

LED Phosphor Intellectual Property (IP)

LED Phosphors and Down-Converters Patent Investigation

Phosphor related intellectual property has been and remains a major driving force with strong impact on the shape of the LED industry.

REPORT OUTLINE

- Title: LED Phosphors and Down-Converters Patent Investigation
- September 2013
- Patent investigation
- PDF & Excel file
- €5,990 - Multi user license (280+ slides)
- €2,490 - Executive summary (20+ slides)

KEY FEATURES OF THE REPORT

- LED phosphors market data and forecasts
- Analysis of technology key segments and key players
- Special focus on key families and configurations:
 - Garnets
 - Silicates
 - (Oxy)nitrides and carbonitrides
 - Quantum dots
 - Remote phosphors
- Overview of patent litigation and licensing
- "Phosphor IP" profiles of the main companies with key patents, compositions, configurations, strategy, litigations, licensing and partnerships
- Excel database with all patents of the company profiled in the report

RELATED REPORTS

- LED Phosphor 2012
- Status of the LED Industry
- LED Packaging
- Reverse costing analyses of the Philips 10A19/L-Prize-pro/2700-900 LED Lamp
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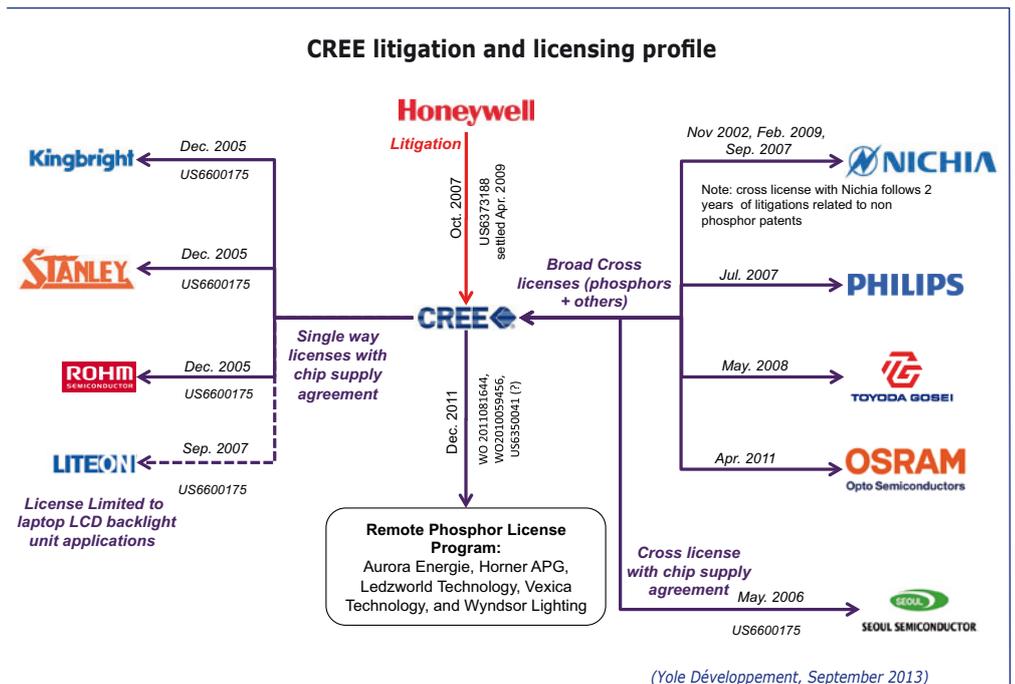
LED PHOSPHOR IP IS SHAPING THE INDUSTRY

The first commercial GaN-based blue LEDs were produced in Japan in the mid 90's after researchers Shuji Nakamura at Nichia and Professor Akasaki at Nagoya University (IP assigned to Toyoda Gosei) succeeded in removing some of the major remaining roadblocks associated with this technology (p-doping, epitaxy quality...).

Quickly leveraging on this success, some fundamental patents describing the use of a blue LED combined with a phosphor to produce white LEDs were filed by Nichia, Osram, ATMI and others. Those fundamental patents were rapidly followed by a fast growing number of applications through 2005 as an increasing number of companies started to compete in the LED market and new applications in cell phone, laptop and LCD TV display, and general lighting were being addressed.

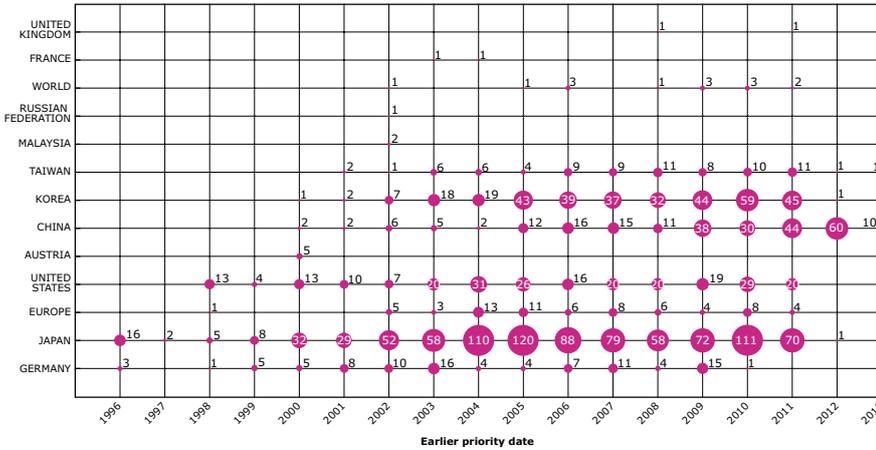
Phosphor IP is a major force in the LED industry. With more than 40 litigation cases, it is also used as leverage by companies which have negotiated close to 70 licensing and supply agreements to date. It can also be argued that in the first half of the 2000 decade, the strict enforcement and lack of license grants for some fundamental IP related to the design and manufacturing of white LEDs might also have slowed down the progress of the industry by preventing more efficient competition that would allow prices to decrease.

The report identifies the key players with the most relevant IP. It provides an overview, of phosphor related IP litigation and licensing, that has shaped the industry since the mid 90s, as well as a detailed analysis for the major players involved.



A VAST NUMBER OF RELEVANT PATENTS

Time evolution of top 13 priority countries related to phosphor materials



(Yole Développement, September 2013)

Our search strategy combines automated and manual screenings that have led to the selection of more than 4,500 relevant patent families. Those have been segmented by type (composition patent or phosphor configuration patents) and organized in various technology segments that are analyzed in detail: garnets, silicates, nitrides and oxynitrides, quantum dots. The report also includes a special focus on the emerging LED phosphor IP in China.

For each segment, the report provides a detailed analysis including the time evolution of patent filings, identification of the key players, collaborations and citation networks, as well as the identification of the key patents based-on citation and impacts in litigations.

The report also includes a companion excel database with all patents of the company profiled in the report. This database includes abstracts and hyperlinks to the original documents and allows multi-criteria searches (patent publication number, priority date, title, applicants, technological segments...)

THE KEY PLAYERS IDENTIFIED

Hundreds of companies are involved in LED phosphor IP. Most of the major LED players are present in the list of the top patent assignees. But independent phosphor manufacturers like Intematix or Mitsubishi that are offering their phosphors on the open market are also emerging as major forces in the IP landscape.

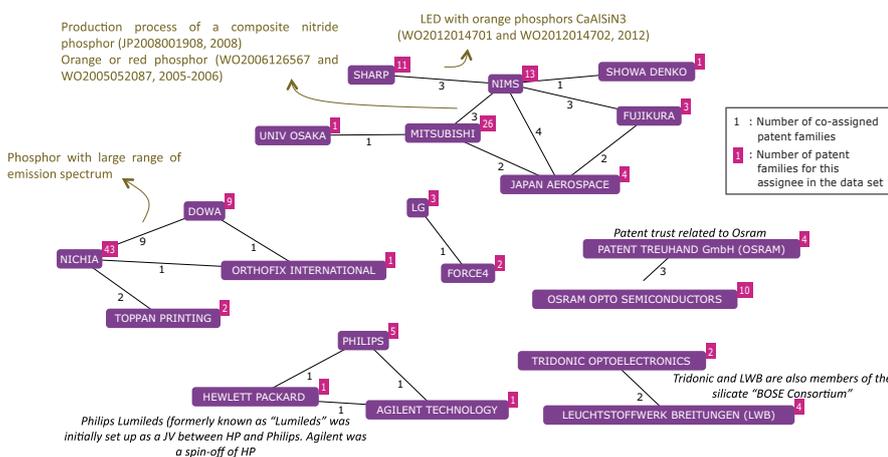
Leading Taiwan based packagers are notably absent from this ranking. This weak position explains the large number of litigations and one way, royalty or supply based license agreements involving those companies.

The report provides an analysis and ranking of the relative strength of the top Led phosphor IP holders derived from their portfolio size, patent citations networks, number of family etc...

Based on this portfolio analysis as well as on their litigation and licensing history, we have identified 15 major players that are profiled in this report. Each profile includes a detailed portfolio analysis with the time evolution of patent filing by segment as well as a list of key patents, citations, collaborations, litigations and licensing.

COMPOSITION FOCUS SHIFTING FROM YELLOW TO RED AND GREEN PHOSPHORS

Collaboration network for nitride phosphors



(Yole Développement, September 2013)

With high performing silicates now widely available as a YAG substitutes for yellow emission, the focus on new composition development and patent protection has mostly shifted toward red and green converters. The market for those new phosphors and some of the most critical IP are currently dominated by Mitsubishi and Denka, which have acquired nitrides and oxynitrides licenses from NIMS. However, many other players are also developing nitride and oxynitride compositions, including Intematix, Beijing Yuji and Lightscape (now dow electronic materials). New material families are also considered as promising phosphors including Tungstate and Molybdates as well as Fluorides championed by GE.

Following recent progress in thermal stability and manufacturability, quantum dot are also finally emerging as a credible option. Because of their narrow emission bands, LCD display is the most promising application for the technology. In lighting, the use of red QD in combination with standard phosphor could emerge in remote phosphor applications.

OBJECTIVES OF THE REPORT

This report provides a detailed picture of the patent landscape for LED phosphors and other down-converters like quantum dots.

- Understand who owns what.
- Identify key patents by composition or assignees.
- Understand trends in phosphor composition IP.
- Identify the major players in LED phosphor IP and the relative strength of their portfolio.
- Identify collaboration networks between key players (industrial and academics).
- Emerging IP from China.
- Overview of past and current litigations, licensing agreements.
- Overview of essential market data and forecast for LED Phosphors.

COMPANIES CITED IN THE REPORT (Non exhaustive list)

Advanced Optoelectronic Technology (AOT), Advanced Technilgy Material Inc (ATMI), Agilent Technologies, AgiLight, Asahi, ASP Inc, Aurora Energie, Avago, Beijing Technology and Business University, Beijing Yuji, Bright LED, CCS, Changchun Institute Of Applied Chemistry, Changchun University, Changchun University, Changshu Institute of Technology, Changshu Yatai Fluorescent Material, Chengdu University of Information Technology, Chimei Corporation, China Glaze, China Glaze, China Jiliang University... (complete list in the report)

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⁽¹⁾ Our Terms and Conditions of Sale are available at
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The present document is valid 24 months after its publishing date:
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