Delta Electronics Phosphor Portfolio

2 Patent Families – 2 US Granted Patents

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Executive Summary

- RZV has been exclusively retained by Delta Electronics to offer a portfolio of two patent families covering phosphor-based color conversion for laser and solid-state light sources.
- The claims protect phosphor arrangements and layered optical structures, including the specific configurations that determine color output and control the light path.
- PW Consulting estimates the global phosphor-wheel market at US$342.5 million in 2025 and projects growth to US$563.4 million by 2032.(1)

Geo Coverage

2 US, 1 CN, 1 TW, 1 JP

US Patents:

US9229304B2

US11287730B2

Encumbrance & Other Information

Available under NDA

Transaction Type:

Sale or License

Timing:

Offers considered in the order received

(1) https://pmarketresearch.com/worldwide-phosphor-wheel-market-research/

US 9,229,304 B2, Claim 1

Title:	Phosphor device and illumination system using same
Priority:	2 April 2013
Grant Date:	5 January 2016
Est. Expiry:	14 August 2033
Independent Claims	2
Family Members	JP5868374B2

1. A phosphor device of an illumination system comprising a solid-state light-emitting element emitting a first color light in a first waveband region, comprising:
a single region including n sub-regions, wherein n is an integer greater than or equal to 2; and
n single-powder phosphor agents, comprising at least one red single-powder phosphor agent and at least one yellow single-powder phosphor agent, coated on said n sub-regions, respectively, for transforming said first color light in said first waveband region into n color lights in n different waveband regions, respectively, wherein said n color lights in said n waveband regions include a second color light in a second waveband region, a third color light in a third waveband region, . . . , and a (n+1)th color light in a (n+1)th waveband region, wherein said n sub-regions are arranged in a specific area ratio, and said second color light, said third color light, . . . , and said (n+1)th color light are integrated as a red light, a yellow light or a red-yellow light according to said specific area ratio.

US 11,287,730 B2, Claim 1

Title:	Wavelength converting device
Priority:	7 May 2020
Grant Date:	29 March 2022
Est. Expiry:	8 January 2041
Independent Claims	1
Family Members	CN113625517B TWI767602B

1. A wavelength converting device, comprising:
a substrate;
a photoluminescence layer disposed over the substrate, and configured to receive incident light and convert the incident light to excitation light;
a light spot adjusting layer disposed between the substrate and the photoluminescence layer, and configured to receive the excitation light and the unconverted incident light and to adjust the light path of the excitation light and the unconverted incident light, wherein a refractive index of the photoluminescence layer is different from a refractive index of the light spot adjusting layer; and
a reflecting layer disposed between the light spot adjusting layer and the substrate, and configured to reflect the incident light and the excitation light

For diligence materials or questions, contact Gustavo Aray

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