

## 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 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	High 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

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US 10575376	AC Light Emitting Diode and AC LED Drive and Apparatus
US 10652979	LED Lighting System
US 10687400	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10757783	Color Temperature Controlled and Low THD LED Lighting Devices and Systems and Methods of Driving Same
US 10904967	LED Lighting System
US 10932341	Multi-Voltage and Multi-Brightness LED Lighting Devices and Methods of Using Same
US 10750583	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10966298	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 10986714	Lighting system having two or more LED packages having a specified separation distance
US 10980092	High Frequency Multi-Voltage and Multi-Brightness LED Lighting Devices and Systems and Methods of Using Same
US 11019697	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 11079077	LED Lighting System and Installation Methods
US 11284491	Color Temperature Controlled and Low THD LED Lighting Devices and Systems and Methods of Driving the Same.
US 11297705	Multi-Voltage and Multi-Brightness LED Lighting Devices and Methods of Using Same
US 11317495	LED Circuits and Assemblies
US 10257892	Devices & Systems Having AC LED Circuits and Methods of Driving Same
US 11638336	AC Light Emitting Diode and AC LED Drive Methods and Apparatus
US 11729884	LED Circuits and Assemblies

### **Australia Patent Number**

AU 2005216335	AC Light Emitting Diode and AC LED Drive Method and Apparatus
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### **China Patent Number**

CN 1943276A	AC Light Emitting Diode and AC LED Drive Method and Apparatus
CN 1639940A	One Wire Self Referencing Circuits for Providing Power and Data
CN 103945589B	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
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### **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**

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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
CA2785721	High Frequency Multi-Voltage and Multi-Brightness LED Lighting Devices and Systems and Methods of Using Same
CA2763598	Multi-Voltage and Multi-Brightness LED Lighting Devices and Mehtods of Using Same

### **Malaysia Patent Number**

MY 153548A	LED Circuits and Assemblies
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### **Taiwan Patent Number**

TWI521972B	Computer Display Work Lighting System Method and Apparatus
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