

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.

| <u>US Patent Number</u> | <u>Patent Title</u> |
|--------------------------------|---|
| 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 |

August 31, 2023

LYNK LABS ISSUED PATENTS

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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 |
| US 11528792 | High Frequency Multi-Voltage and Multi-rightness LED Lighting Devices |

Australia Patent Number

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|---------------|---|
| AU 2005216335 | AC Light Emitting Diode and AC LED Drive Method and Apparatus |
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China Patent Number

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

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|------------|---|
| HK 1105508 | AC Light Emitting Diode and AC LED Drive Method and Apparatus |
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Europe Patent Number

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

August 31, 2023

LYNK LABS ISSUED PATENTS

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

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|------------|-----------------------------|
| MY 153548A | LED Circuits and Assemblies |
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Taiwan Patent Number

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