Thomas L. Credelle
Curriculum Vitae

Professional Summary

Mr. Credelle is a recognized expert in the flat panel/touch industry with over 40 years of expertise in all aspects of flat panel displays, LEDs, LED displays, and optics. He has made significant contributions in the areas of R&D, engineering, marketing, and senior management. He has served at an executive level at start-up businesses within major corporations and start-up companies in Silicon Valley and has had extensive interaction with flat panel producers and customers in Japan, Taiwan, Korea and China. Mr. Credelle holds 84 issued US patents in various flat-panel related technologies including display design, display electronics, materials, algorithms, systems, RFID, and optics, with additional pending.

Mr. Credelle is a Fellow of the Society for Information Display and currently consults regarding technology, business, and patent issues involving Flat Panel Display and LED Technology for various companies. He has written expert-analysis reports for private clients on patent portfolios of over 500 patents and has written numerous IPR ITC, and District Court Case reports and has given depositions on many. He has testified in two District Court cases and one ITC case.

Expertise

- Flat Panel Display Technology
- LEDs and LED lighting
- Display electronics
- Electro-optics
- Patent analysis
- Expert witness (reports, testimony)
- TFT and Liquid Crystal Display R&D

Education

Year	College or University	Degree
1970	Massachusetts Institute of Technology	M.S., Electrical Engineering Emphasis: Electro-optics and Solid State Physics Thesis: "Optical Properties of High Purity Stannic Oxide"
1969	Drexel University	B.S., Electrical Engineering (Honors Program)

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Professional Experience

From: 2008
To: Present
Organization: **TLC Display Consulting**
Title: President
Summary:
- Technical consulting in the field of flat panel displays, LEDs, and display electronics
- Business/patent consulting in the fields of displays, LEDs, optics, new technology

From: 2016
To: 2018
Organization: **RealD**
Title: Acting CEO, RealD Me (2016-2017), Strategic Advisor, RealD 2017-2019)
Summary:
- Business and technical advisor to RealD Intelligent Backlight Business Unit

From: 2012
To: 2016
Organization: **Innova Dynamics, Inc.,** San Francisco, CA
Title: VP, Application Engineering and Device Performance
Summary:
- Primary interface between customer and product engineering
- Testing and qualification of all products
- Business development/technical contact for new opportunities

From: 2008
To: 2018
Organization: **Display Engineering, Inc.** San Jose, CA
Title: Contractor
Summary:
- Design and testing of high-brightness LED backlights for outdoor signage
- Circuit design and thermal analysis of LED light bars
- Developed new methods for passive cooling of LED light sources

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From: 2007
To: 2008
Organization: **Puredepth, Inc**., Redwood City, CA and Auckland, NZ
Title: Senior VP Engineering
Summary:

- Recruited to establish first senior management leadership position for hardware and software engineering related to Puredepth's Multi Layer Display (MLD) technology.
- Rapidly learned details of technology, established new development plans, and supported customer engagements in US, Korea, and Japan.
- Divided time between US and NZ offices, supporting sales/marketing and leading engineering effort.

From: 2001
To: 2007
Organization: **Clairvoyante, Inc**, Cupertino, CA
Title: VP Engineering
Summary:

- Responsible for engineering, product development, product roadmap, marketing of technology that improves resolution and reduces power of color flat panel displays.
- Responsible for applied R&D, IC development, customer training and support for all technology integration programs.
- Creation of new intellectual property to advance adoption of Clairvoyante technology.
- Monthly interaction with leading LCD producers in Taiwan, Korea, Japan; management of all vendors relating to product development (8-10 on-site visits per year).

From: 1999
To: 2001
Organization: **Alien Technology Corporation**, Morgan Hill, CA
Title: VP of Operations
Summary:

- Key member of management team to develop novel technology for nanoblock-IC assembly using fluidic process. Responsible for facilities, manufacturing operations, IT, and HR; managed $20M construction project for mfg.
- Key contributor to display-related use of Alien manufacturing processes.
- Contributed to patent portfolio for Alien with key inventions in Nanoblock™ IC manufacturing techniques for displays and RFID tags.

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From: 1996
To: 1999
Organization: **Motorola**, Flat Panel Display Division, Tempe, AZ
Title: Director, Product Marketing
Summary:

- Responsible for establishing market direction and initial sales approach for new Field Emission Displays (FED) under development within the Division.
- Won potential business for initial small FEDs in industrial and automotive applications.
- Established and managed marketing communications department, creating new brand image for product as well as managing all trade show activities.
- Contributed to product development and spec generation. Generated patent disclosures aimed at solving customer-related issues.

From: 1994
To: 1996
Organization: **Allied Signal**, Los Gatos, CA
Title: Director, Advanced Product Marketing
Summary:

- Responsible for establishing product marketing direction and establishing customer contacts for newly-developed optical films for viewing angle enhancement for LCDs.
- Participated in product development, product improvement based on customer input.

From: 1991
To: 1994
Organization: **Apple Computer**, Cupertino, CA.
Title: Manager, Display Engineering
Summary:

- Responsible for all LCD engineering and qualification for first PowerBook notebook computers introduced to market.
- Extensive interaction with Asian suppliers.
- Generated patent disclosures related to LCD integration in notebook PCs

From: 1986
To: 1991
Organization: **GE** R&D Center, Schenectady, NY
Title: Manager, TFT LCD Research and Development
Summary:

- Managed R&D in TFT and LCD technology for avionics applications. Led the team that built the first 1 million pixel color LCD. Led development of various optical devices based on liquid crystal materials.
- Established photonics effort based on liquid crystal technology.

From: 1970
To: 1986
Organization: **RCA** Sarnoff Labs, Princeton, NJ
Title: Individual Contributor, then Group Manager
Summary:

- Increasing levels of responsibility in the R&D of optical materials and flat panel displays.
- Key contributor to novel methods for large screen flat panel TFT.
- Established TFT LCD Program at Sarnoff Labs in 1983.
- Led development of first polySi TFT LCDs at Sarnoff Labs.

Legal Consulting

Expert Engagement:
Type of Matter: Deposition on patent dispute
Client: Alien Technology
Case Name: Alien v. Avery, Case No. 08-cv-00795
Services Provided: Deposed as expert and inventor on behalf of Alien
Date: October 29, 2008

Expert Engagement:
Type of Matter: Patent Infringement, LCD Projection
Client: McKenna Long & Aldridge LLP
Case Name: Undisclosed
Services Provided: Non-testifying expert on ITC case
Date: November 2011

Expert Engagement:

Type of Matter:	LCD backlight
Client:	Steptoe and Johnson LLP on behalf of LG
Case Name:	In the Matter of Certain Devices for Improving Uniformity Used in a Backlight Module and Products Containing the Same Inv. No. 337-TA-805
Services Provided:	Non-testifying expert on ITC case (settled)
Date:	November 2011

Expert Engagement:

Type of Matter:	Display driving method for eBooks
Client:	Klarquist Sparkman LLP on behalf of Amazon (v. Positive Technologies)
Case Name:	2:11-cv-2226, N.D. Calif.
Services Provided:	Expert Reports, Testifying Expert (settled)
Date:	October 2012 – April 2013

Expert Engagement:

Type of Matter:	Display driving method for eBooks
Client:	Alston and Bird LLP on behalf of Barnes and Noble (v. Positive Technologies)
Case Name:	3:11-cv-02226-SI
Services Provided:	Testifying expert on District Court Case (settled) Non infringement and non-enablement reports written.
Date:	March 2013 – July 2013

Expert Engagement:

Type of Matter:	LCD driving method
Client:	Kenyon and Kenyon LLP on behalf of Sony (v. Surpass)
Case Name:	IPR2015-0863
Services Provided:	IPR Reports and Deposition
Date:	Jan 2015-Mar 2016

Expert Engagement:

Type of Matter:	LCD Optics and TFT design
Client:	Marc Labgold on behalf of Funai (v. Gold Charm Ltd.)
Case Name:	IPR2015-01448
Services Provided:	IPR Report
Date:	Apr, 2015 – Jul, 2015

Expert Engagement:

Type of Matter:	LCD Backlights using LEDs
Client:	Shearman & Sterling LLP/Fried Frank LLP on behalf of Mercedes Benz (v. Innovative Display Technologies)
Case Name:	IPR2015-01995, IPR2015-01115, IPR2015-01113 and 2: 14-cv-00535 TXEDC
Services Provided:	IPR Expert Reports
Date:	Mar 2015 – May 2015

Expert Engagement:

Type of Matter:	TFT array and LCD panel interconnect
Client:	Covington & Burling on behalf of Samsung Display Co. (v. MiiC & Partners)
Case Name:	IPR205-01469, IPR2015-01499
Services provided:	IPR Expert Reports
Date:	May 2015- Mar 2016

Expert Engagement:

Type of Matter:	LCD Backlights using LEDs
Client:	Mayer Brown on behalf of KJ Pretech (v. Innovative Display Technologies)
Case Name:	IPR2015-01866, IPR2015-01867, IPR2015-01868
Services Provided:	IPR reports and depositions (3)
Date:	Aug 2015-Jun 2016

Expert Engagement:

Type of Matter:	LCD backlights using LEDs
Client:	Gibson, Dunn, and Crutcher LLP on behalf of Vizio (v. Delaware Display Group LLC)
Case Name:	Case No. 13-cv-2112
Services Provided:	Non-infringement Report, Deposition, Testifying Expert (settled)
Date:	Sep 2015-Mar 2017

Expert Engagement:

Type of Matter:	LCD manufacturing, TFT array design
Client:	Sughrue Mion PLLC on behalf of TCL
Case Name:	Arbitration (Hong Kong) between AUO and TCL
Services Provided:	Non-infringement analysis of TFT array design (settled)
Date:	Jun 2017 – Sep 2017

Expert Engagement:

Type of Matter:	LED display panels
Client:	Adduci Mastriani & Schaumberg on behalf of Ultravision Technologies LLC (v. >20 Chinese companies)
Case Name:	ITC Case 337-TA-1114
Services Provided:	Expert Reports (Invalidity and Non-infringement) and Deposition (3 days)
Date:	Jan 2018 – Feb, 2019

Expert Engagement:

Type of Matter:	LCD gamma circuit
Client:	K&L Gates on behalf of Wistron (v. plaintiff Phenix Longhorn)
Case Name:	IPR2018-01255, 2:17 cv-00711 TXEDC
Services Provided:	Expert report and Expert Testimony as needed (settled)
Date:	May 2018 – Jun 2019

Expert Engagement:

Type of Matter:	LED packaging
Client:	Davidson, Berquist, Jackson & Gowdey, LLP on behalf of Document Security Systems (v. defendants Seoul Semiconductor, Nichia Corp, Cree, Inc., Everlight Electronics)
Case Name:	IPR2018-00966, 2018-01165
Services Provided:	Expert Reports, Depositions (2) and Expert Testimony at trial as needed
Date:	June 2018 – May 2019

Expert Engagement:

Type of Matter:	TFT-LCD technology
Client:	Vinson and Elkins on behalf of AUO (v. plaintiff Vista Park Ventures)
Case Name:	2:18 cv-00276, 00278, 00279 TXEDC
Services Provided:	Expert reports and Expert Testimony as needed (settled)
Date:	Dec 2018 – Sep 2019

Expert Engagement:

Type of Matter:	LED Display Panels
Client:	Fabricant LLP on behalf of Plaintiff Ultravision (v. >10 companies)
Case Name:	2:18 cv-00112, 00118, 00150 TXEDC
Services Provided:	Expert report and Expert Testimony as needed; two days deposition in 2020, two depositions in 2021. **Testified at trial May 2021**
Date:	Jan 2019 – Present

Expert Engagement:

Type of Matter:	TFT-LCD technology
Client:	McDermott, Will and Emery on behalf of TCL (v. plaintiff Vista Park Ventures)
Case Name:	2:19 cv-00188, 00189, 00190, 00191 TXEDC
Services Provided:	Expert reports and Expert Testimony as needed (settled)
Date:	Aug 2019 – Oct 2019

Expert Engagement:

Type of Matter:	TFT-LCD technology
Client:	McDermott, Will and Emery on behalf of GiantPlus (v. plaintiff Vista Park Ventures)
Case Name:	2:19 cv-00183, 00184, 00185, 00187 TXEDC
Services Provided:	Expert reports and Expert Testimony as needed (settled)
Date:	Oct 2019 – Jan, 2020

Expert Engagement:

Type of Matter:	TFT-LCD technology
Client:	Vincent and Elkins on behalf of JDI (v. plaintiff Vista Park Ventures)
Case Name:	2:19 cv-00323, 00324, 00325 TXEDC
Services Provided:	Expert reports and Expert Testimony as needed (settled)
Date:	Nov 2019 – Jun 2020

Expert Engagement:

Type of Matter:	TFT-LCD technology
Client:	Sidley on behalf of LG Electronics (v. defendant Hisense)
Case Name:	2:19 cv-09474 CACDC
Services Provided:	Expert reports and Expert Testimony as needed (settled)
Date:	Feb. 2020 – Jan. 2021

Expert Engagement:

Type of Matter:	Quantum dot technology
Client:	Murtha Law on behalf of RPI (v. defendant Samsung)
Case Name:	2:19 cv-20097 KM-ESK
Services Provided:	Expert reports and Expert Testimony as needed
Date:	Jan. 2020 – Jun 2021

Expert Engagement:

Type of Matter:	OLED, touch panels
Client:	RAK Law on behalf of Solas (v. defendant Samsung)
Case Name:	2:19-cv-00152-JRG (E.D. Tex)
Services Provided:	Expert reports and Expert Testimony; two depositions in 2020. **Testified at trial Mar. 2021**.
Date:	Apr. 2020 – Mar. 2021

Expert Engagement:

Type of Matter:	LCD technology
Client:	Morgan Lewis on behalf of Fuji Film (v. plaintiff Vista Park Ventures)
Case Name:	2:20 cv-00064, 65, 66 E.D. Tex.
Services Provided:	Expert reports and Expert Testimony as needed (settled)
Date:	Jul. 2020 – Oct 2020

Expert Engagement:

Type of Matter:	Touch panels
Client:	DLA Piper, Alston and Bird, on behalf of Microsoft, Dell (v. plaintiff Neodron)
Case Name:	2:19-cv-00318-ADA (W.D. Tex)
Services Provided:	Expert Reports and Expert Testimony as needed (settled)
Date:	Aug. 2020 – Nov. 2020

Expert Engagement:

Type of Matter:	LCD
Client:	Vincent and Elkins on behalf of Japan Display Inc (v. defendant Tianma)
Case Name:	2:20-CV-00283, 284, 285-JRG (E.D. Tex)
Services Provided:	Expert Reports, depositions, and Expert Testimony as needed (settled)
Date:	Jan 2021 – Jan 2022

Expert Engagement:

Type of Matter:	LCD
Client:	Perkins Coie on behalf of Truly Semiconductor, Hannstar (v. plaintiff Vista Park Ventures)
Case Name:	2:20-CV-250, 251, 252 (E.D. Tex)
Services Provided:	Expert Reports and Expert Testimony as needed (settled)
Date:	Jan 2021 – June 2021

Expert Engagement:

Type of Matter:	Quantum dots
Client:	Mintz on behalf of Nanoco (v. defendant Samsung)
Case Name:	2:20-CV-00038-JRG (E.D. Tex)
Services Provided:	Expert Reports, depositions, case settled day before trial opening arguments
Date:	Jan 2021 – Jan 2023

Expert Engagement:

Type of Matter:	OLED circuits
Client:	Morrison Forster on behalf of JOLED (v. defendant Samsung)
Case Name:	Case No. 6:20cv559 (W.D. Tex.)
Services Provided:	Expert Reports and Expert Testimony (settled)
Date:	July 2020 – April 2021

Expert Engagement:

Type of Matter:	OLED circuits
Client:	Perkins Coie on behalf of AUO (v. defendant Samsung)
Case Name:	TBD
Services Provided:	Expert Reports and Testimony (settled)
Date:	Feb. 2021 – May 2021

Expert Engagement:

Type of Matter:	LED circuits
Client:	Kim IP on behalf of CAST Lighting (v. Plaintiff WAC Lighting)
Case Name:	ITC Inv. No. 337-TA-1261
Services Provided:	Expert Reports and Testimony (settled)
Date:	May 2021 – Oct 2021

Expert Engagement:
Type of Matter: OLED circuits
Client: RAKLaw on behalf of Solas, Ltd. (v. Defendant Samsung)
Case Name: ITC Inv. No. 337-TA-1243
Services Provided: Expert Reports and **Testified at Hearing Nov. 15-19, 2021**
Date: May 2021 – Dec 2021

Expert Engagement:
Type of Matter: OLED circuits
Client: PV Law on behalf of TCL (vs. Plaintiff SEL Co.)
Case Name: 8:21-cv-00554-JAK-ADS (CDCA)
Services Provided: Expert Reports and Depositions; case settled
Date: July 2021 – July 2023

Expert Engagement:
Type of Matter: LED circuits
Client: Carmichael IP on behalf of Lynk Labs (vs. defendant Samsung)
Case Name: IPR Proceedings
Services Provided: Expert Reports and Depositions
Date: Jan 2022 – Jan 2023

Expert Engagement:
Type of Matter: OLED circuits
Client: Baker Botts on behalf of ultrasound mfr (vs. defendant ultrasound mfr)
Case Name: District Court case TBD
Services Provided: Expert Reports and Depositions, testify at trial if not settled (June, 2024)
Date: Jul 2022 - present

Expert Engagement:
Type of Matter: Outdoor signage
Client: Kilpatrick Townsend on behalf of MRI, Inc. (vs. defendants Samsung et al)
Case Name: ITC 337-TA-1331
Services Provided: Expert Reports, Depositions, **Testified at Hearing June 26-30, 2023**
Date: Oct 2022 - present

Expert Engagement:
Type of Matter: Light concentrators, LCD backlights
Client: Katz PLLC on behalf of SVV (vs. defendants Asus et al)
Case Name: WD Tex 6:22-cv-0311, 312, 313, 511, 512, 513, 639, 640, 641-ADA
Services Provided: Expert Reports, Depositions, testify at trial if scheduled
Date: Jan 2023- present

Expert Engagement:

Type of Matter:	LCD AMOLED circuits,
Client:	Kramer Alberti on behalf of Polaris PowerLED Technologies, LLC (vs. defendant Samsung et al)
Case Name:	EDTEX 2:22-cv-oo469-JRG
Services Provided:	Expert Reports (IPR and DC), Depositions, testifying expert
Date:	Mar 2023- present

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Consulting Projects

Consulting Engagement:

Client:	Tessera
Services Provided:	Business case analysis for M&A department
Date:	Mar 2008 to 2011

Consulting Engagement:

Client:	Sipix Imaging
Services Provided:	Technical consulting on display algorithms
Date:	Mar 2008 to 2009

Consulting Engagement:

Client:	Holox Technologies, Inc. (self-funded start up in holographic optics)
Services Provided:	CEO; business leadership, fund raising, market analysis, optical design of advanced diffusers for LCD backlights, solar collectors, window films.
Date:	Sept 2008 to June 2012

Consulting Engagement:

Client:	Innova Dynamics, Inc.
Services Provided:	Technical and business development consulting in touch screen technology
Date:	October 2011 to November 2012

Technical and Patent Consulting:

Client:	LG Display
Services Provided:	Technical consulting on pixel processing algorithms, OLED displays; patent generation for advanced pixel concepts for OLED.
Date:	Aug 2009 to Dec 2011

Consulting Engagement:

Client:	Scivax
Services Provided:	Technical and business development consulting in nanoimprinting technology
Date:	Feb 2018 to Jul 2018

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Professional Affiliations, Achievements & Awards

- Fellow of the Society for Information Display (SID)
- Past Director, SID Symposium Committee (10 years)
- Conference and Program Chair, SID Symposium and IDRC
- Past Member, SID Program Committee (15 years)

US Patents & Publications

Patent	Date	Description
10,163,985	12/25/2018	Subpixel arrangement structure for a display device
9,583,034	02/28/2017	Subpixel arrangement structure for a display device
9,041,625	05/26/2015	Subpixel arrangement structure for a display device and display device
9,001,167	04/07/2015	Display panel having crossover connections effecting dot inversion
8,933,959	01/13/2015	Subpixel layouts and subpixel rendering methods for directional displays and systems
8,876,937	11/04/2014	Production of nanostructures
8,797,344	08/05/2015	Memory structures for image processing
8,754,913	06/17/2014	Subpixel arrangement structure of display device
8,704,744	04/22/2014	Systems and methods for temporal subpixel rendering of image data
8,633,886	01/21/2014	Display panel having crossover connections effecting dot inversion
8,519,910	08/27/2013	Image processing method and display device using the same
8,516,683	08/27/2013	Methods of making a radio frequency identification (RFID) tags
8,456,496	06/04/2013	Color flat panel display sub-pixel arrangements and layouts for sub-pixel rendering with split blue sub-pixels
8,456,414	06/04/2013	Gamma adjustment with error diffusion for electrophoretic displays
8,436,799	05/07/2013	Image degradation correction in novel liquid crystal displays with split blue subpixels
8,421,820	04/16/2013	Methods and systems for sub-pixel rendering with adaptive filtering
8,411,022	04/02/2013	Multiprimary color display with dynamic gamut mapping
8,405,692	03/26/2013	Color flat panel display arrangements and layouts with reduced blue luminance well visibility
8,378,947	02/19/2013	Systems and methods for temporal subpixel rendering of image data
8,294,741	10/23/2012	Four color arrangements of emitters for subpixel rendering
8,259,127	09/04/2012	Systems and methods for reducing desaturation of images rendered on high brightness displays
8,144,094	03/27/2012	Liquid crystal display backplane layouts and addressing for non-standard subpixel arrangements

8,134,583	03/13/2012	Two color flat panel display sub-pixel arrangements and layouts for sub-pixel rendering with split blue sub-pixels
8,035,599	10/11/2011	Display panel having crossover connections effecting dot inversion
8,018,476	09/13/2011	Subpixel layouts for high brightness displays and systems
8,013,867	09/06/2011	Systems and methods for implementing improved gamut mapping algorithms
7,969,456	06/28/2011	Methods and systems for sub-pixel rendering with adaptive filtering
7,876,341	06/25/2011	Subpixel layouts for high brightness displays and systems
7,864,194	01/04/2011	Systems and methods for motion adaptive filtering
7,791,679	09/07/2010	Alternative thin film transistors for liquid crystal displays
7,755,652	07/13/2010	Color flat panel display sub-pixel rendering and driver configuration for sub-pixel arrangements with split sub-pixels
7,701,476	04/20/2010	Four color arrangements of emitters for subpixel rendering
7,646,430	01/12/2010	Display system having improved multiple modes for displaying image data from multiple input source formats
7,592,996	09/22/2009	Multiprimary color display with dynamic gamut mapping
7,583,279	09/01/2009	Subpixel layouts and arrangements for high brightness displays
7,573,493	08/11/2009	Four color arrangements of emitters for subpixel rendering
7,573,448	08/11/2009	Dot inversion on novel display panel layouts with extra drivers
7,559,131	07/14/2009	Method of making a radio frequency identification (RFID) tag
7,505,053	03/17/2009	Subpixel layouts and arrangements for high brightness displays
7,492,379	02/17/2009	Color flat panel display sub-pixel arrangements and layouts for sub-pixel rendering with increased modulation transfer function response
7,417,648	08/26/2008	Color flat panel display sub-pixel arrangements and layouts for sub-pixel rendering with split blue sub-pixels
7,397,455	07/08/2008	Liquid crystal display backplane layouts and addressing for non-standard subpixel arrangements
7,283,142	10/16/2007	Color display having horizontal sub-pixel arrangements and layouts
7,260,882	08/28/2007	Methods for making electronic devices with small functional elements supported on a carriers
7,248,271	07/24/2007	Sub-pixel rendering system and method for improved display viewing angles
7,218,301	05/15/2007	System and method of performing dot inversion with standard drivers and backplane on novel display panel layouts
7,187,353	03/06/2007	Dot inversion on novel display panel layouts with extra drivers
7,184,066	02/27/2007	Methods and systems for sub-pixel rendering with adaptive filtering
7,167,186	01/23/2007	Systems and methods for motion adaptive filtering
7,084,923	08/01/2006	Display system having improved multiple modes for displaying image data from multiple input source formats
7,068,287	06/27/2006	Systems and methods of subpixel rendering implemented on display panels
7,046,256	05/16/2006	System and methods of subpixel rendering implemented on display panels
6,985,361	01/10/2006	Electronic devices with small functional elements supported on a carrier
6,917,368	07/12/2005	Sub-pixel rendering system and method for improved display viewing angles

6,816,380	11/09/2004	Electronic devices with small functional elements supported on a carrier
6,731,353	05/04/2004	Method and apparatus for transferring blocks
6,693,384	02/17/2004	Interconnect structure for electronic devices
6,606,247	08/12/2003	Multi-feature-size electronic structures
5,961,362	10/05/1999	Method for in situ cleaning of electron emitters in a field emission device
5,883,467	03/16/1999	Field emission device having means for in situ feeding of hydrogen
5,477,350	12/19/1995	Interferometric spatial switch for polarized or unpolarized light using liquid crystal
5,373,393	12/13/1994	Optical interferometric device with spatial light modulators for switching substantially coherent light
5,363,228	11/08/1994	Optical device with spatial light modulators for switching arbitrarily polarized light
5,345,321	09/06/1994	Compact polarization dependent optical switching units
5,319,477	06/07/1994	Compact polarization independent optical switching units
5,317,445	05/31/1994	Optical device with spatial light modulators for switching polarized light
4,630,893	12/23/1986	LCD pixel incorporating segmented back-to-back diode
4,598,227	07/01/1986	Electron beam convergence and scanning structures for flat panel display device
4,517,489	05/14/1985	Modulator structure and method for flat panel display devices
4,484,103	11/20/1984	Color selection electron beam guide assembly for flat panel display devices
4,362,966	12/07/1982	Electron leakage reduction in flat panel display devices
4,335,332	06/15/1982	Focus mesh structure and biasing technique for flat panel display devices
4,316,118	02/16/1982	Guided beam display device
4,298,819	11/03/1981	Beam Clean up structure for flat panel display devices
4,234,815	11/18/1980	Flat display tube having shielding member between beam guide and screen
4,174,881	11/20/1979	Recording a synthetic focused-image hologram on a thermally deformable plastic
4,153,856	05/08/1979	Proximity focused element scale image display device
4,148,636	04/10/1979	Broadening the spatial frequency pass band of a thermoplastic layer
4,137,478	01/30/1979	Color flat panel television
4,137,077	01/30/1979	Broadening the spatial frequency pass band of a thermoplastic layer
4,131,823	12/26/1978	Modular flat display device with beam convergence
4,121,137	10/17/1978	System for achieving image uniformity in display devices
4,103,205	07/25/1978	Flat display device with beam guide
4,103,204	07/25/1978	Flat display device with beam guide
4,088,920	05/09/1978	Flat display device with beam guide

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Publications

1. "Thermoplastic Media for Holographic Recording," RCA Review: A Technical Journal (1972)
2. "Guided Beam Displays for Large Screen Flat-Panel Color TV," Information Display (1983)
3. "Recent trends in color avionic LCDs," Information Display (1987)
4. "Thin-film transistors for video applications," Inter. Display Research Conference Record (1988)
5. "TFT-LCD for video applications," Information Display (1989)
6. "LCDs," JTEC Panel Report on Display Technologies in Japan (1992)
7. "Viewing-Angle-Enhancement System for LCDs" SID Digest of Technical Papers (1995)
8. "SpectraVue™: A new system to enhance the viewing angle of LCDs," SID Journal (1997)
9. "The Business Case for Motorola's Flat-Panel-Display Division," Information Display (1997)
10. "MTF of high-resolution PenTile Matrix™ displays," Proc Eurodisplay (2002)
11. "Adding a White Subpixel," Information Display (2005)
12. "Low Power, High-Pixel-Density Mobile Displays Using PenTile RGBW™ Architectures," SID Mobile Displays Digest of Technical Papers (2006)
13. *"Invited Paper:* High-Pixel-Density Mobile Displays: Challenges and Solutions," SID Digest of Technical Papers (2006)