid (20) constructed and arranged for intercepting the flight of the insect around the apparatus (10), thereby increasing the efficiency of the apparatus in destroying insects. The apparatus generally includes a source of carbon dioxide (14), a source of octenol (16), a device (50) for emitting the carbon dioxide proximate the source of octenol to create a mixture of the carbon dioxide and octenol, a heating element (60) and an electrified grid (20). Insects are initially attracted to the apparatus by the odor associated with the mixture of carbon dioxide and octenol. As the insects fly closer to the apparatus, they are further attracted to the visual properties of the apparatus and then, at close range, they are attracted to the heat emitted by the heating element. In an attempt to fly closer to the heating element, the insects are intercepted by the electrified grid (20) and destroyed.



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