



# E-NEWSLETTER

KRIZ - DAVIS CO.

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SEPT. — OCT. 2010

Greenlee Tool is our website vendor of the month.



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[www.krizdavis.com](http://www.krizdavis.com)

## A WHODUNIT

New email address  
[kdnewsletter@krizdavis.com](mailto:kdnewsletter@krizdavis.com)

**T**hroughout history, it has always been said that Samuel F.B. Morse was the inventor of the telegraph but was he really?

Lets meet Charles Thomas Jackson (born June 21, 1805) who is also a part of this story. He was the brother-in-law of Ralph Waldo Emerson and a graduate of Harvard Medical School.



Besides medicine, he also had a great interest in geology.

We need to jump ahead for a moment to 1847. Jackson, putting his medical profession on hold, accepted an appointment as the U.S. Geologist for the Lake Superior land district. The district was about to become one of the major copper-producing regions of the world. For some reason though his leadership proved to be a disaster, and he was eventually dismissed from his position.

Jackson is particularly remembered for his involvement in a series of often bitter conflicts that left their marks on the scientific arena of his day. This conflict allegedly followed a pattern: a discovery would be announced by someone, then Jackson would claim prior discovery, and a controversy would ensue. Among the conflicts included the discovery of guncotton, the telegraph, the

digestive action of the stomach, and the anesthetic effects of ether.

Now we need to go back to October 1832 where we find Charles returning from Europe via steamship to the U.S. Also on board was Samuel F.B. Morse. Jackson and Morse happened to meet and a discussion of electromagnetism ensued. It is said that Jackson convinced Morse that an electric impulse could be carried along a very long wire. Morse later recalled that he reacted to this news with the thought that "if this be so, then the presence of electricity can be made visible in any desired part of the circuit." And as they say, "the rest is history".

**B**ut one question still remains to be answered....who really came up with the electrical impulse theory? Jackson or Morse? Given Jackson's prior leadership disaster and conflicts it makes one wonder if he actually came up with this idea or was it a figment of his imagination. It's sad to say that by 1873 Jackson was afflicted with mental illness so severe that he had to spend the remainder of his life in retirement and he eventually died in the McLean Asylum in Somerville, Massachusetts. Just think....we could have had Jackson Code instead of Morse Code.

(Information courtesy of Wikipedia)



**P**ress Release:  
Palatine, Ill.,  
August 9,  
2010 — Schneider  
Electric, a global  
specialist in energy  
management, an-  
nounced that on Au-  
gust 2, 2010, the U.S.  
Consumer Product  
Safety Commission

(CPSC) issued a voluntary recall for counterfeit circuit breakers distributed by Miami Breaker, Inc. and imported by General Breaker & Panel, Inc. both of Miami, Florida. The voluntary recall was requested by Miami Breaker, Inc. pursuant to an Agreed Consent Order for Permanent Injunctive Relief, signed by U.S. District Court Judge K. Michael Moore in a lawsuit brought by Square D® in the U.S. District Court for the Southern District of Florida.

“Over 43,000 of these counterfeit products were sold into the field by these unauthorized resellers,” said Bill Snyder, Vice President, Channel Development, Schneider Electric. “These counterfeit products are inferior in quality and pose risks to the public. They can fail to trip in the event of an overload or a short circuit thereby creating a risk of fire,” according to Snyder. “Anyone choosing to deal in the marketplace where these counterfeit goods are sold is putting people and property in danger.”

Customers that believe they may have purchased counterfeit circuit breakers covered by the CPSC recall should visit the CPSC’s webpage dedicated to the recall located at: <http://www.cpsc.gov/cpsc/pub/prerel/prhtml10/10749.html> to gather further information on the recall.

“Schneider Electric is committed to eradicating



the manufacture, distribution and sale of counterfeit products and exercising its legal right to stop those who are putting the public at risk and profiting from use of Schneider Electric’s trademarks and designs,” said Snyder. “We’ll stop at nothing to preserve the integrity of our products and protect customers from the serious health and safety hazards associated with counterfeit products.”

Any inquiries relating to this press release should be directed to Stephen Litchfield, Assistant General Counsel, Schneider Electric, Palatine, Illinois at 847-925-3516. [www.schneider-electric.us](http://www.schneider-electric.us)

Press Contact: Schneider Electric Elizabeth de-Castro Phone: 1-800-788-1704 x2957 [elizabeth.decastro@schneider-electric.com](mailto:elizabeth.decastro@schneider-electric.com) Press Contact: Text 100 for Schneider Electric Barbara DeConto Phone: 415-593-8425 [barbarad@text100.com](mailto:barbarad@text100.com)

The estimated 43,600 counterfeit circuit breakers are marked as Square D in the QO series. The models are QO115, QO120, QO130, QO215, QO220, QO230, QO240, QO250 and QO260.

Genuine Square D QO breakers have the following: (1) the amp rating written on the handle in white paint on the front of the breaker, (2) the Square D insignia molded onto the breaker side; (3) a yellow chromate clip with half of the top of the clip visible. If your breaker does not match this description, it could be counterfeit. These units were sold to electrical product distributors and wholesalers nationwide.

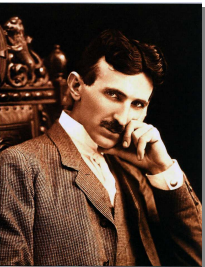
**T**he next time you see a flyer with a QO breaker listed at \$4.00 or \$9.00 consider that old adage *that you get what you pay for*.

(Information courtesy of Schneider Electric Company.)

# TECH CORNER

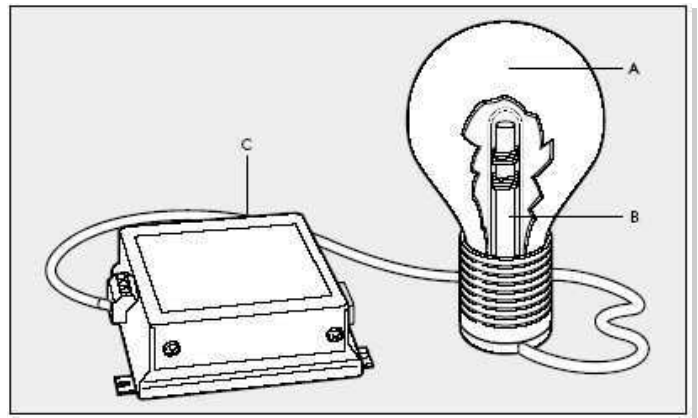
**T**he incandescent lighting market will eventually go away and be replaced with HID and fluorescent lamps with LED becoming the wave of the future. However, did you know there were lamps without filaments that surpass LED's in lamp life? They are called magnetic induction lamps. One of the main players in this technology is Philips NA.

Is this technology new? Not quite. Nicola Tesla introduced induction technology in the 1800's. He once lit over 200 lamps from 25 miles away without wires. The lamps do not use electrodes which degrade over time.



There are two main types of magnetic induction lamp, external inductor lamps and internal inductor lamps. The original, and still widely used form of induction lamps are the internal inductor types. A more recent development is the external inductor types which have a wider range of applications and which are available in round, rectangular and "olive" shaped form factors.

External inductor lamps are basically fluorescent lamps with electromagnets wrapped around a part of the tube. In the external inductor lamps, high frequency energy, from the electronic ballast is sent through wires, which are wrapped in a coil around a ferrite inductor on the outside of the glass tube thus creating a powerful electromagnet called an inductor. The induction coil (inductor) produces a very strong magnetic field which travels through the glass and excites the mercury atoms in the interior. The mercury atoms are provided by the amalgam (a solid form of mercury). The excited mercury atoms emit UV light and, just as in a fluorescent tube, the UV light is down-converted to



visible light by the phosphor coating on the inside of the tube. The glass walls of the lamp prevent the emission of the UV light as ordinary glass blocks UV radiation at the 253.7 nm and 185 nm range.

In the internal inductor form (see diagram), a glass tube (B) protrudes bulb-wards from the bottom of the discharge vessel (A), forming a re-entrant cavity. This tube contains an antenna called a *power coupler*, which consists of a coil wound over a tubular ferrite core. The coil and ferrite forms the inductor which couples the energy into the lamp interior

The antenna coils receive electric power from the electronic ballast (C) that generates a high frequency. The exact frequency varies with lamp design, but popular examples include 13.6 MHz, 2.65 MHz and 250 kHz. A special resonant circuit in the ballast produces an initial high voltage on the coil to start a gas discharge; thereafter the voltage is reduced to normal running level. Download the Philips answer sheet free of charge on our website. By the way, lamp life is 100,000 hours.



(Article and Tesla photo adapted from and courtesy of Wikipedia, Induction graphic courtesy of Philips NA.)



**G**reenlee just keeps on expanding their product line with quality products from hand tools to wire and cable termination.



Their 498 page full line product catalog is second to none. They have made it easier to obtain the catalog in product groups which saves download time. Simply go to our website at <http://www.krizdavis.com> and click on Newsletter. We have links to each of the 11 catalog sections available for downloading in PDF format.



**K-D WEBSITE VENDOR OF THE MONTH**

- BENDING
- CABLE PULLING
- COMMUNICATIONS
- FISHING
- HAND TOOLS
- HOLEMAKING
- HYDRAULIC PUMPS
- ROTHENBERGER
- STORAGE AND MATERIAL HANDLING
- TESTING AND MEASUREMENT
- WIRE AND CABLE TERMINATION
- 

**I**f you need tools, think of Greenlee and Kriz-Davis Co. you can't go wrong.

Information courtesy of Matt Stuckenschmidt, sales representative for Bertsch Electrical Sales Co.



**I**n one way or the other, we all use electric tools and equipment in our everyday life. Did you know that the Burndy Company also has a line of pumps, jack hammers, tampers, chain saws, and power units that are hydraulically operated?

Their HPP5 hydraulic unit is powered by a Honda 5.5 engine with recoil start for reliability, ease of use and minimal maintenance. It's lightweight and compact weighing only 83 pounds. An air blast oil cooler/radiator system which is thermostatic controlled prevents overheating of the hydraulic oil. The frame is built of robust stainless steel and the wheel kit provides outstanding protection during use and transport.



The HHS hydraulic chain saw is available from 21 to 30 inches and it's Gerotor motor features a lifetime warranty.



The HIW716VTR1A variable torque hydraulic impact wrench features adjustable torque settings which allows the user to select the proper power and torque for any job application. Torque is controlled by dumping hydraulic flow back to tank, therefore, there is no heat build up or over-taxing of hydraulic power source.



**L**og onto our website under Newsletter to download the extensive Burndy tooling catalog free of charge.

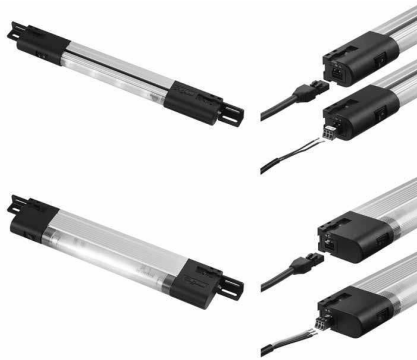
Information courtesy of Don McKee, Burndy factory representative.

# HOFFMAN

**N**ew from Hoffman are their slim-profile LED and fluorescent enclosure lights. They provide mounting flexibility and are easy to install in any enclosure. Terminal blocks on both ends of the light allow for easy wiring. Accessories include ganging cables, power cords and door switches, all provided with plug-and-play connectors for easy connection to the terminal blocks with an innovative terminal connection system. LED version provides superior lighting performance with minimal power consumption.

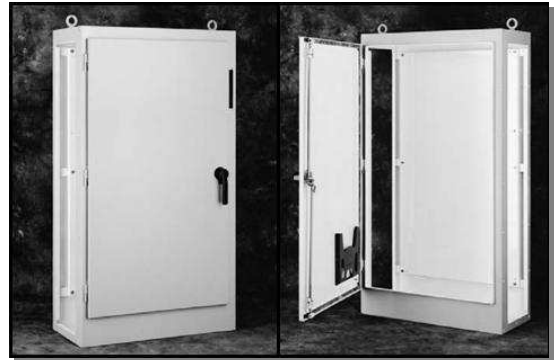
## Features include

- Slim profile allows light to be tucked up out of the way for easy panel installation.
- Versatile mounting tabs allow the light to be positioned horizontally or vertically; two-way mounting tabs can be installed on front or back of light for ideal orientation.
- Mounting tabs provide easy access point for attachment hardware; light does not need to be disassembled for installation.
- On/off switch incorporated in light; optional remote door switch accessory available to activate light when enclosure door is opened.
- Up to five lights can be daisy-chained together.
- Plug-and-play terminal connection system includes pre-wired connection sockets on both ends of light.
- Optional terminal blocks snap into the con-



nection sockets allowing you to use your own wiring methods; two terminal blocks are provided with each light kit.

- Power supply can be wired manually with



Hoffman PANELITE power cable with leads or with Hoffman optional PANELITE power cord.

- Remote door switch for easy door activation eliminates need to mount light in the exact location required to activate the light

The fixtures are constructed from extruded aluminum center supports, black composite end caps, and black composite mounting tabs. Each light fixture includes two mounting tabs, two pre-wired connection sockets, two optional terminal blocks that snap into the connection sockets and enclosure attachment hardware (bulb not included with fluorescent light)

**C**ontact your Kriz-Davis Co. branch or salesperson for additional literature and pricing. The two brochures are available for downloading from our website.

(Information courtesy of Michael Stetich, factory representative for Hoffman)

**NEVER BE AFRAID TO TRY SOMETHING NEW.  
REMEMBER, AMATEURS BUILT THE ARC AND  
PROFESSIONALS BUILT THE TITANIC**

AUTHOR UNKNOWN



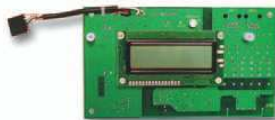
**N**eed a fire alarm system? Don't want to lay it out? Contact your Kriz-Davis Co. salesperson for assistance on General Electric / Edwards fire alarm systems and components.



GE security / Edwards Signal has available the Edwards FireShield fire alarm family which consists of 3, 5 and 10 zone conventional fire alarm control panels, serial annunciator modules, and serial remote relay modules. All of these components are microprocessor-controlled. The FireShield family is ideal for both new and retrofit installations alike.

Options for the FireShield panels include serial bus relay modules programmable for common or zone activation, serial bus remote annunciators, city tie and reverse polarity modules, and optional trim rings for semi-flush mounting.

The optional fully integrated DACT/Dialer provides 32 character LCD display, event history log, supports both contact ID and 4/2 formats, and upload/download of Panel/DACT configuration, status and event history.



Unit features and specifications;

- UL,ULC & CSFM listed, MEA approved,
- 2 or 4 Style Y notification appliance circuits.
- IDC or NAC convertible to Class A circuits (ten and five zone panels only) without additional modules.

- Supports ED2M, SC series and 2400 series detectors. A Complete list of cross-listed smoke detectors is available on request.
- Genesis option provides precision strobe synchronization and audible silence over two wires without additional modules.
- IDC programmable for alarm verified or alarm non-verified, water flow or supervisory condition.
- Programmable NACs individually selectable for Genesis, continuous or temporal output.
- Optional serial bus relay modules are programmable for common or zone activation.
- On-board relays for alarm, supervisory and trouble conditions and event history log.
- Upload/download of configuration, status and event history.

**P**lease contact us on your next fire alarm project. We have our datacom expert Robin Hubbard, factory representatives, and our sales personnel available to help with any need.

(Information courtesy of Michael Ward, sales representative for Electrical Products Company)

**I** don't need no safety belt. After all, I'm only going to be here for just a minutes and besides, I'm only 100 stores above the ground.

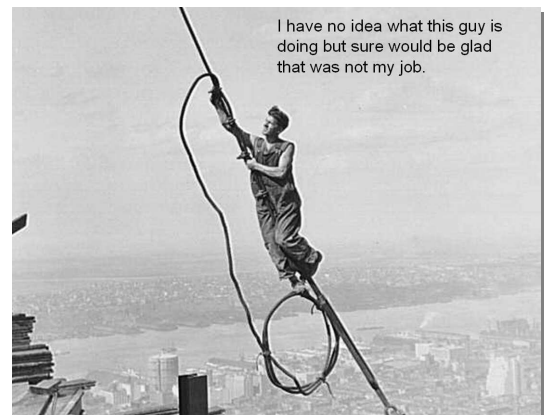


Photo courtesy of Jenny Filipowicz, K-D Co. Omaha



**D**id you ever have to disassemble a trapeze to install channel or fittings above another trapeze below? You will never have to do that again. The unique scissor action of the Trapnut™ strut fastener closes at any desired position on the threaded rod. Once closed, precision threads trap the threaded rod for a sturdy hold that can be adjusted up or down for fine-tune positioning.

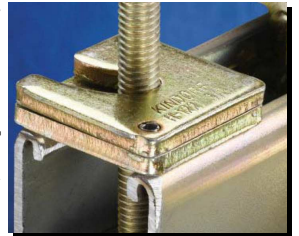


While the versatile Trapnut™ has a locking pin that holds it in the desired position, it can also be removed and reused. Unlike a Hex Nut, there is no need to thread the Trapnut™ from either end of the rod, saving valuable time on the job.

While the Trapnut™ strut fastener is a time-saver for new construction, it is also invaluable for retro-fit applications. Rather than disassembling an existing trapeze to run additional con-

duit above it, Trapnut™ can be clamped between the existing trapeze and the beam clamp for a speedy retro-fit solution. It's ideal for applications where the rod ends are not accessible.

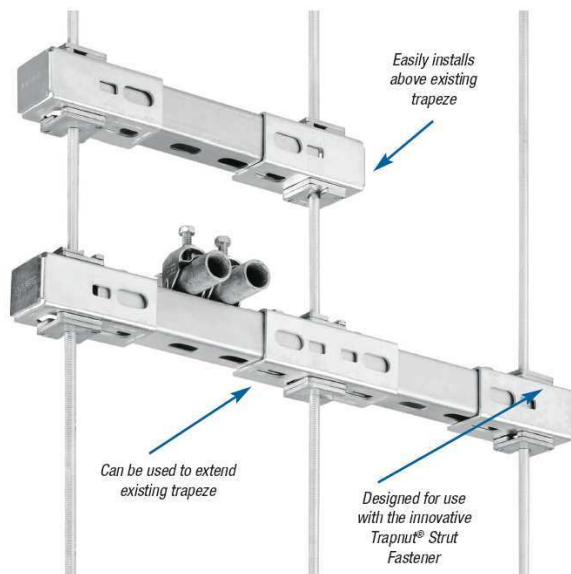
Trapnut™ has a sturdy steel construction that is load bearing, so you can be confident of a solid installation. The design load for a 1/2 inch unit is 1/2 ton. And, Trapnut™ functions as a Hex Nut, square washer and flat washer combined, so there are fewer parts to keep up with on the job.



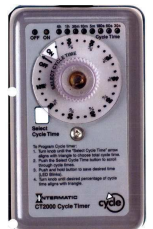
Trapnuts™ are available in 1/4, 3/8 and 1/2 inch capacities and the finish can be galvkrom, silvergalv, and type 316 stainless steel.

**P**lease contact your Kriz-Davis Co. branch location for additional information and to see a sample. A brochure is available on our website by clicking on Newsletter and using the link provided.

(Information courtesy of Mike Holloway, factory representative for Thomas and Betts Co.)



**N**ew from Intermatic is their CT2000 percentage cycle timer. It features 8 selectable time durations, 30 seconds, 1,3,5,10 and 30 minutes and 1,4 hours. The sealed enclosure handles dusty, ammonia rich or wash-down environments. Manual On or Off controls allows you to bypass cycling patterns when required and LED indicators provide constant feedback.



(Information courtesy of Matt Stuckenschmidt, representative for Joe Bertsch Electrical Sales.)



**R**etrofit all of your old incandescent cans with the new Lithonia LED kit. It is a downlight module that provides a precise 38° full width half max (FWHM) beam angle with an engineered specular upper reflector and a patented micro-prismed lense. Suitable for installation into an existing rough-in section. Also available with a dedicated rough-in section for new construction. IC rated and wet location listed.



Construction is a rugged, one-piece, die-cast heat sink design for optimal cooling efficiency. It's precisely designed elliptical upper reflector and micro-



prism lens offers precise beam control. The optics are fitted tightly to the housing to reduce the ingress of insects and dust. Lower splay recesses optical system into the ceiling to prevent glare and provide a traditional PAR look.

- Twin torsion springs ensure easy installation.
- Uses 3000K/85 CRI LEDs.
- Optics The system maintains 70% lumen output at 35,000 hours in a typical IC environment and 50,000 hours in a typical Non-IC environment.
- Electrical: All electronics are mounted on the module; no access to the junction box is required.
- Utilizes high-brightness LEDs on a metal core circuit board, ensuring cool-running operation.
- On-board circuitry to ensure protection against

wiring errors.

- High-efficiency driver mounted on the module.
- Primary power disconnect provided for simple connection to a standard Edison socket.
- Standard incandescent triac dimmers; dimming down to 25%.

The lighting module should be installed in applications where ambient temperatures do not exceed 35° C. Ambient temperatures that exceed 35°C will result in reduced lamp life and will void warranty. Standard input wattage is 12.3W, 50 lumens per watt.

The fixture is suitable for installation in standard-height rough-in sections. It is also available with a dedicated rough-in section for new construction. All units are UL listed to US safety standards wet location listed.

**P**lease go to our website to download literature and contact your Kriz-Davis Co. sales person for pricing.

(Information courtesy of Craig Daubman,  
Central Sales Lighting systems)

**T**here's nothing like a nap after a big lunch plus you can't beat the view and nice breeze 100 stores up.



(Picture courtesy of Jenny Filipowicz, Kriz-Davis Omaha)



**A**llied Molded has just released their non-metallic fan support box.



The 9375-FR fan box is for use in ceiling fan installations or 2"x4" wall cavity lighting applications. It includes factory installed mounting screw for easy rough-in installation. The fan base mounting screws are secured in recessed box area. Construction is of engineering grade thermoplastic for high strength and superior heat resistance and includes molded-in speed "K" Klamps for securing NM cable. Two 1/2" knockouts are also provided for use with pop in non-metallic cable clamps. You can reassure your customers that the box is UL listed 2-HR. fire resistive rated for wall and ceiling.

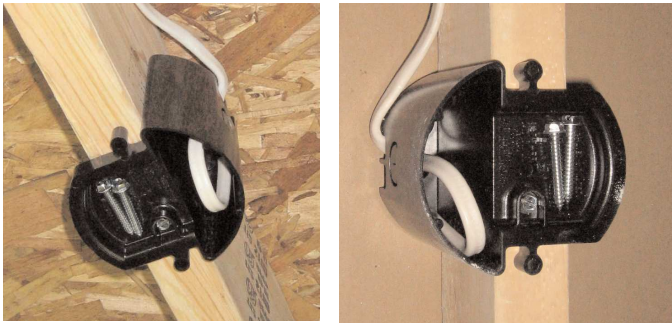


- wall cavities.
- Fettering nails for a secure mounted installation.
- Wire compartment is shipped in the open position.
- Recessed buttons for direct mounting in wood and masonry walls.
- Accepts major manufacturers' GFCI's and specification grade devices.
- Molded spline thread holes for secure device mounting.
- Offset ribs position box at exact depth.
- 2-HR UL fire resistive wall rating.



**P**lease contact your Kriz-Davis location for further information or download the brochure from our website.

(Information courtesy of Tyson Betrand, representative for the C&O Electrical Sales Co. Omaha NE)



The 9375-FR fan box shown above left is mounted on a ceiling joist prior to mounting a paddle fan and the 9375-FR shown on the right is mounted on a wall stud prior to mounting a light fixture.

**T**he new P-122SC shallow wall box includes:

- 24.0 cubic inch wiring capacity with single gang opening that addresses shallow

**T**hank you for reading this issue of the Kriz-Davis Co. E-Newsletter. Please check our website for links to literature offers in this issue. If you would like to be added to receive the newsletter free of charge, please send an email to [gjackson@krizdavis.com](mailto:gjackson@krizdavis.com) or contact your Kriz-Davis Co. salesperson.

New email address  
[kdnewsletter@krizdavis.com](mailto:kdnewsletter@krizdavis.com)

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Photo courtesy of Greg Myers, Kriz-Davis Co.