

## 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 10492260                    | LED Lighting System   |
| US 10499465                    | High Frequency Multi-Voltage and Multi-Brightness LED Lighting Devices and Systems and Methods of Using Same  |
| 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 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  |

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| 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 | Multi-Voltage and Multi-Brightness LED Lighting Devices and Methods of Using Same                            |
| US 11528792 | High Frequency Multi-Voltage and Multi-rightness LED Lighting Devices  |
| US 11678420 | LED Lighting System  |
| US 11566759 | LED Lighting System and Installation Methods   |
| US 12028947 | Color Temperature Controlled and Low THD LED Lighting Devices and Systems and Methods of Driving the Same    |
| US 12048077 | LED Lighting System  |
| US 12279345 | Light Emitting Diode and LED Drive Apparatus   |
| US 12435847 | Devices and System Having LED Circuits and Methods of Driving the Same                                       |
| US 11729884 | LED Circuits and Assemblies  |
| US 12477634 | LED Circuits and Assemblies  |

### **China Patent Number**

|               |   |
|---------------|---|
| 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 |

### **Mexico Patent Number**

|           |   |
|-----------|---|
| MX 298488 | AC Light Emitting Diode and AC LED Drive Method and Apparatus |
| MX 298034 | LED Circuits and Assemblies                                   |

### **Canada Patent Number**

|            |  |
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| CA 2701780 | LED Circuits and Assemblies  |
| CA2785721  | High Frequency Multi-Voltage and Multi-Brightness LED Lighting Devices |

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| CA2763598 | and Systems and Methods of Using Same<br>Multi-Voltage and Multi-Brightness LED Lighting Devices and Mehtods of Using Same |
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**Taiwan Patent Number**

|            |  |
|------------|--|
| TWI521972B | Computer Display Work Lighting System Method and Apparatus |
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