

## LYNK LABS ISSUED PATENTS

Lynk Labs Products and/or Technology comprise approved and pending patents in the field of in the field of LED lighting for Circuits, Chips, Packages, Assemblies, Drive Methods, Drivers/Power Supplies, Lamps and Lighting Systems and may fall under one or more of the following Patent numbers.

<b><u>US Patent Number</u></b>	<b><u>Patent Title</u></b>
US 7489086	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 8148905	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 8531118	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 9807827	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 8742630	One Wire Self Referencing Circuits for Providing Power and Data
US 8179055	LED Circuits and Assemblies
US 8841855	LED Circuits and Assemblies
US 8177390	Electric Display Device with Integrated Lighting System
US 8648539	Multi-Voltage and Multi-Brightness LED Lighting Devices and Methods of Using Same
US 9750098	Multi-Voltage and Multi-Brightness LED Lighting Devices and Methods of using Same
US 6760380	Data Transmission Apparatus and Method
US 9198237	LED Lighting System
US 9615420	LED Lighting System
US10051703	LED Lighting System
US 9249953	LED Lamp with Selectable Beam Angle Optic Method and Apparatus
US 9247597	Color Temperature Controlled and Low THD LED Lighting Devices and Systems and Methods of Driving the Same
US 9516716	Color Temperature Controlled and Low THD LED Lighting Devices and Systems and Methods of Driving the Same
US 9693405	Devices and Systems Having AC LED Circuits and Methods of Driving the Same
US 10178715	High Frequency Multi-Voltage and Multi-Brightness LED Lighting Devices and Systems and Methods of Using Same.
US 10154551	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10091842	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10271393	Multi-Voltage and Multi-Brightness LED Lighting Devices and Methods of Using Same
US 10334680	LED Lighting System
US 10349479	Color Temperature Controlled and Low THD LED Lighting Devices and Systems and Methods of Driving Same
US 10433382	Low Flicker AC Driven LED Lighting System, Drive Method and Apparatus
US 10492251	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10492260	LED Lighting System
US 10492252	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10499466	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10499465	Hight Frequency Multi-Voltage and Multi-Brightness LED Lighting Devices and Systems and Methods of Using Same
US 10506674	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10517149	AC Light Emitting Diode and ACLED Drive Methods and Apparatus
US 10537001	Multi-Voltage and Multi-Brightness LED Lighting Devices and Methods of Using Same
US 10555385	LED Lighting System
US 10575393	AC Light Emitting Diode and AC LED Drive and Apparatus

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### **Australia Patent Number**

AU 2005216335 AC Light Emitting Diode and AC LED Drive Method and Apparatus

### **China Patent Number**

ZL 200580011640.1 AC Light Emitting Diode and AC LED Drive Method and Apparatus

ZL 03804874.4 One Wire Self Referencing Circuits for Providing Power and Data

ZL 201410149586.8 Multi-Voltage and Multi-Brightness LED Lighting Devices and Methods of using Same

### **Hong Kong Patent Number**

HK 1105508 AC Light Emitting Diode and AC LED Drive Method and Apparatus

### **Europe Patent Number**

EPO 1731003 AC Light Emitting Diode and AC LED Drive Method and Apparatus

Germany 1731003 AC Light Emitting Diode and AC LED Drive Method and Apparatus

France 1731003 AC Light Emitting Diode and AC LED Drive Method and Apparatus

United Kingdom 1731003 AC Light Emitting Diode and AC LED Drive Method and Apparatus

### **Mexico Patent Number**

MX 269561 AC Light Emitting Diode and AC LED Drive Method and Apparatus

MX 298488 AC Light Emitting Diode and AC LED Drive Method and Apparatus

MX 298034 LED Circuits and Assemblies

### **Canada Patent Number**

CA 2557465 AC Light Emitting Diode and AC LED Drive Method and Apparatus

CA 2701780 LED Circuits and Assemblies

### **Malaysia Patent Number**

MY 153548A LED Circuits and Assemblies

### **Taiwan Patent Number**

I521972 Computer Display Work Lighting System Method and Apparatus