

附 錄

附件一 Nichia 於 2000 年後發動的訴訟列表

日期	原告	被告	系爭專利	繫屬法院	判決
2008/09 ¹⁸⁰	Nichia	Seoul Semiconductor	EP(GB)0541373	The English High Court	Settled ¹⁸¹
2008/08 ¹⁸²	Nichia	<ul style="list-style-type: none"> ➤ Seoul Semiconductor ➤ Avent¹⁸³ 	US6870191	US District Court for the Eastern District of Michigan	Settled ¹⁸⁴
2008/07 ¹⁸⁵	Nichia	<ul style="list-style-type: none"> ➤ Seoul Semiconductor Europe GmbH ➤ Conrad Electronic SE¹⁸⁶ 	EP(DE)0622858	N/A	Settled ¹⁸⁷

¹⁸⁰ Nichia Corporation, Nichia Initiates U.K. Patent Infringement Lawsuit against Seoul Semiconductor Based on The “Annealing Patent” (Sep. 16, 2008), http://www.nichia.com/about_nichia/2008/2008_091701.html (last visited Dec. 7, 2008). LEDs Magazine, Nichia Sues Seoul in The UK Over LED Annealing Patent (Sep. 18, 2008), <http://www.ledsmagazine.com/news/5/9/23> (last visited Dec. 7, 2008).

¹⁸¹ Nichia Corporation, Nichia and Seoul Semiconductor Settle Litigation and Enter Into a Cross-License (Feb. 2, 2009), http://www.nichia.co.jp/about_nichia/2009/2009_020201.html (last visited Feb. 9, 2009) (Nichia Corporation and Seoul Semiconductor Co., Ltd. announced that they have settled all litigation on patent and other issues as well as other legal disputes (“Litigations”) currently pending between them in the United States, Germany, Japan, United Kingdom, and Korea. However, with the exception of litigation in Germany involving patent DE 691-07-630 T2 of EP 0-437-385 B1, they should have been resolved following a February 2009 hearing. Before finishing the thesis, we don’t know the result yet).

¹⁸² Nichia Corporation, Nichia Brings US Patent Infringement Lawsuit against Seoul Semiconductor (Aug. 18, 2008), http://www.nichia.com/about_nichia/2008/2008_081901.html (last visited Dec. 7, 2008).

¹⁸³ Avnet is one of Seoul Semiconductor’s distributors in the U.S.

¹⁸⁴ Nichia Corporation, *supra* note 181.

¹⁸⁵ Nichia Corporation, Nichia Initiates DE Lawsuit Against Seoul Semiconductor's Acriche Products (Jul. 8, 2008), http://www.nichia.com/about_nichia/2008/2008_070801.html (last visited Dec. 7, 2008).

2008/05 ¹⁸⁸	Nichia	➤Seoul Semiconductor ➤Avnet EMG Ltd ¹⁸⁹	EP(GB)0599224 EP(GB)0622858	N/A	Settled ¹⁹⁰
2008/04 ¹⁹¹	Nichia	Seoul Semiconductor of Japan	JP3900144	Tokyo District Court	Settled ¹⁹²
2007/10 ¹⁹³	Nichia	Seoul Semiconductor	KR491482	The Seoul Central District Court	Settled ¹⁹⁴
2007/09 ¹⁹⁵	Nichia	Seoul Semiconductor	KR406201 ¹⁹⁶	The Seoul Central District Court	Settled ¹⁹⁷

¹⁸⁶ Conrad Electronic SE is one of Seoul Semiconductor's distributors in German.

¹⁸⁷ Nichia Corporation, *supra* note 181.

¹⁸⁸ Nichia Corporation, Nichia Initiates UK Lawsuit Against Seoul Semiconductor's Acriche Products (May 13, 2008), http://www.nichia.com/about_nichia/2008/2008_051401.html (last visited Dec. 7, 2008).

¹⁸⁹ Avnet EMG Ltd is one of Seoul Semiconductor's distributors in UK.

¹⁹⁰ Nichia Corporation, *supra* note 181.

¹⁹¹ Nichia Corporation, Nichia files Patent Infringement Lawsuit (2nd Lawsuit) against Japan Seoul Semiconductor Co. Ltd. over White LEDs (Apr. 24, 2008), http://www.nichia.com/about_nichia/2008/2008_042401.html (last visited Dec. 7, 2008).

¹⁹² Nichia Corporation, *supra* note 181.

¹⁹³ Nichia Corporation, Nichia Files Patent Infringement Lawsuit (2nd Lawsuit) against Seoul Semiconductor Co. Ltd. over White LEDs in Korea (Oct. 10, 2007), http://www.nichia.com/about_nichia/2007/2007_101001.html (last visited Dec. 7, 2008).

¹⁹⁴ Nichia Corporation, *supra* note 181.

¹⁹⁵ Nichia Corporation, Nichia Files Patent Infringement Lawsuit against Seoul Semiconductor Co. Ltd. over White LEDs in Korea (Sep. 17, 2007), http://www.nichia.com/about_nichia/2007/2007_091701.html (last visited Dec. 7, 2008).

¹⁹⁶ On July 23, 2008, the Korean Intellectual Property Tribunal (KIPT) ruled that Nichia's Korea patent number 406201 has been invalidated for lack of novelty. See Nichia LED patent ruled invalid in Korea, *LEDs Magazine*, Jul. 29, 2008, available at: <http://www.ledsmagazine.com/news/5/7/31>, last visited Dec. 9, 2008.

¹⁹⁷ Nichia Corporation, *supra* note 181.

2007/05 ¹⁹⁸	Nichia	▶Japan Seoul Semiconductor Co., Ltd. ▶Kyoei Sangyo Co., Ltd. ¹⁹⁹	JP3511970 JP2778349	Osaka District Court	Settled ²⁰⁰
2007/04	Nichia	Sterling ²⁰¹	JP3065263	Tokyo District Court	Settled ²⁰²
2006/11	Nichia	Argos (UK) ²⁰³	EP(GB)0952617 EP(GB)0622858 EP(GB)0936682	London High Court	Settled ²⁰⁴
2006/05	Nichia	Moeller Electric Ltd. (JP)	JP2770717 JP3356034	Osaka District Court	Settled ²⁰⁵

¹⁹⁸ Nichia Corporation, Nichia files Patent Infringement Lawsuit against Japan Seoul Semiconductor Co. Ltd. over White LEDs (Sep. 17, 2007), http://www.nichia.com/about_nichia/2007/2007_051701.html (last visited Dec. 7, 2008).

¹⁹⁹ LEDs Magazine, Kyoei Sangyo Co., Ltd. is Seoul Semiconductor's Japan distributor (Nov. 02, 2007), <http://www.ledsmagazine.com/news/4/11/5> (last visited Dec. 7, 2008).

²⁰⁰ Nichia Corporation, *supra* note 181.

²⁰¹ Sterling is a distributor of lighting products that contain white LEDs manufactured by Cotco, now part of Cree.

²⁰² LEDs Magazine, Nichia lawsuit targets Cotco LEDs in lighting product (Apr. 13, 2007), <http://www.ledsmagazine.com/news/4/4/12> (last visited Dec. 7, 2008).

Nichia Corporation, Nichia and Sharp Enter into LED and Laser Diode Patent Cross-Licensing Agreement (Nov. 21, 2008), http://www.nichia.com/about_nichia/2008/2008_112101.html (last visited Dec. 7, 2008).

²⁰³ Argos Ltd. is a UK-based high street retailer.

²⁰⁴ LEDs Magazine, Nichia achieves 150lm/W white LED, sues UK retailer (Dec. 21, 2006), <http://ledsmagazine.com/news/3/12/19/1> (last visited Dec. 7, 2008).

LEDs Magazine, Nichia settles UK lawsuit with retailer Argos (Aug. 14, 2007), <http://www.ledsmagazine.com/news/4/8/14> (last visited Dec. 7, 2008).

²⁰⁵ Nichia Corporation, Nichia filed a lawsuit against German company in Japan for Blue LED patents infringement (May 23, 2006),

http://www.nichia.com/about_nichia/2006/2006_052301.html (last visited Dec. 7, 2008). Nichia Corporation, Nichia and Moeller settled an Infringement lawsuit for Blue LED patents in Japan and agreed to business arrangement (Oct. 4, 2006), http://www.nichia.com/es/about_nichia/2006/2006_100401.html (last visited Dec. 9, 2008).

			JP3656456		
2006/04	Nichia	Everlight (億光)	TW089036	Taiwan Banchiao District Court (板橋地方法院)	Nichia won the case. Everlight should pay a damage compensation NT 80 million to Nichia. ²⁰⁶
2006/02	Nichia	Harvatek (宏齊)	TW089036	—	Warning Letter Only ²⁰⁷
2006/01	Nichia	Intermatic, Inc. (US)	US5998925	US District Court for the District of Delaware	Settled ²⁰⁸
2006/01	Nichia	<ul style="list-style-type: none"> ➤Seoul Semiconductor Ltd. (KR) ➤Seoul Semiconductor Inc. (US) ➤Creative Technology Ltd ➤Creative Holdings Inc. ➤Creative Labs Inc.(US) 	<ul style="list-style-type: none"> US D491538 US D490784 US D499385 US D503388 	US District Court for the Northern District of California	<ul style="list-style-type: none"> ➤Settled with Creative Technology, Creative Holdings Inc. and Creative Labs Inc. (US) in Nov. 2006. ➤The jury affirmed Seoul Semiconductor's willful infringement.²⁰⁹

²⁰⁶ Nichia Corporation, Nichia wins damages in LED patent ruling against Everlight (Oct. 4, 2006), <http://www.ledsmagazine.com/news/4/11/5> (last visited Dec. 7, 2008).

²⁰⁷ LEDs Magazine, Nichia warns Harvatek, drops patent claim (Feb. 21, 2006), <http://www.ledsmagazine.com/news/3/2/26> (last visited Dec. 9, 2008).

²⁰⁸ Nichia Corporation, Lawsuit with Major US Residential Electric Lighting Fixture Manufacturer Ended in Business Arrangement (Jun. 28, 2006), http://www.nichia.co.jp/about_nichia/2006/2006_062801.html (last visited Dec. 9, 2008).

²⁰⁹ LEDs Magazine, Nichia and Seoul offer different views of jury ruling (Nov. 12, 2008), <http://www.ledsmagazine.com/news/4/11/10> (last visited Dec. 7, 2008). Also see *Nichia Corp. v. Seoul Semiconductor, Ltd.*, 2008 U.S. Dist. (N.D. Cal., Apr. 8, 2008).

2005/11	Nichia	AOT (先進開發)	TW089036	Taiwan Hsinchu District Court(台灣新竹地方法院)	Withdraw ²¹⁰
2005/07	Nichia	Doshisha Corporation (JP)	JP3503139	Osaka District Court	Settled ²¹¹
2005/02	Nichia	➤JM Group Inc. (US) ➤ASP Inc. ²¹²	US5998925	California Central District Court	Settled ²¹³
2004/11	Nichia	E&E Japan Co. ²¹⁴	JP,1171193,S	Tokyo District Court	Settled ²¹⁵
2004/06	Nichia	E&E Japan Co.	JP2927279	Tokyo District Court	Settled ²¹⁶
2004/06	Nichia	Luxpia Inc. (KR)	KR992103	N/A	Settled ²¹⁷

²¹⁰ Nichia Corporation, Nichia seeks provisional injunction against Taiwanese LED maker (Nov. 26, 2005), http://www.nichia.com/about_nichia/2005/2005_111602.html (last visited Dec. 9, 2008). DigiTimes, Nichia withdraws LED patent lawsuit against AOT (Jun. 5, 2008), <http://www.DigiTimes.com/news/a20080605PD211.html> (last visited Dec. 9, 2008).

²¹¹ Nichia Corporation, Nichia seeks provisional injunction against Christmas illumination lighting (Jul. 29, 2005), http://www.nichia.com/about_nichia/2005/2005_080201.html (last visited Dec. 7, 2008). Nichia Corporation, Nichia settled lawsuit with Doshisha over Christmas illumination LEDs (Jan. 10, 2006), http://www.nichia.com/de/about_nichia/2006/2006_011001.html (last visited Dec. 9, 2008).

²¹² Both JM Group Inc. and ASP Inc. are the LED distributors in the U.S.

²¹³ Justia.com, Nichia Corporation v. JM Group Inc., case No. 2:2005cv00884, http://dockets.justia.com/docket/cacdce/case_no-2:2005cv00884/case_id-170526/ (last visited Dec. 9, 2008). Nichia Corporation, Nichia's Actions against Distributors in US (Jun. 8, 2005), http://www.nichia.com/about_nichia/2005/2005_060801.html (last visited Dec. 9, 2008).

²¹⁴ The Japanese affiliate of the Taiwanese companies Everlight (億光) and Epistar (晶電).

²¹⁵ LEDs Magazine, Nichia granted injunction against imported white LEDs (Nov. 26, 2004), <http://www.ledsmagazine.com/news/1/11/26/1> (last visited last visited Dec. 9, 2008). LEDs Magazine, Nichia settles LED patent dispute with Epistar (Apr. 10, 2006), <http://www.ledsmagazine.com/news/3/4/9> (last visited Dec. 9, 2008).

²¹⁶ Compoundsemiconductor.net, Nichia heads back to Tokyo court citing Epistar (Jun. 6, 2004), <http://compoundsemiconductor.net/cws/article/news/19734> (last visited Dec. 9, 2008). LEDs Magazine, Nichia settles white LED dispute with E&E Japan (Oct. 29, 2004), <http://www.ledsmagazine.com/news/1/10/26/1> (last visited Dec. 9, 2008).

²¹⁷ Nichia Corporation, Nichia Settled with Korean LED maker (Jun. 6, 2005), http://www.nichia.com/about_nichia/2005/2005_060601.html (last visited Dec. 7, 2008).

2004/04	Nichia	Sharper Image Co.	US5998925	US District court of Northern California	Negotiating ²¹⁸
2003/09	Nichia	Epistar (晶電)	TW160722	N/A	Nichia got preliminary injunction against Epistar's products. ²¹⁹
2003/09	Nichia	Everlight (億光)	TW160722	N/A	Nichia got preliminary injunction against Everlight's products. ²²⁰
2000/04	Nichia	Sumitomo ²²¹	JP2778405	Tokyo District Court	Dismissed ²²²

²¹⁸ Nichia Corporation, Lawsuit with US major retailer (Apr. 7, 2005), http://www.nichia.com/about_nichia/2005/2005_040701.html (last visited Dec. 9, 2008).

²¹⁹ Nichia Corporation, Preliminary Injunction Order Executed against EPISTAR, the largest GaN LED manufacturer in Taiwan (Oct. 1, 2003), http://www.nichia.com/about_nichia/2003/2003_100101.html (last visited Dec. 9, 2008).

²²⁰ Nichia Corporation, Grant of Preliminary Injunction Order against EVERLIGHT, the largest GaN LED assembly manufacturer in Taiwan (Sep. 17, 2007), http://www.nichia.com/about_nichia/2003/2003_102901.html (last visited Dec. 7, 2008).

²²¹ Sumitomo is one of Cree's distributors in Japan.

²²² Photonics.com, Tokyo Court Dismisses Nichia vs. Sumitomo (Dec. 21, 2001), <http://www.photonics.com/Content/ReadArticle.aspx?ArticleID=11311> (last visited Dec. 9, 2008).

附件二 Cree 於 2000 年後發動的訴訟列表

日期	原告	被告	系爭專利	繫屬法院	判決
2006/12	Cree	BridgeLux, Inc. (US)	US6869812 US6614056 US6885036	US District Court for the Eastern District of Texas	Pending ²²³
2006/09	➤Cree ➤ Trustees of Boston University	BridgeLux, Inc. (US)	US6657236 US5686738	US District Court for the Middle District of North Carolina	Dismissed ²²⁴
2003/06	➤Cree Lighting Company ➤ Trustees of Boston University	AXT Inc.	US5686738	Northern District of California	Settled ²²⁵
2000/09	➤Cree ➤ North Carolina	➤Nichia ➤Nichia America	US6051849	The Eastern District of North Carolina	Settled ²²⁶

²²³ In this case, Cree is as a defendant and a counterclaim-plaintiff as well. See *Bridgelux, Inc. v. Cree, Inc.* (E.D. Tex., June 3, 2008).

²²⁴ Compoundsemiconductor.net, Cree sues BridgeLux for patent infringement (Sep. 14, 2006), <http://compoundsemiconductor.net/cws/article/news/25890> (last visited Dec. 9, 2008). See *Cree, Inc. v. Bridgelux, Inc.* (M.D.N.C., Aug. 21, 2007).

²²⁵ Photonics.com, Cree, BU Settle Suit Against AXT (Mar. 23, 2004), <http://www.photonics.com/Content/ReadArticle.aspx?ArticleID=18572> (last visited Dec. 10, 2008).

²²⁶ Photonics.com, Cree Charges Nichia with Patent Infringement (Sep. 26, 2000), <http://www.photonics.com/Content/ReadArticle.aspx?ArticleID=7191> (last visited Dec. 10, 2008). Nichia Corporation, Cree and Nichia Announce Patent Cross License Agreement and Settlement of Litigation (Nov. 6, 2002), http://www.nichia.com/about_nichia/2002/2002_111301.html (last visited Dec. 10, 2008).

	State University	Corp.			
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附件三 Philips Lumileds 於 2000 年後發動的訴訟列表

日期	原告	被告	系爭專利	繫屬法院	判決
2005/11	Philips Lumileds	Epistar (晶電)	US5008718 US5376580 US5502316	➤ ITC ➤ US District Court for the Northern District of California	Philips Lumileds got ITC exclusion order against Epistar's OMA, MB, and GB products. ITC and CAFC denied Epistar's motion to stay exclusion order. ²²⁷
2003/08	Lumileds	➤ Epistar (晶電) ➤ Citizen (JP) ➤ Cecol Inc. (JP) ²²⁸	US5008718	US District Court for the Northern District of California	Settled ²²⁹
2001/08	Lumileds	UEC (國聯光電)	US5008718	the Federal District Court in Oakland	Settled ²³⁰

²²⁷ Philips Lumileds LED Lighting, ITC denies Epistar's motion to stay exclusion order in investigation initiated by Philips Lumileds (Aug. 29, 2007), <http://www.philipslumileds.com/newsandevents/releases/PR78.pdf> (last visited Dec. 7, 2008). Philips Lumileds LED Lighting, U.S. customs to begin blocking importation of LED products that infringe Philips Lumileds' patent rights (Oct. 2, 2007), <http://www.philipslumileds.com/newsandevents/releases/PR79.pdf> (last visited Dec. 7, 2008).

²²⁸ Here Citizen and its subsidiary Cecol Inc. as co-defendants were because their importation and sale of Epistar's AlGaInP LED products. However, Citizen claimed settled with Lumileds in a short period, and only the claim against Epistar was still in the case when it was in 2003.

²²⁹ Compoundsemiconductor.net, Lumileds sues Epistar over AlGaInP LED patent (Aug. 19, 2003), <http://compoundsemiconductor.net/cws/article/news/18079> (last visited Dec. 10, 2008). Compoundsemiconductor.net, Lumileds and Epistar settle AlGaInP lawsuit (Jul. 13, 2004), <http://compoundsemiconductor.net/cws/article/news/19868> (last visited Dec. 10, 2008).

²³⁰ CompoundSemi News, Lumileds Files AlInGaP Litigation Against UEC (Aug. 1, 2000), <http://www.compoundsemi.com/documents/view/news.php3?id=883> (last visited Dec. 10, 2008). The Auto Channel, Lumileds and United Epitaxy Company Settle Litigation (Aug. 30, 2001), <http://www.theautochannel.com/news/2001/08/30/028529.html> (last visited Dec. 10, 2008).

附件四 Osram 於 2000 年後發動的訴訟列表

日期	原告	被告	系爭專利	繫屬法院	判決
2006/05	Osram	▶Kingbright Electronic (今台電子) ▶Kingbright Europe GmbH (DE)	N/A	The District Court of Düsseldorf (DE)	Osram won. ²³¹
2005/07	Osram	Citizen	US 6066861	US District Court for the District of Columbia	Settled ²³²
			US 6245259		
2005/03	Osram	Citizen	US 6277301	The District Court of Düsseldorf (DE)	Settled ²³³
			US 6576930		
			US 6592780		
			US 6613247		
2004/05	Osram	Dominant (Malaysia)	US6066861	ITC	Osram won. ²³⁴

²³¹ LEDs Magazine, Osram wins LED patent dispute with Kingbright (Nov. 1, 2007), <http://www.ledsmagazine.com/news/4/11/1> (last visited Dec. 10, 2008).

²³² Osram Opto Semiconductor, All the disputes in courts between Osram and Citizen had been dismissed due to lacking of subject matter jurisdiction. Osram and Citizen end their patent disputes (Jul. 18, 2007), http://www.osram-os.com/osram_os/EN/About_Us/We_shape_the_future_of_light/Expertise/News_Expertise/OSRAM_and_Citizen_end_their_patent_disputes.jsp (last visited Dec. 10, 2008).

²³³ *Supra* note 232.

			US6245259 US6277301 US6592780 US6613247 US6376902 US6469321 US6573580		
2001/09	Osram	➤ Nichia ➤ Nichia Chemical Europe GmbH	US 6066861 US 6245259 the German Utility Model No. 297 24 382.9	➤ US District Court for the Eastern District of Pennsylvania ➤ Landgericht München	Settled ²³⁵

²³⁴ In Jan. 2006, ITC first had its investigation that Dominant didn't violate 19 U.S.C. § 1337 (Section 337) with respect to US6066861, US6245259, US6277301, US6592780 and US6613247. In the same notice, it also determined that Dominant violated section 337 with respect to US6376902, US6469321, and US6573580. See Investigation No. 337-TA-512, *USITC PUBLICATION 3944*, ITC, Aug. 2007. After Osram appealed against ITC's decision, US Court of Appeals for Federal Circuit (CAFC) concluded that the ITC's ruling of non-infringement as to the challenged product was reversed and it was affirmed by CAFC in Apr. 2008. See *Osram GmbH, and Osram Opto Semiconductors GmbH v. ITC*, 505 F.3d 1351 (Fed. Cir., 2007), and *Dominant Semiconductors Sdn. Bhd. v. OSRAM GmbH*, 524 F.3d 1254 (Fed. Cir., Apr. 23, 2008).

²³⁵ White LEDs: Toyoda launches; Nichia licenses, *The Advanced Semiconductor Magazine*, Vol. 15, No.1, Jan./Feb. 2002, p. 26. Osram Opto Semiconductor, Patent cross licence agreement between Osram Opto Semiconductors and Nichia (Jun. 24, 2002), http://www.osram-os.com/osram_os/EN/Press/Press_Releases/Press_Archive/2002/documents/P (last visited Dec. 10, 2008).

附件五 LED 產業國際大廠授權情形

日期	授權方	被授權方	授權內容	備註
2000/12	Cree	Rohm	Cree and Rohm formed a technical alliance in the area of GaN-based blue LEDs and blue-violet semiconductor lasers based on silicon carbide. They also signed a five-year exclusive license agreement. ²³⁶	—
2001/08	Lumileds	UEC (國聯光電)	US5008718	Licensed after lawsuit. ²³⁷
2002/01	Nichia	Citizen Electronics	Citizen Electronics purchased production quantities of Nichia InGaN die for the manufacture of packaged white LEDs. The packaging and sale was licensed under Nichia's white LED patent portfolio. ²³⁸	—
2002/06	Nichia	Osram	The industrial manufacture of LED and lasers made from GaN / InGaN based semiconductors and also the use of phosphor converters to	Cross licensed after lawsuit. ²³⁹

²³⁶ Photonics.com, Rohm, Cree Jointly Target Blue LED Market (Dec. 18, 2000), <http://www.photonics.com/Content/ReadArticle.aspx?ArticleID=7881> (last visited Dec. 17, 2008).

²³⁷ *Supra* note 230.

²³⁸ Nichia Corporation, NICHIA ENTERS ALLIANCE WITH CITIZEN ELECTRONICS - Citizen Electronics to Package Nichia InGaN Die Under Nichia Patent License, (Jan. 8, 2002), http://www.nichia.com/about_nichia/2002/2002_010801.html (last visited Dec. 16, 2008).

²³⁹ *Supra* note 235.

			generate white light in particular.	
2002/09	Nichia	Toyoda Gosei	Technology of III- nitride semiconductors such as Blue LEDs, respecting any and all patent rights etc.	Cross licensed after lawsuit. ²⁴⁰
2002/10	Nichia	Lumileds	Light Emitting Diode (LED) technologies	Cross licensed after lawsuit. ²⁴¹
2002/10	Osram	Rohm (JP)	White LEDs to be produced using blue emitting InGaN based chips and a suitable fluorescent converter. ²⁴²	—
2002/11	Nichia	Cree	Gallium nitride-based optoelectronic technology.	Cross licensed after lawsuit ²⁴³
2003/10	Osram	Everlight (億光)	Manufacturing and selling SMT LEDs for white and colored light, and also other white LEDs with conversion technology. ²⁴⁴	—

²⁴⁰ Toyoda Gosei, Overall Settlement Concerning Blue LED Lawsuits (Sep. 17, 2002), <http://www.toyoda-gosei.com/news/2002/020917.html> (last visited Dec. 10, 2008).

²⁴¹ Lumileds and Nichia sign cross-licensing agreement for LED technology, *PR Newswire*, Oct. 28, 2002.

²⁴² Osram Opto Semiconductor, Osram grants licence to Rohm (Oct. 2002), http://www.osram-os.com/osram_os/EN/Press/Press_Releases/Press_Archive/2002/documents/P (last visited Dec. 10, 2008).

²⁴³ See *supra* note 226.

²⁴⁴ Photonics.com, Everlight Electronics Granted LED Royalty License (Oct. 17, 2003), <http://www.photonics.com/Content/ReadArticle.aspx?ArticleID=17304> (last visited Dec. 9, 2008).

2004/01	Osram	Lite-on (光寶)	Osram has granted Lite-On a royalty bearing license to manufacture and sell surface mountable light emitting diodes (SMT LEDs) and white LEDs with conversion technology. Lite-On has granted Osram a patent license for special manufacturing processes.	Cross licensing ²⁴⁵
2004/03	Osram	Samsung	Manufacturing White LEDs by combining blue-emitting InGaN chips and a suitable fluorescent converter. ²⁴⁶	—
2004/04	Osram	Coretronic (中強光電)	Based on Osram's patents and know-how, manufacturing and marketing mercury-free flat lamps. ²⁴⁷	—
2004/04	Osram	Vishay	Manufacturing and selling LED for white light with blue emitting InGaN chips by using a suitable phosphor converter and surface-mount LEDs for high-current applications (Power SMT LEDs). ²⁴⁸	—

²⁴⁵ Osram Opto Semiconductor, Osram agrees royalty bearing cross-license with Lite-On (Jan. 28, 2004), http://www.osram-os.com/osram_os/EN/Press/Press_Releases/Press_Archive/2004/documents/H (last visited Dec. 10, 2008).

²⁴⁶ Compoundsemiconductor.net, Osram grants white LED license to Samsung (Mar. 1, 2004), <http://compoundsemiconductor.net/cws/article/news/19101> (last visited Dec. 10, 2008).

²⁴⁷ Lightingdirectory.com, Osram - Coretronic is the second strategic partner for flat lamps (Apr. 27, 2004), <http://www.lightingdirectory.com/news/article/16> (last visited Dec. 10, 2008).

²⁴⁸ Osram Opto Semiconductor, Osram and Vishay sign License Agreement for LEDs (Apr. 27, 2004), http://www.osram-os.com/osram_os/EN/Press/Press_Releases/Press_Archive/2004/documents/H (last visited Dec. 10, 2008).

2004/10	Lumileds	Epistar (晶電)	Epistar has granted to use the patents relating to absorbing-substrate AlGaInP LEDs.	Licensed after lawsuit. ²⁴⁹
2004/11	Osram	Harvatek (宏齊)	Manufacturing and selling white LEDs with conversion technology ²⁵⁰	—
2005/02	Nichia	Cree	LED technology for solid-state white lighting. (including US6600175)	Cross licensing ²⁵¹
2005/05	Cree	Stanley (JP) Rohm (JP) Cotco (HK)	US6600175 ²⁵²	—
2005/09	Osram	Ya Hsin (雅新)	White LEDs to be produced using blue emitting InGaN based chips and a suitable fluorescent converter. ²⁵³	—
2005/11	Osram	Lednium (AU)	White LEDs to be produced using blue emitting	—

²⁴⁹ *Supra* note 229.

²⁵⁰ Osram Opto Semiconductor, Osram agrees royalty bearing patent license with Harvatek (Nov. 18, 2004), http://www.osram-os.com/osram_os/EN/Press/Press_Releases/Press_Archive/2004/documents/H (last visited Dec. 10, 2008).

²⁵¹ LEDs Magazine, Cree and Nichia announces white LED cross-licensing (Feb. 11, 2005), <http://www.ledsmagazine.com/news/2/2/18> (last visited Dec. 10, 2008).

²⁵² LEDs Magazine, Cree licenses white LED patent to Stanley, Rohm, Cotco (May 19, 2005), <http://www.ledsmagazine.com/news/2/5/16> (last visited Dec. 10, 2008).

²⁵³ CompoundSemi News, Osram Licenses White LED Technology to Taiwan-based Ya Hsin Industrial (Sep. 21, 2005), <http://compoundsemi.com/documents/articles/news/5895.html#top> (last visited Dec. 10, 2008).

			InGaN based chips and a suitable fluorescent converter. ²⁵⁴	
2005/12	Cree	Kingbright Electronic (今台電子)	US6600175 ²⁵⁵	—
2006/03	Osram	Avago (US)	Osram Opto has granted Avago a patent license for several patents to manufacture and sell blue LEDs with special conversion technology (such as a phosphor) to produce a white LED. On the other side of the deal, Avago has granted Osram a patent license for LED systems including their systems for projection and flat-panel LCDs.	Cross licensing ²⁵⁶
2006/04	Philips Lumileds	Toyoda Gosei	Specific technologies in Group III-V semiconductor LED, which include blue LEDs and red LEDs.	Cross licensing ²⁵⁷
2006/05	Cree	Seoul Semiconductor	White LED technologies, including US6600175.	Cross licensing ²⁵⁸

²⁵⁴ LEDs Magazine, Osram and Lednium sign white LED license agreement (Nov. 15, 2005), <http://www.ledsmagazine.com/news/2/11/21> (last visited Dec. 10, 2008).

²⁵⁵ Cree, Cree Licenses Pioneering White LED Patent to Kingbright Electronic Co., Ltd. (Dec. 8, 2005), http://www.cree.com/press/press_detail.asp?i=1143563752093 (last visited Dec. 10, 2008).

²⁵⁶ LIGHTimes Online, Osram and Avago Sign Cross License Patent Agreement (Mar. 3, 2006), <http://www.solidstatelighting.net/news/?date=2006-03-03&id=6455> (last visited Dec. 9, 2008).

²⁵⁷ Toyoda Gosei, Toyoda Gosei and Philips Lumileds Lighting Company enter Agreement concerning LED-related patents (Apr. 3, 2006), <http://www.toyoda-gosei.com/news/2006/060403.html> (last visited Dec. 10, 2008).

²⁵⁸ LEDs Magazine, Cree, Seoul sign LED chip supply and IP agreements (May 01, 2006), <http://www.ledsmagazine.com/news/3/5/10> (last visited Dec. 7, 2008).

2006/05	<ul style="list-style-type: none"> ➤Cree ➤Intematix 	Kingbright Electronic (今台電子)	Phosphor conversion material from Intermatix and white LED patent from Cree. ²⁵⁹	—
2006/09	Cree	Lite-on (光寶)	US6600175, specifically for a system-level application targeting laptop displays. ²⁶⁰	—
2007/01	Philips Lumileds	Osram	Patents for inorganic and organic LEDs (OLED).	Cross licensing ²⁶¹
2007/07	Osram	Citizen	White LED Patent	Licensed after lawsuit. ²⁶²
2007/08	Osram	Seoul Semiconductor	Seoul can use Osram's patents in white LEDs of all sizes, in all output categories and for all areas of application. Osram is granted to use housing patents of Seoul Semiconductor.	Cross licensing ²⁶³
2007/09	Toyoda Gosei	Osram	Specific technologies in Group III-V nitride compound semiconductor LED, which include white LEDs technology.	Cross licensing ²⁶⁴

²⁵⁹ LEDs Magazine, Osram, Nichia file more white LED patent lawsuits (May 25, 2006), <http://www.ledsmagazine.com/news/3/5/24> (last visited Dec. 7, 2008).

²⁶⁰ Cree, Lite-On Licenses Cree White LED Patent for Backlighting Laptop Displays (Sep. 28, 2006), http://www.cree.com/press/press_detail.asp?i=1159448831491 (last visited Dec. 10, 2008).

²⁶¹ LEDs Magazine, Osram and Philips sign LED and OLED cross-license (Jan. 28, 2007), <http://www.ledsmagazine.com/news/3/5/24> (last visited Dec. 10, 2008).

²⁶² *Supra* note 232.

²⁶³ Azooptics.com, Osram and Seoul Semiconductor Create Patent Cross Licence Agreement (Aug. 31, 2007), <http://www.azooptics.com/Details.asp?NewsID=519> (last visited Dec. 10, 2008).

²⁶⁴ Toyoda Gosei, Toyoda Gosei and OSRAM GmbH enter Agreement concerning LED-related patents (Sep. 28, 2007), <http://www.toyoda-gosei.com/news/2007/070928.html> (last visited Dec. 10, 2008).

2007/09	Nichia	Cree	The agreements expand patent cross-license agreements which were announced in 2002 and 2005 between the two companies. It also includes additional white LED technology and certain Cree patents relating to nitride lasers.	Cross licensing ²⁶⁵
2007/10	Osram	Toyoda Gosei	InGaN semiconductor technologies that form the basis for laser diodes and LEDs in white, blue and green.	Cross licensing ²⁶⁶
2008/04	Seoul	Itswell (KR)	White LED manufacturing technology. ²⁶⁷	—
2008/05	Cree	Toyoda Gosei	LED chip and packaged LED technology (including white LED technology)	Cross licensing ²⁶⁸
2008/09	Osram	Philips Lumileds	LED-based technology used in luminaires.	Cross licensing ²⁶⁹
2008/11	Nichia	Sharp	LED and Laser Diode Patent	Cross licensing ²⁷⁰
2008/11	Seoul Semiconductor	Tridonic (DE) ²⁷¹	White LEDs using silicate-based phosphors.	Cross licensing ²⁷²

²⁶⁵ LEDs Magazine, Nichia and Cree expand LED patent cross-licensing (Sep. 18, 2007), <http://www.ledsmagazine.com/news/4/9/22> (last visited Dec. 9, 2008).

²⁶⁶ LEDs Magazine, Osram and Toyoda Gosei sign LED patent agreement (Oct. 30, 2007), <http://www.ledsmagazine.com/news/4/10/32> (last visited Dec. 9, 2008).

²⁶⁷ LEDs Magazine, Seoul wins LED patent case against AOT, licenses Itswell (Apr. 3, 2008), <http://www.ledsmagazine.com/news/5/4/8> (last visited Dec. 10, 2008).

²⁶⁸ LEDs Magazine, Cree announces patent agreement with Toyoda Gosei (May 28, 2007), <http://www.ledsmagazine.com/news/5/5/29> (last visited Dec. 9, 2008).

²⁶⁹ LEDs Magazine, Osram and Philips sign LED luminaire patent license agreement (Sep. 24, 2008), <http://www.ledsmagazine.com/news/5/9/31> (last visited Dec. 10, 2008).

²⁷⁰ Nichia Corporation, Nichia and Sharp Enter into LED and Laser Diode Patent Cross-Licensing Agreement (Nov. 21, 2008),

http://www.nichia.com/about_nichia/2008/2008_112101.html (last visited Dec. 7, 2008).

²⁷¹ Tridonic Optoelectronics GmbH is part of the Zumtobel Group, the Austria-based lighting enterprise, and is a joint venture partner with Toyoda Gosei as well.

附件六 訴訟系爭專利列表

系爭專利	內容	申請日	公告日	專利所有權人	備註
US6869812	High power allngan based multi-chip light emitting diode	2003/5/13	2005/3/22	BridgeLux Inc.	—
US6600175	Solid state white light emitter and display using same	1996/3/26	2003/7/29	Cree Inc.	Total Patent Term Adjustment: 1212 days.
US6614056	Scalable LED with improved current spreading structures	2000/11/21	2003/9/2	Cree Inc.	—
US6657236	Enhanced light extraction in LEDs through the use of internal and external optical elements	2000/11/28	2003/12/2	Cree Inc.	Total Patent Term Adjustment: 179 days.
US6885036	Scalable LED with improved current spreading structures	2003/6/25	2005/4/26	Cree Inc.	—
US5008718	Light-emitting diode with an electrically conductive window	1989/12/18	1991/4/16	Lumileds Lighting	—
US5376580	Wafer bonding of light emitting diode layers	1993/3/19	1994/12/27	Lumileds Lighting	—

²⁷² LEDs Magazine, Seoul, Tridonic sign LED cross-license agreement (Nov. 18, 2008), <http://www.ledsmagazine.com/news/5/11/16> (last visited Dec. 10, 2008).

US5502316	Wafer bonding of light emitting diode layers	1995/10/12	1996/3/26	Lumileds Lighting	—
JP2778349	Electrode material of gallium nitride compound semiconductor	1992/4/12	1993/11/5	Nichia	Invalidation of demand for appeal/trial at:2008/10/09.
EP0541373	Method of manufacturing p-type compound semiconductor	1992/11/5	1993/5/12	Nichia	Designated contracting states: DE, GB, FR, NL.
JP2778405	Gallium nitride compound semiconductor light emitting element	1993/3/12	1994/9/22	Nichia	Invalidation of demand for appeal/trial at:2008/09/22.
JP2770717	Gallium nitride semiconductor light-emitting device	1993/9/21	1995/4/7	Nichia	—
EP0599224	Light-emitting gallium nitride-based compound semiconductor device.	1993/11/19	1994/6/1	Nichia	Designated contracting states:DE, FR, GB, NL
EP0622858	Gallium nitride-based III-V group compound semiconductor device and method of producing the same	1994/4/27	2004/9/29 ²⁷³	Nichia	Designated contracting states:DE, FR, GB, IT, NL.
TW160722	具有歐姆電極之III-V族氮化鎵基化合物半導體裝置及其製造方	1994/4/27	2000/9/1	Nichia	—

²⁷³ Date of publication and mention of the opposition decision. Opponents: Osram Opto Semiconductors GmbH & Co. OHG and Toyoda Gosei Co., Ltd.

	法				
EP0952617	Gallium nitride-based III-V group compound semiconductor device	1994/4/27	2004/7/28	Nichia	Designated contracting states:DE, FR, GB, IT, NL.
JP3511970	Nitride semiconductor device and manufacture thereof, and light emitting element	1995/6/15	2000/10/6	Nichia	Invalidation of demand for appeal/trial at:2008/08/25.
JP3065263	Light emitting device and LED display using the same	1996/12/27	1998/7/21	Nichia	—
JP2927279	Light emitting diode and display device using the same	1997/7/28	1998/9/11	Nichia	—
EP0936682	Light emitting device and display device	1997/7/29	2007/11/28 ²⁷⁴	Nichia	Designated contracting states:AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
US5998925	Light emitting device having a nitride compound semiconductor and a phosphor containing a garnet fluorescent material	1997/7/29	1999/12/7	Nichia	—
JP3356034	Nitride semiconductor light-emitting element	1997/11/14	1999/6/2	Nichia	—

²⁷⁴ Corrigendum issued date (Correction of patent specification).

KR406201	Light-emitting gallium nitride-based compound semiconductor device with double heterostructure	1998/4/29	2003/11/6	Nichia	—
JP3656456	Nitride semiconductor element	1999/4/21	2000/11/2	Nichia	—
TW089036	發光二極體聯合（一）	2002/4/30	2004/4/11	Nichia	Priority date: 2001/11/02 (JP2001—032438)
US D491538	Light emitting diode	2002/5/1	2004/6/15	Nichia	Patent term: 14 years
US6870191	Semiconductor Light Emitting Device	2002/7/24	2005/5/22	Nichia	—
US D490784	Light emitting diode	2003/7/21	2004/7/1	Nichia	Patent term: 14 years
US D503388	Light emitting diode	2003/7/21	2005/5/29	Nichia	Patent term: 14 years
US D499385	Light emitting diode	2003/10/28	2004/12/7	Nichia	Patent term: 14 years
JP3900144	Method for forming light emitting diode	2003/12/2	2007/4/4	Nichia	Invalidation of demand for appeal/trial at:2008/11/07.
KR491482	Nitride semiconductor device	2004/6/14	2005/5/27	Nichia	—
US6051849	Gallium nitride semiconductor structures including a lateral gallium nitride layer that extends from an underlying gallium nitride layer	1998/2/27	2000/4/18	North Carolina State University	—

US6066861	Wavelength-converting casting composition, and its use	1998/5/20	2000/5/23	Osram GmbH	Priority date: 1996/09/20 (DE096 38 667.5)
US6376902	Optoelectronic structural element	2000/1/31	2002/4/23	Osram GmbH	Priority date: 1997/07/29 (DE197 32 646.3)
US6277301	Method of producing a wavelength-converting casting composition	2000/3/28	2001/8/21	Osram GmbH	Priority date: 1996/09/20 (DE096 38 667.5)
US6245259	Wavelength-converting casting composition and light-emitting semiconductor component	2000/8/29	2001/6/12	Osram GmbH	Priority date: 1996/09/20 (DE196 38 667.5)
US6613247	Wavelength-converting casting composition and white light-emitting semiconductor component	2000/9/1	2003/9/2	Osram GmbH	Priority date: 1996/09/20 (DE096 38 667.5)
US6812500	Light-radiating semiconductor component with a luminescence conversion element	2000/12/6	2004/11/2	Osram GmbH	Total Patent Term Adjustment: 225 days. Priority date: 1996/09/20 (DE196 38 667.5) 1996/6/26 (DE196 25 622.4)
US6576930	Light-radiating semiconductor component with a luminescence conversion element	2000/12/7	2003/6/10	Osram GmbH	Priority date: 1996/09/20 (DE196 38 667.5) 1996/6/26 (DE196 25 622.4)

US6592780	Wavelength-converting casting composition and light-emitting semiconductor component	2001/4/25	2003/7/15	Osram GmbH	Priority date: 1996/09/20 (DE196 38 667.5)
US6469321	Surface-mountable light-emitting diode structural element	2002/2/5	2002/10/22	Osram GmbH	Priority date: 1997/07/29 (DE197 32 646.3)
US6573580	Surface-mountable light-emitting diode structural element	2002/9/27	2003/6/3	Osram GmbH	Priority date: 1997/07/29 (DE197 32 646.3)
US5686738	Highly insulating monocrystalline gallium nitride thin films	1995/1/13	1997/11/11	Trustees of Boston university	—

附件七 LED 產業相關之策略聯盟

日期	參與雙方		內容	類型
2000/12	Cree	Rohm	Cree and Rohm formed a technical alliance in the area of GaN-based blue LEDs and blue-violet semiconductor lasers based on silicon carbide. They also signed a five-year exclusive license agreement. ²⁷⁵	Technical alliance / Exclusive License
2001	Lumileds	I-Chiun (一詮)		Supply
2002/01	Nichia	Citizen Electronics	Citizen Electronics will purchase production quantities of Nichia InGaN die for the manufacture of packaged white LEDs. ²⁷⁶	Purchasing
2002/03	Lumileds	Mitsubishi	Lumileds Lighting entered a strategic relationship with Mitsubishi Electric to supply the first LCD modules containing high brightness LEDs. ²⁷⁷	Technical alliance

²⁷⁵ *Supra* note 236.

²⁷⁶ *Supra* note 238.

²⁷⁷ Compoundsemiconductor.net, Lumileds to supply LED backlights for Mitsubishi displays (Mar. 19, 2002), <http://compoundsemiconductor.net/cws/article/news/6972> (last visited Dec. 17, 2008).

2003/10	Lumileds	Osram	Cree signed an agreement with Osram Opto Semiconductors for the purchase of at least 500 million LED chips over a 21-month period beginning in October 2003. ²⁷⁸	Purchasing
2004/05	Cree	Sumitomo	Cree signed an agreement with Sumitomo that Sumitomo would purchase \$160 million of Cree's LED products during Cree's fiscal year ending June 2005. ²⁷⁹	Purchasing
2004/06	Lumileds	Marubeni (JP)	Marubeni distributed Lumileds' LED chip products leveraging its established sales network to reach major electronics companies in a variety of industries. ²⁸⁰	Distribution Channel
2004/08	Lumileds	Sony	Lumileds and Sony jointly developed the LED backlight source for Sony's television application. ²⁸¹	Joint Development
2004/08	Nichia	Opto Tech (光磊)	The two companies focused on InGaN materials that are used in blue LEDs. Opto tech helped Nichia to maintain LED supply during the LED demand expanding. ²⁸²	OEM / Supply

²⁷⁸ Compoundsemiconductor.net, Cree and Osram announce new supply contract (Oct. 1, 2003), <http://compoundsemiconductor.net/cws/article/news/18304> (last visited Dec. 17, 2008).

²⁷⁹ Compoundsemiconductor.net, Cree and Sumitomo sign \$160m LED contract (May 19, 2004), <http://compoundsemiconductor.net/cws/article/news/19531> (last visited Dec. 17, 2008).

²⁸⁰ Philips Lumileds Lighting, Lumileds Expands Japanese Business Operations with New Agreement (Jun. 22, 2004), http://www.philipslumileds.com/newsandevents/releases/Lumileds_Marubeni_062204_eng.PDF (last visited Dec. 17, 2008).

²⁸¹ Philips Lumileds Lighting, Lumileds' Luxeon LEDs Power World's First LED-Based TVs from Sony (Aug. 25, 2004), http://www.philipslumileds.com/newsandevents/releases/LuxeonTV8-24_F_r0825.pdf (last visited Dec. 17, 2008).

²⁸² Compoundsemiconductor.net, Nichia cuts InGaN deal with Optotech (Aug. 6, 2004), <http://compoundsemiconductor.net/cws/article/news/20016> (last visited

2005/03	Cree	Forge Europa	Cree, Inc. has signed an agreement with Forge Europa to distribute XLamp LEDs in the United Kingdom, other European countries and Russia. ²⁸³	Distribution Channel
2005/03	Cree	Vossloh-Schwabe Optoelectronic	Cree signed an agreement with Vossloh-Schwabe Optoelectronic to distribute XLamp LEDs in Germany, Switzerland, Austria, France and the Benelux countries. ²⁸⁴	Distribution Channel
2005/05	Cree	Sumitomo	Sumitomo Corporation agreed to purchase \$200 million of Cree's chips during Cree's next fiscal year ending June 2006, while Lighting Science would use XLamps in its lighting products. ²⁸⁵	Purchasing
2005/05	Lumileds	Future Electronics	Future would be the franchised distributor for all Philips' semiconductor products in Europe. Also, Future could design in and sell Philips' portfolio of semiconductors including microcontrollers, discrettes, logic, analog and communication products. ²⁸⁶	Distribution Channel
2005/06	Cree	Osram	Cree signed a long-term agreement with Osram Opto	Purchasing

Dec. 16, 2008).

²⁸³ LEDs Magazine, Cree Lighting appoints Forge Europa as XLamp distributor (Mar. 29, 2005), <http://www.ledsmagazine.com/press/8683> (last visited Dec. 19, 2008).

²⁸⁴ LEDs Magazine, VS Optoelectronic to distribute Cree XLamp LEDs (Mar. 23, 2005), <http://www.ledsmagazine.com/news/2/3/23> (last visited Dec.19, 2008).

²⁸⁵ LEDs Magazine, Cree receives \$200 million order, XLamp design win (May 26, 2005), <http://www.ledsmagazine.com/news/2/5/23> (last visited Dec.19, 2008).

²⁸⁶ NXP Semiconductors, Philips and Future Electronics sign pan-European distribution agreement (May 31, 2005), http://www.nxp.com/news/content/file_1164.html (last visited Dec. 17, 2008).

			Semiconductors GmbH for the purchase of LED chips over a three-year period. ²⁸⁷	
2005/06	Cree	Tecnika Due srl	Cree has signed an agreement with Tecnika Due srl to distribute Cree XLamp power LEDs in Italy. ²⁸⁸	Distribution Channel
2005/07	Nichia	Opto Tech (光磊)	Nichia and Hitachi Cable each purchased 6.4% stake of Opto Tech. It was a private placement which was completed in July 2005. ²⁸⁹	Acquisition of stake
	Hitachi Cable			
2005/09	Cree	N/A	Cree Asia-Pacific Limited opened its new headquarters at the Hong Kong Science Technology Park on September 12, 2005. ²⁹⁰	New Establishment
2005/11	Nichia	Minebea (JP)	Minebea carried out a LED backlight system for LCD screens used in mobile phone handsets jointly with Nichia. ²⁹¹	Joint Development
2006/03	Lumileds	Promate Electronic (豐藝電子)	Promate was authorized for distribution of Lumileds' LED Die products in Taiwan, China and Hong Kong. ²⁹²	Distribution Channel

²⁸⁷ LEDs Magazine, Cree and Osram Opto sign three-year chip supply deal (Jun. 29, 2005), <http://www.ledsmagazine.com/news/2/6/32> (last visited Dec. 17, 2008).

²⁸⁸ LEDs Magazine, News in brief: Cree, Cotco, Philips, Future, Lumileds (Jun. 7, 2005), <http://www.ledsmagazine.com/news/2/6/8> (last visited Dec. 19, 2008).

²⁸⁹ THT Research, Nichia and Hitachi Cable purchase 12.8% of Opto Tech (Jul. 19, 2005), <http://www.emsnow.com/newsarchives/archivedetails.cfm?ID=9580> (last visited Dec. 16, 2008).

²⁹⁰ LEDs Magazine, News in brief: Cree, Lamina and TIR Systems (Sep. 13, 2005), <http://www.ledsmagazine.com/news/2/9/15> (last visited Dec. 19, 2008).

²⁹¹ LEDs Magazine, Minebea develops new LED backlight system with Nichia (Nov. 1, 2005), <http://ledsmagazine.com/news/2/11/2/1> (last visited Dec. 16, 2008).

²⁹² Philips Lumileds Lighting, Philips Lumileds and Promate Initiate Distribution Agreement for LED Die in Taiwan and China (Jun. 6, 2006), <http://www.philipslumileds.com/newsandevents/releases/PR48.pdf> (last visited Dec. 19, 2008).

2006/03	Cree	Innovative LED Technologies, S.L.	Cree signed an agreement with Innovative LED Technologies, S.L. to distribute Cree XLamp® power LEDs in Spain and Portugal. ²⁹³	Distribution Channel
2006/08	AUO (友達)	LightHouse Tech (凱鼎)	AUO acquired a 25 percent stake in LightHouse Technology Inc. ²⁹⁴	Acquisition of stake
2006/08	GE / GELcore	Nichia	General Electric bought Emcore's 49% stake in GELcore for \$100 million, and announced an alliance with Japanese LED manufacturer Nichia. The detail of alliance had been guessed that most likely involve Nichia continuing to supply LEDs to GELcore, and the two companies sharing IP in device technology and phosphor development. ²⁹⁵	Strategic Alliance / Supply
2006/11	Cree	Arrow	Cree signed a global distribution agreement with Arrow Electronics, Inc. to sell and support Cree XLamp® products worldwide. ²⁹⁶	Distribution Channel
2007/01	Cree	WPI ²⁹⁷	Cree signed a distribution agreement with World Peace	Distribution Channel

²⁹³ LEDs Magazine, Cree appoints distributor in Spain and Portugal (Mar. 15, 2006), <http://www.ledsmagazine.com/press/11767> (last visited Dec. 19, 2008).

²⁹⁴ Lisa Wang, *AUO confirms stake in LED packager*, TAIPEI TIMES, Aug. 23, 2006, available at <http://www.taipetimes.com/News/biz/archives/2006/08/23/2003324517> (last visited Dec. 17, 2008).

²⁹⁵ LEDs Magazine, GE takes full control of GELcore, teams with Nichia (Aug. 31, 2006), <http://www.ledsmagazine.com/news/3/8/25> (last visited Dec. 19, 2008).

²⁹⁶ LEDs Magazine, Cree signs global distribution agreement with Arrow (Nov. 06, 2006), <http://www.ledsmagazine.com/news/3/11/3> (last visited Dec. 19, 2008).

²⁹⁷ WPI is a member of WPG Holdings, a electronic distributor in Asia.

		(世平)	Industrial Co., Ltd. (WPI) to sell and support Cree XLamp(R) products in China, Asia Pacific and Japan. ²⁹⁸	
2007/01	Osram	RS Components (UK)	Osram announced a distribution agreement to with RS Components provide on-line shop in Europe and Aisa. ²⁹⁹	Distribution Channel
2007/11	Osram	Arrow	Osram announced a distribution agreement with Arrow Electronics Inc. The agreement is intended to help drive the adoption of LED lighting technology by manufacturers across several industries. ³⁰⁰	Distribution Channel
2008/04	AUO (友達)	Lextar (隆達電子)	AUO established Lextar in April 2008 to develop LEDs for LCD panel backlighting applications. The revenue contribution from Lextar will not begin until the second half of 2009. Lextar will also begin cooperating with Japan-based LED makers to avoid any patent disputes. ³⁰¹	New Establishment
2008/09	Cree	<ul style="list-style-type: none"> ➤Premier Farnell ➤Digi-Key³⁰² 	<ul style="list-style-type: none"> ➤Cree Inc. signed an agreement with Digi-Key for the distribution of Cree's high-performance LEDs. ➤Cree and Premier Farnell plc signed a global distribution 	Distribution Channel

²⁹⁸ LEDs Magazine, Cree and WPI sign distribution agreement for Asia (Jan. 1, 2007), <http://www.ledsmagazine.com/press/14880> (last visited Dec. 19, 2008).

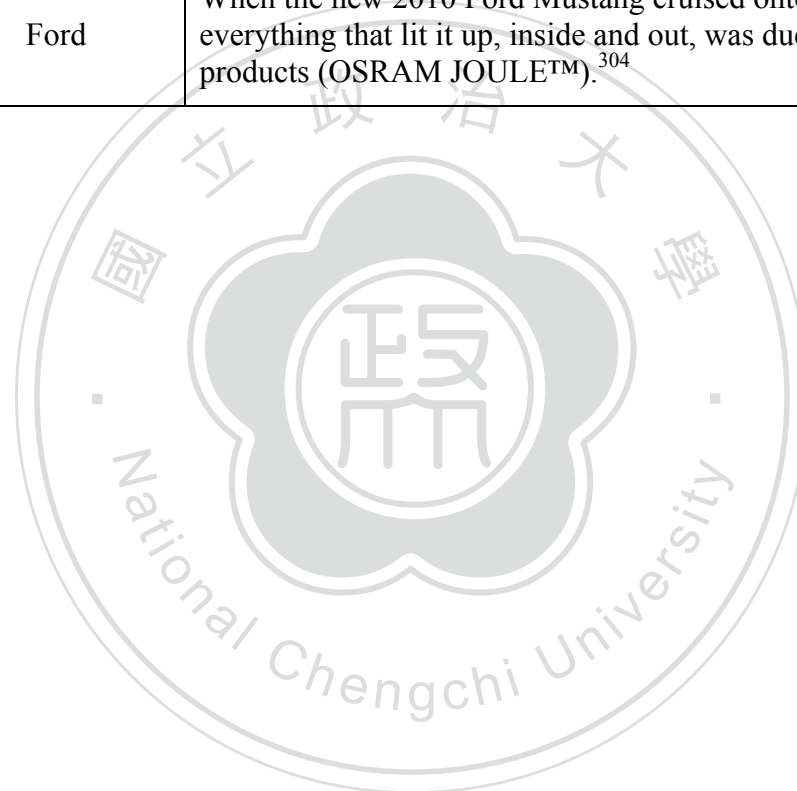
²⁹⁹ LEDs Magazine, OSRAM Opto chooses RS to provide its online Light Shop in Europe and Asia (Jan. 16, 2007), <http://www.ledsmagazine.com/press/14760> (last visited Dec. 19, 2008).

³⁰⁰ LEDs Magazine, Osram Sylvania signs distribution deal with Arrow (Nov. 20, 2007), <http://www.ledsmagazine.com/news/4/11/21> (last visited Dec. 19, 2008).

³⁰¹ LEDinside, AUO expects to achieve goal of adopting LED BLUs for all of its notebook LCD panels by 2010 (Jul. 28, 2008), http://www.ledinside.com/AUO%20expects%20to%20achieve%20goal%20of%20adopting%20LED%20BLUs%20for%20all%20of%20its%20notebook%20LCD%20panels%20by%202010_20080728 (last visited Dec. 17, 2008).

³⁰² Digi-Key, a broad-line distributor of electronic components and accessories since 1972, has been distributing Cree's energy-saving power components since 2007.

			agreement to distribute the full standard portfolio of Cree LEDs. ³⁰³	
2008/11	Osram	Ford	When the new 2010 Ford Mustang cruised onto the stage, everything that lit it up, inside and out, was due to Osram's products (OSRAM JOULE™). ³⁰⁴	Technical alliance



³⁰³ LEDs Magazine, Cree signs agreements with two distributors (Sep. 18, 2008), <http://www.ledsmagazine.com/news/5/9/24> (last visited Dec. 19, 2008).

³⁰⁴ LEDinside, New 2010 Ford Mustang Features OSRAM's LED-powered Signal Lighting (Nov. 25, 2008), http://www.ledinside.com/New_2010_Ford_Mustang_Features_OSRAM_LED-powered_Signal_Lighting_20081125 (last visited Dec. 19, 2008).