



TOGGLED[®]

Better Light. Made Right.[™]

LICENSING PROGRAM

toggled.com

An  Altair Company



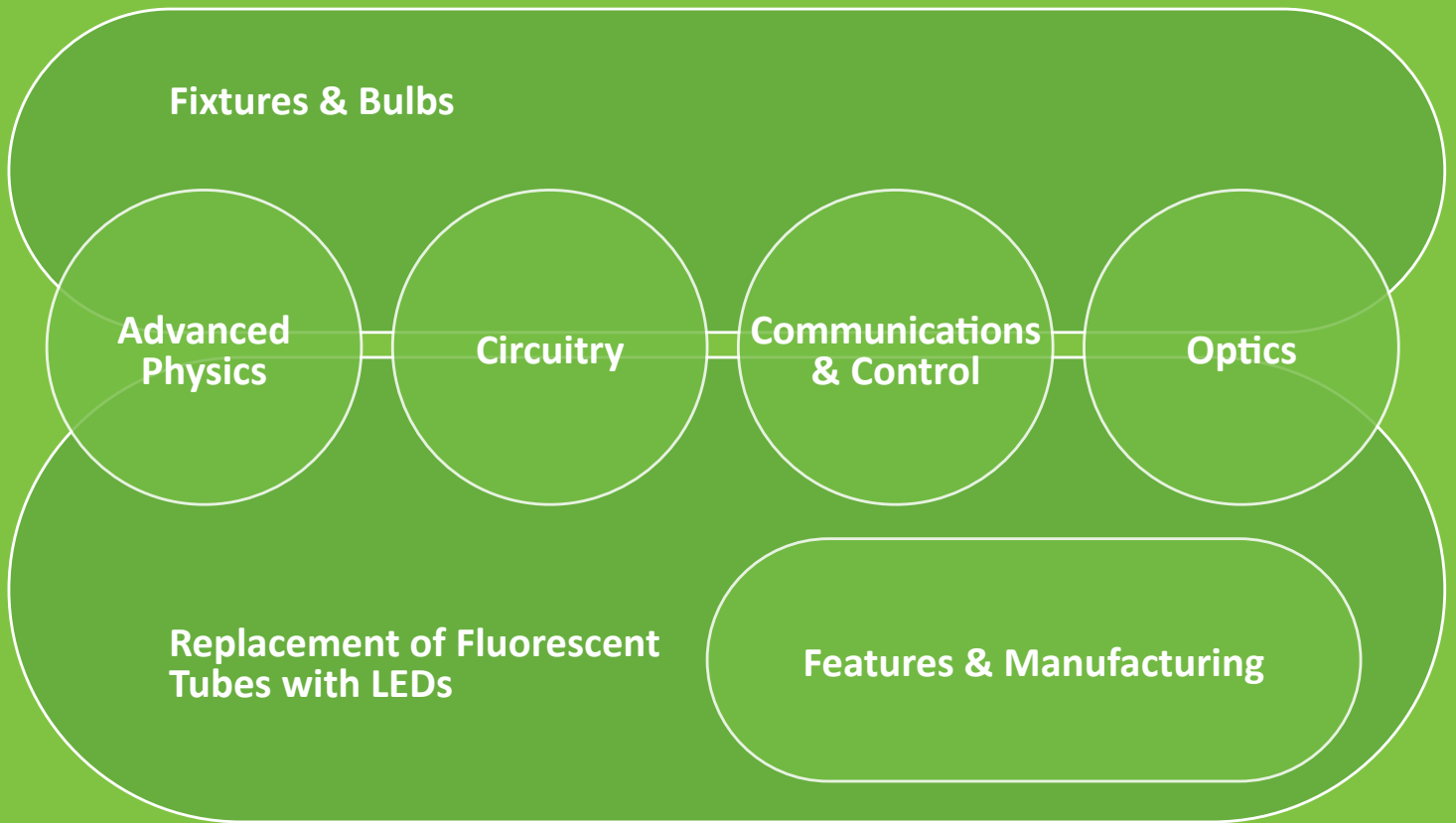
INTRODUCTION

The LED lighting industry is a rapidly evolving market with new advancements and innovations taking place every day. To accelerate the broad adoption and commercialization of LED lighting, TOGGLED believes in an open philosophy that shares, integrates and leverages intellectual property within the LED lighting manufacturing community to develop high-performance, high-efficiency solid state lighting solutions.

TOGGLED is at the forefront of the global shift from fluorescent lighting to solid-state lighting. Founded and headquartered in Troy Michigan, TOGGLED has invested millions in developing its extensive patent portfolio and capital infrastructure to produce commercial-grade LED replacements for fluorescent tubes. With dedicated resources for research and development, design, engineering and production, TOGGLED is uniquely positioned to quickly explore, evaluate, develop and incorporate new ideas and innovations for LED lighting applications.

Our goal with TOGGLED's intellectual property licensing program is to allow our licensing partners to leverage our broad innovation portfolio to build upon and develop new technologies that further the LED lighting industry as well as grow their businesses.

INTELLECTUAL PROPERTY PORTFOLIO SCOPE

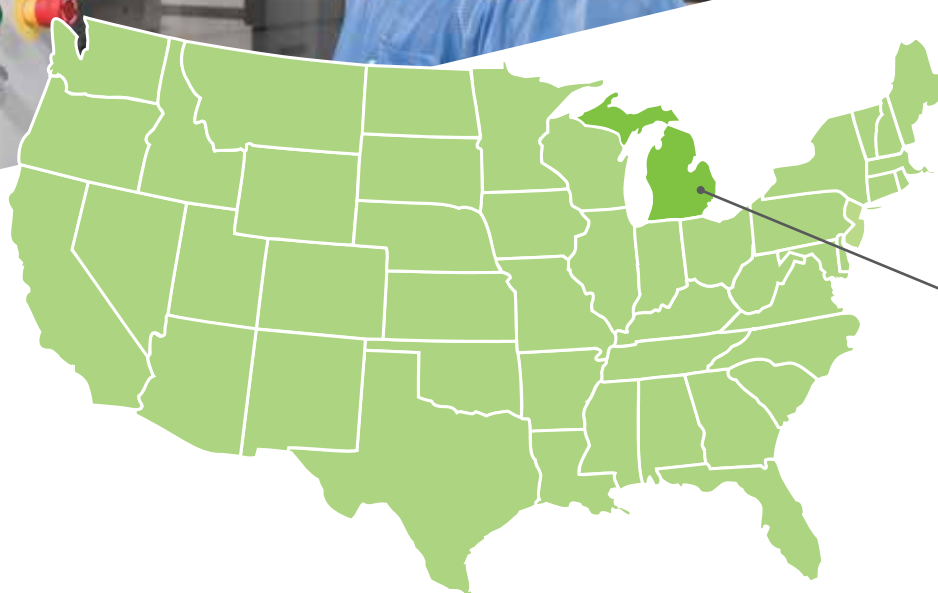




LED FLUORESCENT TUBE REPLACEMENT MARKET

The U.S. Department of Energy estimates that energy consumption for lighting can be reduced by more than 20 percent by 2020 through the use of solid-state based lighting. Today, fluorescents are the predominant lighting source for industrial and commercial applications accounting for more than half of all the lighting energy consumed in these segments.

With more than 600 million fluorescent tubes disposed of annually in the US alone, there is a significant addressable market for the replacement of fluorescent tubes with LED lighting technology. As the price and performance of LED tubes is now offering excellent payback periods, there is a clear path toward significant market penetration with LED tube retrofits such that LED market share in the tube market can climb to 20% and greater over the next few years.



TOGGLED Headquarters and Automated Manufacturing Operations - Troy, Michigan

ABOUT TOGGLED AND OUR MARKET POSITION

TOGGLED is a Michigan-based company and manufacturer of commercial-grade LED products for the replacement of fluorescent lighting. Significant investments in design and engineering, capital equipment and automation infrastructure have positioned TOGGLED as a global leader in TLED research and manufacturing efficiency of UL Classified, LM79-tested, FCC-compliant solid-state lighting. Highly engineered with impeccable quality, TOGGLED products significantly lower electricity costs and deliver a higher quality of light in office settings, industrial environments and living spaces.

Our parent company is Altair, a global leader in product design and development, computer-aided engineering software development and high-performance cloud computing technology with 2014 annual revenues exceeding \$290M. Also headquartered in Michigan with offices throughout 24 countries, Altair employs more than 2,300 designers, engineers and scientists worldwide, providing a tremendous technical resource for TOGGLED to continue enriching its licensing program with new innovations and intellectual property for our licensees.

A PATENT PORTFOLIO ENABLING LED LIGHTING INNOVATION

Following the initial patent awards for the direct replacement of fluorescent tubes with LED lighting by the United States Patent and Trademark Office, TOGGLED has expanded its intellectual property portfolio to become a leading patent holder in this LED lighting market segment.

The following is a list of TOGGLED’s issued patents and published applications, which have been licensed and are available for license.

Issued Patents*

| US Patent No. | Title | US Patent No. | Title |
|---------------|--|---------------|---|
| D597,243 | Lamp | 8,382,327 | Light Tube and Power Supply Circuit |
| D597,244 | Lamp | 8,421,366 | Illumination Device Including LEDS and a Switching Power Control System |
| D597,245 | Swing Lamp | 8,444,292 | End Cap Substitute for LED-Based Tube Replacement Light |
| D603,083 | Lamp | 8,454,193 | Independent Modules for LED Fluorescent Light Tube Replacement |
| D617,036 | Turn Lamp | 8,482,212 | Light Sources Incorporating Light Emitting Diodes |
| D650,097 | Screw-in LED Bulb | 8,523,394 | Mechanisms for Reducing Risk of Shock During Installation of LED Light Tube |
| D661,415 | Screw-in LED Bulb | 8,540,401 | LED Bulb with Internal Heat Dissipating Structures |
| 7,049,761 | Light Tube and Power Supply Circuit | 8,541,958 | LED Light with Thermoelectric Generator |
| 7,510,299 | LED Lighting Device for Replacing Fluorescent Tubes | D691750 | LED Light Tube |
| 7,510,299 | LED Lighting Device for Replacing Fluorescent Tubes - Reexamination Certificate | 8,556,452 | LED Lens |
| 7,712,918 | Light Distribution Using a Light Emitting Diode Assembly | 8,571,716 | Integration of LED Lighting with Building Controls |
| 7,815,338 | LED Lighting Unit Including Elongated Heat Sink and Elongated Lens | D692597 | LED Light Tube |
| 7,926,975 | Light Distribution Using a Light Emitting Diode Assembly | 8,573,813 | LED-Based Light with Supported Heat Sink |
| 7,938,562 | Lighting Including Integral Communication Apparatus | 8,596,813 | Circuit Board Mount for LED Light Tube |
| 7,946,729 | Fluorescent Tube Replacement Having Longitudinally Oriented LEDs | 8,628,216 | Lighting Including Integral Communication Apparatus |
| 7,976,196 | Method of Forming LED-Based Light and Resulting LED-Based Light | 8,643,298 | Illumination Device Including LEDs and a Switching Power Control System |
| 8,093,823 | Light Sources Incorporating Light Emitting Diodes | 8,653,984 | Integration of LED Lighting Control with Emergency Notification Systems |
| 8,118,447 | LED Lighting Apparatus with Swivel Connection | 8,664,880 | Ballast/Line Detection Circuit for Fluorescent Replacement Lamps |
| 8,214,084 | Integration of LED Lighting with Building Controls | 8,674,626 | LED Lamp Failure Alerting System |
| 8,247,985 | Light Tube and Power Supply Circuit | 8,678,610 | Independent Modules for LED Fluorescent Light Tube Replacement |
| 8,251,544 | Lighting Including Integral Communication Apparatus | 8,807,785 | Electric Shock Resistant LED Based Light |
| 8,256,924 | LED-Based Light having Rapidly Oscillating LEDs | 8,830,080 | Integration of LED Lighting Control with Emergency Notification Systems |
| 8,282,247 | Method of Forming LED-Based Light and Resulting LED-Based Light | 8,840,282 | LED Bulb with Internal Heat Dissipating Structures |
| 8,299,695 | Screw-in LED Bulb Comprising a Base having Outwardly Projecting Nodes | 8,866,396 | Light Tube and Power Supply Circuit |
| 8,324,817 | Light and Light Sensor | 8,870,412 | Light Tube and Power Supply Circuit |
| 8,330,381 | Electronic Circuit for DC Conversion of Fluorescent Lighting Ballast | 8,870,415 | LED Fluorescent Tube Replacement Light with Reduced Shock Hazard |
| 8,360,599 | Electric Shock Resistant LED Based Light | 8,894,430 | Mechanisms For Reducing Risk Of Shock During Installation Of Light Tube |
| 8,362,710 | Direct AC-to-DC Converter for Passive Component Minimization and Universal Operation of LED Arrays | 8,901,823 | Light and Light Sensor |
| | | 8,928,025 | LED Lighting Apparatus with Swivel Connection |

| International Patent No. | Title |
|---------------------------------|--|
| GB 2472345 | Electric Shock Resistant LED Based Light |
| CHN ZL200880120176.3 | Light Distribution using a Light Emitting Diode Assembly |
| CHN ZL201230294927.2 | LED Light Tube |
| GB 2474158 | Fluorescent Tube Replacement having Longitudinally Oriented LEDs |
| JP 5396401 | Light Distribution Using a Light Emitting Diode Assembly |
| EP 2220427B1 | Light Distribution Using a Light Emitting Diode Assembly |
| EP 2376833B1 | LED Lens |
| EP 2380406B1 | Direct AC-to-DC Converter for Passive Component Minimization and Universal Operation of LED Arrays |

Pending Patents - Published Applications

| US Patent No. | Title |
|----------------------|---|
| 2010/0321921 | LED Lamp with a Wavelength Converting Layer |
| 2011/0235318 | LED Light Tube with Dual Sided Light Distribution |
| 2012/0008314 | LED Light Tube and Method of Manufacturing LED Light Tube |
| 2012/0081894 | Incandescent LED Replacement Lamp |
| 2012/0146532 | Current Regulator Circuit for LED Light |
| 2013/0043789 | Screw-In LED Bulb |
| 2013/0050999 | Circuit Board Mount for LED Light |
| 2013/0093328 | Light and Light Sensor |
| 2013/0229122 | Illumination Device Including LEDs and a Switching Power Control System |
| 2013/0230995 | Electrical Connector Header for an LED-Based Light |
| 2013/0264951 | LED Light with Thermoelectric Generator |
| 2014/0009926 | Power Supply Assembly for LED-Based Light Tube |
| 2014/0009068 | System for Controlling Operation of an LED Light |
| 2014/0015345 | Current Limiting Circuit for Electrical Devices |
| 2014/0036492 | LED Lens |
| 2014/0055043 | Integration of LED Lighting with Building Controls |
| 2014/0126189 | Lighting Including Integral Communication Apparatus |
| 2014/0184082 | LED Lamp Failure Alerting System |
| 2014/0268727 | Diffusers for LED-Based Lights |

* Visit www.toggled.com/patents for ilumisys, Inc.'s (DBA TOGGLED) most current patent portfolio.



TOGGLED's automated production operations based in Troy, Mich. U.S.A.

BECOME A TOGGLED LICENSEE. DELIVER THE FUTURE OF LIGHTING.

Participating in the TOGGLED Licensing Program allows your business to quickly enter and capitalize on the paradigm shift away from fluorescent to LED lighting by taking advantage of our broad LED lighting patent portfolio to deliver custom and commercial LED lighting solutions.

With innovations recognized by more than 50 patents issued and dozens more pending in the U.S. and internationally, we have designed our licensing program to streamline your business's ability to rapidly integrate TOGGLED's intellectual property to develop, market and sell world class LED lighting products.

TOGGLED Licensing Program

Organizations that would like to develop, market and sell LED lighting products using TOGGLED intellectual property can begin the process of becoming an authorized licensee by visiting www.toggled.com/LicensingProgram.

Alternatively, you may contact TOGGLED's Licensing Program team at: licensingprogam@toggled.com or 1 (248) 614-2400 x1121

Royalty Terms

A simple market based royalty structure allows licensees to leverage TOGGLED's intellectual property portfolio. The royalty fee is calculated and paid quarterly and is applied at only one point in the supply chain. The royalty is enforced where ever Licensee's products that practice the TOGGLED patents are sold, distributed or manufactured in the US.

Visit www.toggled.com/LicensingProgram for more information and a list of our licensees.

TAKING YOUR NEXT STEPS WITH TOGGLED

For more information and the opportunity to expand your business through a licensing partnership with TOGGLED, please contact us online or directly for answers to your questions to become a TOGGLED licensee.

Licensing Program Team

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TOGGLED's world headquarters, research and development, and manufacturing operations anchor Altair's 136,000 square-foot Clean Technology Center.

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