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RECOGNIZED TESTING LABORATORIES (NRTL'S)

The Dispatch

"An Insect-O-Cutor® and Germ-O-Ray® Newsletter"



SPRING/SUMMER 2002

From the Editor:

"When all things old are new again..."

Although that quote seems familiar, we just can't seem to place it. However, what we know is that quote's relevance to our lead article, "Scatterproof 'zappers' ". It seems more and more people are rediscovering an Insect-O-Cutor® innovation that is well over a decade old; our Model 1890. If product contamination in sensitive areas is a concern, then perhaps a fresh look at the original "scatterproof" fly light might be good for you.

Speaking of "fresh" and as highlighted on Page 2, Insect-O-Cutor's® new, improved website goes "live" this Spring! Content, MSDS, "tech data", and a load of helpful information is simply a click away at <http://www.insect-o-cutor.com>. Let us know what you think.



SCATTERPROOF "ZAPPERS" ? !

Studies in recent years have suggested that bacteria and particles from insects electrocuted in standard light traps (a/k/a "zappers") may travel as far as six feet (1.8 meters) from the unit.

This "scatter" concern is not new to Insect-O-Cutor®. Last century, Insect-O-Cutor® proactively designed and built the first "scatter-proof" insect light trap. That model, known today as the 1890/1894E, was presented to the U.S.D.A. for verification of its "scatter-proof" property. And upon the completion of successful U.S.D.A. testing, the 1890/1894E was formally recognized by the F.D.A. as being scatter-free.



If you have need for flying insect control within areas where open product and/or preparation materials are readily accessible, then perhaps the original "Scatterproof zapper" may be of use to you.

{Note: Please see Page 3 for more "scatterproof" information.}

The Dispatch Spring/Summer 2002 Issue

Dis-patch (dīs-päch)

tr.v. to send off to a specific destination; to complete or dispose promptly of; to put to death summarily; —*n.* a written message sent with speed; a news item.

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Germ-O-Ray® is a registered product name for Air Disinfection Fixtures manufactured solely and exclusively in Stone Mountain, GA, U.S.A.

Phone: (770) 939-2835
Fax: (770) 621-0100
E-Mail: insecto@mindspring.com
sales@insect-o-cutor.com
Web Site: www.insect-o-cutor.com

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UL® CLASSIFIED & NSF® CERTIFIED
SAFETY-COATED LAMPS NOW AVAILABLE



As awareness and need for protective lighting increases, Insect-O-Cutor® is pleased to offer UL® Classified safety-coated lamps.

Underwriters Laboratories (UL®) is an independent, nonprofit safety-testing and certification organization. The UL Environmental & Public Health (UL-EPH) mark confirms that products bearing the UL-EPH mark comply with ANSI/NSF Standards and other food/hygiene codes.

For additional information, please call Insect-O-Cutor® (770-939-2835) or visit both the UL and the NSF on line at www.ul.com and www.nsf.org.

GLOBAL

Does your company have production outside of North America? If so, then keep in mind that Insect-O-Cutor® is experienced with global-export business. Whether it's a cola company in Uzbekistan or a meat processor in Iceland, chances are Insect-O-Cutor® can meet your needs. Recent global sales and service:

Tuna	Costa Rica	Drugs	Singapore
Meats	Iceland	Air Catering	Guam
Vegetables	Ecuador	Wines	Chile
Poultry	Panama	Pharmaceuticals	China
Paper	Argentina	Chewing Gum	Russia
Fishery	Zimbabwe	Oil	Nigeria
Industrial Bakery ...	Mexico	Cola	Uzbekistan

ROBO-MOTH -

Continued from Page 4

Also working in conjunction with DARPA is Brian Smith of Ohio State University. Dr. Smith, working from a Pavlovian method, has shown that sphinx moths can be trained to stick out their tongues in response to cyclohexanone; a volatile component of TNT found within land mines.

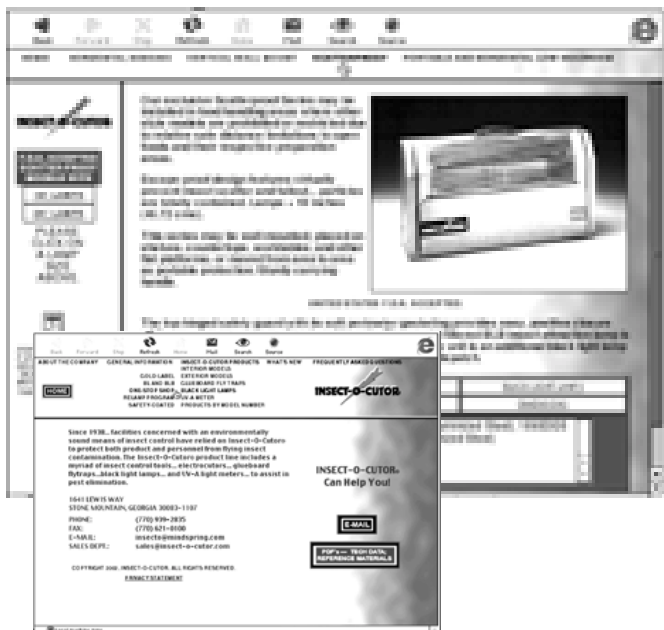
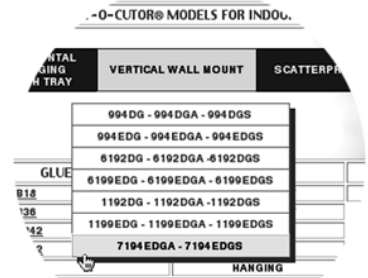
By equipping a TNT/cyclohexanone responsive sphinx moth with an electronic bio-controlled backpack, it is supposed that sphinx moths could become effective land mine detectors; thus protecting troops. Imagine if Mothra had used his powers for good.

“.com !”

As the world leader in insect control equipment for industry, Insect-O-Cutor® has completely revamped its website to enable rapid navigation. Designed for ease of use, the site is replete with technical data and specifications on all Insect-O-Cutor® models...on site pages and in printable PDF's (**portable document format**). Models may be selected by the size, shape and style desired — or by specific model number for customer convenience. An entire section is devoted to black light information while our wide range of Guardian® glueboard fly traps is well represented.

Visitors to the Insect-O-Cutor® website are never besieged by menacing “cookies”, pop-ups, banners, timely downloads (flash movies, audio, etc.), or other cutesy “bells and whistles”. What you get is a site that is entirely cross-browser and -platform compatible — Internet Explorer 5+, 4.0+... Netscape 6.0+ (current 6.2.2), 4+, /Mozilla... Opera 5+... Konqueror 2+.

Visit us at <http://www.insect-o-cutor.com>.



HELPFUL URL'S

(Universal Resource Locators — a/k/a website addresses)

- Food Code & Compliance Concerns ... <http://www.foodsafety.gov>
- Energy Efficiency Issues <http://www.energy.gov>
- Food Safety & Inspection Services <http://www.fsis.usda.gov>
- Super Search Engine-1 <http://www.google.com>
- Super Search Engine-2 <http://www.dogpile.com>
- “Robo-Moth” Information <http://www.neurobio.arizona.edu/mothofaction/people.html>
- Authoritative Insect Light Trap Site <http://www.insect-o-cutor.com>
- Facilities Engineering Association <http://www.afe.org>
- Personalized News Retrieval <http://my.yahoo.com>
- Satire — Entertainment <http://www.the.onion.com>
- Guide Dogs for the visually impaired ... <http://www.guidedog.org>
- <http://www.guidedogs.com>

Glue for you!

Insect-O-Cutor® pioneered the development of 'scatterproof' insect light traps (see Page 1). In keeping with our innovative tradition, we're introducing two new portable glueboard models to complement our existing line of Guardian® wall mounted, hanging, and portable models.

New for 2002 are Portable Glueboard Models GBP182 and GBP362. Like current Models GBP242 and GBP482, our two newest models are designed to "DO IT ALL"; portable, wall mountable, and even hangable from the ceiling.

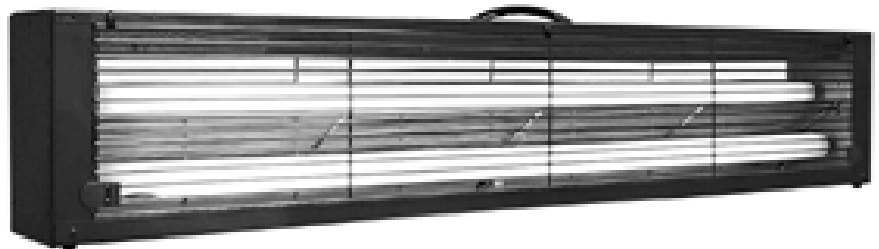
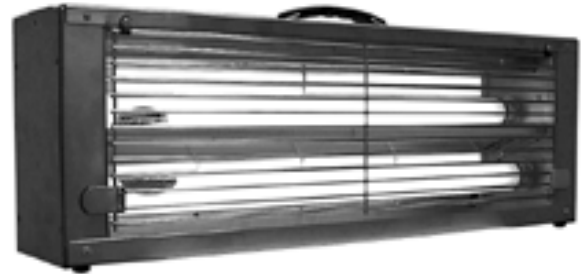
Using energy-efficient lamp ballasts and "environmentally friendly" T8 diameter lamps (safety-coated or standard), both the GBP182 and GBP362 significantly increase light emissions for insect attraction while reducing energy consumption.

Constructed of stainless steel, all GBP (glueboard portable) models carry an industry-leading extended warranty. For technical data, please contact Insect-O-Cutor® (Phone: 770-939-2835) or visit us on-line at www.insect-o-cutor.com.



MADE IN U.S.A.

PICTURED FROM
THE TOP DOWN:
INSECT-O-CUTOR®
GUARDIAN®
PORTABLE
MODELS GBP182,
GBP242, GBP362,
AND GBP482.



TECH CORNER: ELECTRICAL AND LIGHTING TERMS

Alternating Current (AC) An electron flow which regularly reverses direction.

Angstrom Unit of measure for the wavelength of light; UVA/Black Light peaks at 3650 angstroms.

Ballast Device used to obtain necessary circuit conditions (voltage, current and waveform) to start and operate fluorescent lamps.

Band A range of frequencies falling between two defined limits; such as, Ultraviolet A-band (a/k/a, Black Light) ranges between 3200 and 4000 angstroms.

Bi-Pin Set of two pins located at each of a lamp's end caps for receiving current.

Bulb Usually a straight glass tube containing a vacuum, inert gas or metal and means of light generation (filaments).

Cathode Tungsten wire coated with emissive materials which emit electrons.

Circuit .. An electrical path having a power source, load and conductors to carry current.

Coil Wrapping a number of turns of wire on a coil form or iron core; as seen in electrical grid transformers.

Component A single part or group of parts used in a circuit.

Core Magnetic material inside a transformer used to increase magnetic field strength.

Direct Current (DC) Electron flow in only one direction.

Electron A negatively charged particle which orbits an atom's nucleus.

Filament Tungsten wire electrically heated to generate radiation in visible, infrared, and ultraviolet ranges.

Fluorescent Lamp Low pressure mercury vapor discharge light source.

Frequency ... The number of complete cycles per second as measured in hertz.

Gas Usually argon or inert gases at low pressure used in fluorescent lamps.



Hertz (Hz) Frequency unit of measure equal to one cycle per second.

Hot Connected to a power source; energized.

Illuminance Light arriving at a surface expressed in lumens per unit area.

kHz Abbrev. of kilohertz; kilo = 1000

Lamp Manufactured light source, synonymous with light bulb.

Light Radiant energy that is capable of producing a visual sensation.

Lumen Unit of luminous flux; overall light output; quantity of light.

mA Abbrev. milliampere; one thousandth of an amp.

Nano Prefix meaning one millionth; commonly used as a unit of wavelength.

Operational Life The minimum length of time a device is expected to operate; e.g., insect attraction lamps average 7000 hours.

Output Energy delivered by a device or a circuit.

Ozone A type of oxygen produced during an electrical discharge.

Parallel Circuit ... Circuit containing two or more paths for electron flow from a common source.

Phosphor ... The layer of material coating the inside of a lamp tube that produces light when hit by an electron beam.

Secondary The output winding of a transformer.

Series Circuit Circuit with components arranged end-to-end; current must flow through all components to complete the circuit.

Speed of Light Distance light travels in one second; 186,000 miles per second.

Speed of Sound Distance sound travels in one second; 1080 feet per second.

Transformer Device used to step-up or -down voltage by induction.

Watt Unit of electrical power indicating power consumption.

ROBO-MOTH – Look Out Godzilla!

For those that remember, one of Godzilla's many arch-enemies was Mothra; a colossal, super-destructive member of the Lepidoptera order (moths). Yet with advances in today's miniaturization technologies, it appears that the common (more minuscule or regular-sized) moth may now be more formidable than the colossal Mothra.

University of Arizona neurobiologist John Hildebrand, working with America's Defense Advanced Research Projects Agency (DARPA), is harnessing the dexterous **sphinx moth** (sphinxidae) with electronic bio-controls to create a "robo-moth".



By studying the moth's directional and nervous system responses to pheromones, Dr. Hildebrand believes that electrodes attached to the appropriate directional nerves can replicate a moth's response to pheromones; that is, with electrical stimulation, a sphinx moth can be steered. Possible assignments for Dr. Hildebrand's "**robo-moths**" could include hazardous applications and surveillance with micro-camera packs!

(Continued on Page 2 — see Robo-Moth)



Do you use procurement cards? Conduct on-line or Ariba purchasing? Insect-O-Cutor® accepts the three card types shown above and conducts "level 2" Ariba purchasing.

UNITED STATES

1641 Lewis Way
Stone Mountain, GA 30083

Phone: (770) 939-2835
Fax: (770) 621-0100
E-Mail: insecto@mindspring.com
sales@insect-o-cutor.com

VISIT OUR WEB SITES:

INSECT-O-CUTOR® <http://www.insect-o-cutor.com>
GERM-O-RAY® <http://www.germ-o-ray.com>

AVAILABLE IN ENGLISH AND ESPANOL

CANADA

Post Office Box 374
Paris, Ontario N3L 3T5
Shipping Address: 6 Adams Street
Paris, Ontario N3L 3X4
Phone: (519) 442-2988
Fax: (519) 442-4602
E-Mail: lisaw@psl-ca.com



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