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(Rev. 10/02)

OMB No. 0651-0027 (exp. 5/31/20)

To the Honorable Commission

08-11-2004



102811435

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

attached original documents or copy thereof.

1. Name of conveying party(ies):

Inviso, Inc.

1330 Bordeaux Dr. Sunnyvale, CA 94089

Additional name(s) of conveying party(ies) attached?

θ Yes 🗵 No

2. Name and address of receiving party(ies)

Name:

Brillian Corporation

Street Address:

1600 North Desert Drive

City: TEMPE

State: AZ

Additional name(s) & address(es) attached? θ Yes 🖾 No

Zip: 85281-1230

3. Nature of conveyance:

⊠ Assignment

Merger

Security Agreement

θ Change of Name

Other

Execution Date(s):

February 23, 2004

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution dates of the application is:

A. Patent Application No.(s)

Filed:

B. Patent No.(s)

5,973,845

Additional numbers attached? θ Yes 🗵 No

5. Name and address of party to whom correspondence

concerning document should be mailed:

RONALD L. CHICHESTER

Reg. No. 36,765

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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)......\$40.00

02-0383

8. Deposit account number: 02-0383 of BAKER BOTTS L.L.P.

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Name of Person Signing

2004

Total number of pages including attachments and documents: Two (2) Sheets

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PATENT ASSIGNMENT

WHEREAS, Three-Five Systems, Inc. (hereafter "Assignor"), a New Jersey corporation, having an address at 1600 North Desert Drive, Tempe, Arizona is the owner of the U.S. Patents and Patent Applications listed in Appendix A (hereinafter the "Patent Properties"), attached hereto; and

WHEREAS, Brillian Corporation (hereafter "Assignee") a Delaware corporation, having an address at 1600 North Desert Drive, Tempe, Arizona, desires to acquire all right, title and interest in and to the Patent Properties;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over to Assignee, all its right, title and interest in and to the Patent Properties, as well as all provisionals, continuations, divisions, and continuations-in-part of said Patent Properties, and all reissues and extensions thereof, the same to be held and enjoyed by Assignee for its own use and benefit, and for the use and benefit of its successors, assigns, or legal representatives, to the end of the term or terms for which any individual patent of the Patent Properties may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made.

Assignor also assigns to Assignee, all right, title and interest in and to the inventions disclosed in said Patent Properties throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said Patent Properties in its own name throughout the world, including all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said Patent Properties in appropriate registries; and Assignor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

Assignor also assigns unto Assignee all claims for damages by reason of infringement prior to the assignment date of the Patent Properties throughout the world, with the HOU02:972608

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right to sue for and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns and other legal representatives.

Assignor also will communicate to Assignee any facts known to it respecting any improvements; and, at the expense of Assignee, will testify in any legal proceedings, sign all lawful papers, execute all provisional, divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said Patent Properties in all countries.

IN WITNESS WHEREOF, the parties have caused this Patent Assignment to be executed on the dates and in the capacities shown below.

Three-Five Systems, Inc.

By:

Name:

George A. Pisaruk

Title:

General Counsel

Date:

Brillian Corporation

By:

Name:

Wayne Pratt

Title:

Chief Financial Officer

Date:

vary 23, 2004

HOU02:972608

Case Matter	Client Ref.	Country Title	, Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0103	AU	SN	Multitransmitted Frames in a Liquid Crystal Display			weener nen werend	
075115.0104		SN	System and Method for Actuating a Liquid Crystal Display	09/685834	October 9, 2000		
075115.0105		sn	System and Method for Handling the Input Video Stream for a Display	09/912783	July 25, 2001		
075115.0106		SN	Minimizing Frame Writing Time of a Liquid Crystal Display	09/827559	April 6, 2001		
075115.0107	2000-02 AU	SN	Aperture Frames for Liquid Crystal-Display Devices	09/709903	November 10, 2000	6414337B1	July 2, 2002
075115.0108		NS	Frame Pre-Writing in a Liquid Crystal Display	09/740287	December 18, 2000		
075115.0109		sn	Liquid Crystal Display Column Capacitance Charging with a Current Source	09/827558	April 6, 2001		·
075115.0110		SN	System and Method for Providing Voltages for a Liquid Crystal Display	09/915172	July 25, 2001		
075115.0111	AU	ns	Improved Brightness of a Liquid Crystal Display by Changing Write Direction				
075115.0112		Sn	Apparatus for Reducing Degradation of the Voltage Holding Ratio of a Cell of a Liquid Crystal Display Device				

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0113		S n	Apparatus for Maintaining a Uniform Cell Gap in a Liquid Crystal Display Device and Method of Making a Microdisplay Device Employing Same				
075115.0114		sn	Asymmetric Liquid Crystal Actuation System and Method	09/862075	May 21, 2001		
075115.0115	AU	S	Nonphotolithography Based Simple, Cost Effective, High Volume Manufacturing Methods				
075115.0116	AU	Sn	High-Density Wire Bond Microdisplay	09/678489	October 3, 2000		
075115.0117		SN	LCD Having Internally Formed Spaces	60/069463	December 15, 1997		
075115.0118		sn	Method and Apparatus for Fabricating Micro-Display Devices	09/146136	September 3, 1998		
075115.0118 1		SN	Method and Apparatus for Fabricating Micro-Display Devices	09/146136	September 3, 1998		
075115.0119	AU	S N	Display Compatible with Wide Range of LCD Material	09/607681	June 30, 2000		
075115.0120	AU	Sn	Micro-Display System Having Flex Circuit				***************************************
075115.0121		SN	Method and Apparatus for Driving a Display	09/774984	January 31, 2001		
075115.0122		SN	Asymmetric Scribe and Break Silicon Wafer	08/957984	October 27, 1997	5963289	October 5, 1999

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0126		SN	Micro Display Optical Systems	60/267443	February 8, 2001		
075115.0126 1 AU	1 AU	Sn	System and Method for Testing a Display Device	10/072456	February 7, 2002		
075115.0128		SN	Liquid Crystal on Silicon Device	09/912754	July 24, 2001	6686977	February 3, 2004
075115.0129	AU	SN	System and Method for Providing Voltages for a Liquid Crystal Display	10/123512	April 16, 2002		
075115.0130	AU	ns	Image Quality Improvement for Liquid Crystal Displays	09/972746	October 8, 2001		
075115.0131	A	<u>s</u>	Image Sticking Suppression Using Conductive Openings in the Reflectivity Enhancement Coating Passiv				
075115.0150	A	sn	Method and Algorithm for Fast Measurement of the Electro-Optical Response for Liquid Crystal on Silicon Microdisplays	60/380662	May 15, 2002		
075115.0150 1	1 AU	Sn	Testing Liquid Crystal Microdisplays	10/313178	December 6, 2002		***************************************
075115.0151		SN	Twice Folded Compound Magnified Virtual Image Electronic Display	09/182951	October 29, 1998	6603443B1	August 5, 2003
075115.0152	AU	SN	Display Illumination System	09/394014	September 10, 1999	6433935B2	August 13, 2002
075115.0153		SN	Portable Transcription Device with Virtual Image Display	09/226845	January 7, 1999		

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Case Matter	Client Ref.	Country Title	, Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0154		SN	Optical Method Employing Total Internal Reflection	09/237996	January 26, 1999	5959781	September 28, 1999
075115.0155		Sn	Display System Having Multiple Memory Elements per Pixel with Improved Layout Design	09/311805	May 13, 1999	6140983	October 31, 2000
075115.0156		sn	Display System with Local Decoding	09/311804	May 13, 1999		
075115.0157		sn	Compact Display System with Two Stage Magnification and Immersed Beam Splitter	08/673894	July 2, 1996	5771124	June 23, 1998
075115.0158		SN	Display System Having Multiple Elements per Pixel	09/079684	May 15, 1998	6339417	January 15, 2002
075115.0159		SN	Miniature Synthesized Virtual Image Electronic Display	08/775840	December 31, 1996	5838498	November 17, 1998
075115.0160	AU	SN	Virtual Image Display with Virtual Keyboard	09/785024	February 15, 2001		
075115.0161	AU	NS	Compact Display System Controlled by Eye Position Sensor System	09/372651	August 11, 1999	6055110	April 25, 2000
075115.0162		SN	Transcription Method Using Virtual Image Display	09/226738	January 7, 1999		
075115.0163		SN	Display System with Multiplexed Pixels	09/369685	August 5, 1999		
075115.0164		Sn	Compact Compound Magnified Virtual Display with Reflective/Transmissive Optic	09/018259	February 4, 1998	5991084	November 23, 1999

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date	
075115.0165		ns n	Twice Folded Compound Magnified Virtual Image Electronic Display	08/831106	April 1, 1997	5870068	February 9, 1999	6
075115.0166		ns	Twice Folded Compound Magnified Virtual Image Electronic Display	08/441529	May 15, 1995	5684497	November 4, 1997	76
075115.0167		Sn	Compact Display System with Two Stage Magnification and Immersed Beam Splitter	09/033208	March 2, 1998	5892624	April 6, 1999	o 0
075115.0168		SN	Twice Folded Compound Magnified Virtual Image Electronic Display	08/831371	April 1, 1997	5905478	May 18, 1999	<u>0</u>
075115.0169		Sn	Head-Mounted Display with Miniature Synthesized Virtual Image Electronic Display	09/018027	February 2, 1998			
075115.0170		SN	Miniature Synthesized Virtual Image Electronic Display	09/017048	February 2, 1998	6094181	July 25, 2000	8
075115.0171	100.000.000.000.000.000.000.000.000.000	NS N	Display Illumination System	09/733774	December 8, 2000	6404557B2	June 11, 2002	8
075115.0172		SN	Phone with Ergonomic Virtual Image Display	09/031263	February 26, 1998	6275714B1	August 14, 2001	2
075115.0174		ရ	Balanced Binary Color Drive Method for Graphical Displays and System Implementing Same	09/727095	November 29, 2000			
075115.0175		S	System and Method for Digitally Controlled Waveform Drive Methods for Graphical Displays	09/727132	November 29, 2000			
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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0176		S	System and Method for Color and Grayscale Drive Methods for Graphical Displays Utilizing Analog Controlled	09/737418	December 14, 2000		
075115.0177		SN	System and Method for Superframe Dithering in a Liquid Crystal Display	09/792041	February 21, 2001		
075115.0178		Sn	System and Method for a Liquid Crystal Display Utilizing a High Voltage Bias Mode	09/791888	February 21, 2001		
075115.0179		SN	System and Method for a Head-Mounted Computer Display	09/792408	February 21, 2001		
075115.0180	P	Sn	Optically Corrective Lenses for a Head- Mounted Computer Display	09/792382	February 21, 2001		
075115.0181	AU	Sn	S, M for Local Decoding of Digital Bit Seq. For Switching States of Pixel on Time Basis for Controlling Grayscale, Gamma Corr.	09/792133	February 21, 2001		
075115.0182		sn	System and Method for a Programmable Color Rich Display Controller	09/792291	February 21, 2001		
075115.0183		SN .	Miniature Synthesized Virtual Image Electronic Display	08/361035	December 21, 1994	5644323	July 1, 1997
075115.0184		Sn	Display Illumination System	10/160901	June 3, 2002		

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0185		SN	Compact Compound Magnified Virtual Image Electronic Display	08/407102	March 17, 1995	5625372	April 29, 1997
075115.0186		Sn	Display System Having Multiple Memory Elements Per Pixel with Improved Layout Design	09/898083	November 15, 2001		
075115.0187		SN	Miniature Synthesized Virtual Image Electronic Display	09/182952	October 29, 1998	5973845	October 26, 1999
075115.0188	AU	SN	Liquid Crystal Display System with Improved Color Depth and Grayscale				
075115.0189	AU	ട്വ	Digital Microdisplay System Architecture with Integrated Dither Processing				
075115.0210		SN	Display Illumination System	10/217152	August 12, 2002		
075115.0235		Sn	Method to Eliminate the Disclination Defects Due to Fringe Fields in Vertically Aligned Nematic Reflective LC Displays Without Hurting the Display Contrast	60/450370	February 26, 2003		
075115.0252	2000-04	ns	Image Quality Improvement for Liquid Crystal Displays	60/263355	January 22, 2001		
075115.0253	2000-05	Sn	System and Method for Minimizing Image Degradation in LCD Microdisplays	10/004518	November 2, 2001		

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0262		SN	Electrode Border for Spatial Light Modulating Displays	09/520682	March 7, 2000		
075115.0263		ട്ട	Method and Apparatus for Independent Control of Brightness and Color Balance in Display and Illumination Systems	09/258512	February 26, 1999	6618031B1	September 9, 2003
075115.0264		Sn	Micro Liquid Crystal Displays Having a Circular Cover Glass and a Viewing Area Free of Spacers	09/312946	May 17, 1999	6275277B1	August 14, 2001
075115.0265		SN	Micro Liquid Crystal Displays	09/872933	May 31, 2001		
075115.0274		S	Display System Having Electrode Modulation to Alter a State of an Electro-Optic Layer	08/920602	August 27, 1997	6104367	August 15, 2000
075115.0275		Sn	Method and Apparatus for Testing Color Sequential, Near-to-the-Eye, and Similar Display Devices	60/244125	October 27, 2000		
075115.0276		Sn	Display System Having Electrode Modulation to Alter a State of an Electro-Optic Layer	08/920603	August 27, 1997	6144353	November 7, 2000
075115.0281		Sn	Low Voltage Frame Buffer for High Contrast LCD Microdisplay and Method Therefor	10/431229	May 6, 2003		
075115.0282		sn	Method and Apparatus to Package and Electrically Connect to a Microdisplay	10/043894	November 16, 2001		

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10/644476	Application No.	Filing Date	Patent No.	Issue Date
US Liquid Crystal Display 10/644151		August 19, 2003		
US Display System Having Electrode Modulation to Alter a State of an Electro-Optic Layer US Display System Having Electro-Optic Layer Electrode Modulation to Alter a State of an Electro-Optic Layer US Head-Set for Head Mounted Display US Controlled Angle Retarder 09/564473 With Liquid Crystal Cell Bias Tuned for a Sequence of Sequence o	play	August 19, 2003		
US Display System Having Electrode Modulation to Alter a State of an Electro-Optic Layer US Head-Set for Head Mounted Display US Controlled Angle Retarder 09/564473 With Liquid Crystal Cell Bias Tuned for a Sequence of With Liquid Crystal Cell Bias Tuned for a Sequence of Sequen	08/994033	December 18, 1997	6046716	April 4, 2000
US Head-Set for Head 29/102147 Mounted Display US Controlled Angle Retarder 09/564473 With Liquid Crystal Cell Bias Tuned for a Sequence of With Liquid Crystal Cell Bias Tuned for a Sequence of S		April 4, 2000	6329971B2	December 11, 2001
US Controlled Angle Retarder 09/564473 With Liquid Crystal Cell Bias Tuned for a Sequence of With Liquid Crystal Cell Bias Tuned for a Sequence of Sequence of US Safety Timer to Protect a Display From Fault Conditions US Wafer Scale Processing 09/619969	Ð	March 17, 1999	Des429253	August 8, 2000
US Controlled Angle Retarder 10/452414 With Liquid Crystal Cell Bias Tuned for a Sequence of Sequence of US Safety Timer to Protect a Display From Fault Conditions US Wafer Scale Processing 10/131452		May 3, 2000	6587172B1	July 1, 2003
US Wayelleffelf to Protect a 09/311893 Display From Fault Conditions US Wafer Scale Processing 10/131452	gle Retarder rystal Cell rr a	May 30, 2003		
US Wafer Scale Processing 09/619969	to Protect a Fault	May 14, 1999	6448962B1	September 10, 2002
US Wafer Scale Processing 10/131452		July 20, 2000	6476415B1	November 5, 2002
	Wafer Scale Processing 10/131452	April 22, 2002		
075115.0300 US Wide Field of View 09/872073 June Eyepiece	View	June 1, 2001	6542307B2	April 1, 2003

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075115.0301	Client Ket.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
		ട്ട	Method and Apparatus for Adjusted DC Offset Potential in a Liquid Crystal Display (LCD) Device	09/883211	May 21, 2001		
075115.0302	ALLE STATEMENT TO STATE STATEMENT ST	SN	Display Head-Set Device	08/904515	August 1, 1997	6034653	March 7, 2000
075115.0303		ns	Display Head-Set	29/075082	August 1, 1997	D402651	December 15, 1998
075115.0306		SN	Image Generator Having a Miniature Display	09/222230	December 29, 1998		
075115.0307		Sn	RPVRer Partitioned Miniature Display System	09/311891	May 14, 1999	6326958B1	December 4, 2001
075115.0308		SN	Time Sequential Lookup Table Arrangement for a Display	09/989764	November 19, 2001		
075115.0310		sn	Image Generator Having an Improved Illumination System	09/912156	July 23, 2001	6488389B2	December 3, 2002
075115.0311		Sn	Image Generator Having an Improved Illumination System	09/347440	July 2, 1999	6280054B1	August 28, 2001
075115.0313		Sn	Illunination System for a Micro Display	09/952980	September 14, 2001	6490104B1	December 3, 2002
075115.0314		sn	Display System Having Common Electrode Modulation	09/576759	May 23, 2000	6304239B1	October 16, 2001
075115.0315		ns	Display System Having Common Electrode Modulation	08/801994	February 18, 1997	6078303	June 20, 2000
075115.0316		SN	Display System Having Common Electrode Modulation	08/770233	December 19, 1996	5920298	July 6, 1999
075115.0318		ns	Pixel Circuit with Shared Active Regions	09/966310	September 28, 2001		

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0320		ns	High Contrast LCD Microdisplay	09/96063	September 28, 2001		
075115.0324		sn	Controlling Data Dependance and Cross- Talk Between Display Elements	10/016295	October 30, 2001		·
075115.0326		sn	Compact Wide Field of View Imaging System	09/872111	June 1, 2001	6563648B2	May 13, 2003
075115.0327		Sn	Wide Field of View Eyepiece	60/242189	October 20, 2000		
075115.0328		Sn	Display Systems with Pixel Electrodes at Different Distances from a Control Electrode	09/797540	February 28, 2001	6636287B1	October 21, 2003
075115.0329		sn	Display Systems with Pixel Electrodes at Different Distances from a Control Electrode	10/658167	September 8, 2003		
075115.0330		sn	Display Systems with Pixel Electrodes at Different Distances from a Control Electrode	10/435179	May 9, 2003		
075115.0331		SN	Channel to Control Seal Width in Optical Devices	09/872145	June 1, 2001		
075115.0332		SN	Liquid Crystal Display Device	09/866038	May 24, 2001		
075115.0335		sn	Time Sequential Lookup Table Arrangement for a Display	09/312196	May 14, 1999	6373497B1	April 16, 2002
075115.0123		OM O	Methods and Apparatus for a Display Compatible with a Wide Range of Liquid Crystal Materials	US00/18075	June 30, 2000		

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date	_
24		0 M	Asymmetric Scribe and Break of Silicon Wafers	US98/22691	October 26, 1998			
075115.0125		OM	LCD Having Internally Formed Spacers					
075115.0127		WO MO	Methods and Apparatus for a Display Compatible with a Wide Range of Liquid Crystal Materials	US01/41236	June 29, 2001			
075115.0132		MO	High-Density Wire Bond Microdisplay	US01/30579	October 1, 2001			
075115.0133		OM	System and Method for Actuating a Liquid Crystal Display	US01/31436	October 9, 2001			
075115.0135	2000-02	OM	Aperture Frames for Liquid Crystal-Display Devices	US01/50906	November 9, 2001			
075115.0136		OM	Asymmetric Liquid Crystal Actuation System and Method	US01/49425	December 19, 2001			
075115.0137		MO	Frame Pre-Writing in a Liquid Crystal Display	US01/48959	December 18, 2001		TOTAL CONTRACTOR OF THE PARTY O	
075115.0147		OM	Minimizing Frame Writing Time of a Liquid Crystal Display	US02/10194	March 29, 2002			
075115.0148		WO	Liquid Crystal Display Column Capacitance Charging with a Current Source	US02/10126	March 29, 2002			
075115.0173		OM O	Compact Display System with Two Stage Magnification and Immersed Beam Splitter	US97/11498	June 30, 1997	-		

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0190		O M	Compact Compound Magnified Virtual Image Electronic Display	US95/16598	December 20, 1995	,	
075115.0191	AU	OM	Transcription Method Using Virtual Image Display	US00/00226			
075115.0196		OM	Balanced Binary Color Drive Method and Digitally Controlled Waveform Drive Methods for Graphical Displays and System Implementing	US01/44919	November 29, 2001		
075115.0197		OM	System and Method for Superframe Dithering in a Liquid Crystal Display	US02/05855	February 20, 2002		
075115.0198		O _M	System and Method for a Liquid Crystal Display Utilizing a High Voltage Bias Mode	US02/05358	February 20, 2002		
075115.0199		OM O	Optically Corrective Lenses for a Head- Mounted Computer Display	US02/05168	February 20, 2002		
075115.0200		O	S, M for Local Decoding of Digital Bit Seq. For Switching States of Pixel on Time Basis for Controlling Grayscale, Gamma Corr.	US02/05169	February 20, 2002		
075115.0201		OM	System and Method for Programmable Color Rich Display Controller	US02/05359	February 20, 2002		
075115.0203		OM	Display System Having Multiple Elements per Pixel	US99/10719	May 13, 1999		

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Case Matter	Client Ref.	Country Title	Title	Application No.	Filing Date	Patent No.	Issue Date
075115.0206		WO	Transcription Device with Virtual Image Display	US99/30910	December 23, 1999		
075115.0209		MO	Display Illumination System	US00/23014	August 22, 2000		. •
075115.0212	2000-02	WO	Aperture Frames for Liquid Crystal-Display Devices	US02/22297	July 11, 2002		
075115.0214		OM	System and Method for Handling the Input Video Stream for a Display	US02/23258	July 23, 2002		
075115.0216		WO	System and Method for Providing Voltages for a Liquid Crystal Display	US02/23260	July 25, 2002		
075115.0236		o M	System and Method for Providing Voltages for a Liquid Crystal Display	US03/11646	April 16, 2003		
075115.0250		MO	Testing Liquid Crystal Microdisplays	US03/15585	May 15, 2003		
075115.0254	2000-05	O _M	System and Method for Minimizing Image Degradation in LCD Microdisplays	US02/35108	November 1, 2002		
075115.0267		OM	Micro Liquid Crystal Displays	US00/13470	May 16, 2000		
075115.0272		MO MO	Display System Having Common Electrode Modulation	US97/21991	December 2, 1997		
075115.0285		O _M	Method and Apparatus for Testing Color Sequential, Near-to-the-Eye, and Similar Disptay Devices	US01/51297	October 26, 2001		
075115.0299	***************************************	MO	Compact Near-Eye Illumination System	US02/17277	May 29, 2002		

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Patent No. Issue Date								
Filing Date Pa	December 30, 1998	May 12, 2000	August 27, 2002	August 22, 2002	September 27, 2002	December 19, 1997	May 23, 2002	October 15, 2002
Application No.	US98/27833	US00/12983	US02/27416	US02/28218	US02/30339	US97/23963	US02/21009	US02/32986
y Title	An Image Generator Having a Miniature Display Device	Time Sequential Lookup Table Arrangement for a Display	Pixel Circuit with Shared Active Regions	High Contrast LCD Microdisplay	Reflective Displays Having Optical Tuning	Display System Having Electrode Modulation to Alter a State of an Electro-Optic Layer	Liquid Crystal Display Device	Controlling Data Dependance and Cross-Talk Between Display
Country Title	Mo	MO	WO	MO	WO	O _M	WO	MO
Client Ref.				THE THE PROPERTY OF THE PROPER				
Case Matter	075115.0305	075115.0312	075115.0317	075115.0319	075115.0321	075115.0322	075115.0323	075115.0325

INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

THIS INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT (the "Agreement"), is effective as of April 25, 2002 by and between THREE FIVE SYSTEMS, INC., a Delaware corporation with its principal place of business at 1600 N. Desert Drive, Tempe, AZ 85281-1230 (hereinafter "TFS"), and INVISO CORPORATION, having a principal place of business at c/o Alfred P. Hildebrand, P.O. Box 51175, Palo Alto, CA 94303 (hereinafter "INVISO").

WITNESSETH:

WHEREAS, INVISO has developed certain INVISO Technology, hereinafter defined, and owns certain Rights to Technology as hereinafter defined in and to such INVISO Technology;

WHEREAS, INVISO and TFS have entered into an Private Sale Agreement (the "PSA"), effective as of April 25, 2002, pursuant to which INVISO has agreed to assign all the Rights to Technology in and to such INVISO Technology to TFS;

WHEREAS, TFS is interested in acquiring INVISO's entire right, title and interest in and to the Rights to Technology; and

WHEREAS, after extensive negotiations, TFS and INVISO have determined in good faith a price considered by TFS and INVISO equivalent to the fair value of Rights to Technology;

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants set for the below, TFS and INVISO agree as follows:

ARTICLE 1 - Definitions

For the purpose of this Agreement, the following terms shall have the following meanings:

1.1 "Rights to Technology" shall mean all rights in copyrights, trademarks (including all trademarks which are still authorized by the United States Patent Office to include, if they exist, Siliscape, InViso, Optiscape, Optiscape II, Optiscape III, eShades, eCase and ePack), design and collateral files (including but not limited to, those items described on Exhibit A attached hereto) on a worldwide basis now owned or hereafter acquired by INVISO. TFS and INVISO acknowledge and agree the Rights to Technology shall not include any "Assets" described in the PSA.

1.2 "INVISO Technology" shall mean the INVISO trademarks, copyrights, and other intellectual property rights, including the Rights to Technology.

ARTICLE 2 - Assignment

- 2.1 In exchange for the consideration given to INVISO by TFS, INVISO hereby irrevocably assigns, transfers and conveys to TFS, and TFS hereby accepts from INVISO, INVISO's entire right, title and interest in the Rights to Technology. INVISO does not reserve or retain any interest whatsoever in such Rights to Technology.
- 2.2 INVISO agrees to provide all reasonable assistance and execute any papers reasonably requested by TFS, at TFS' expense, to preserve and acquire TFS' title in and to the Rights to Technology and for the filing and granting of formal applications for attaining available legal protection based on the Rights to Technology.

ARTICLE 3 – INVISO's Representations

INVISO hereby represents to TFS that the following statements are true and correct:

- 3.1 Corporate Status, Power an Authority
 - a) INVISO has all requisite legal and corporate power to execute and deliver this Agreement and to sell and transfer the Rights to Technology and to carry out and perform its obligations hereunder.
 - All corporate action on behalf of INVISO, its directors and shareholders necessary to authorize INVISO to enter into and perform this Agreement and perform its obligations hereunder has been taken. The execution and delivery of this Agreement by INVISO has been duly authorized. This Agreement has been duly executed and delivered by INVISO and constitutes a valid and legally binding agreement of INVISO subject to laws of general application relating to bankruptcy, insolvency and relief of debtors.
 - c) Neither the execution, delivery, and performance of this Agreement, nor the transfer of Rights to Technology hereunder, will result in or constitute any of the following" (1) a breach of any term or provision of this Agreement; or (2) the violation of any law, judgment, order or decree affecting the business of INVISO.
 - d) To the knowledge of the management of INVISO, no authorization, consents, or approvals of any federal, state, county, or local regulatory

body or agency are required to be obtained or given (other than United States export control license or those which are ministerial in nature and which will not delay or invalidate the transactions contemplated herein), and no waiting period is required to expire in order that the transfer of rights contemplated hereunder may be consummated by INVISO.

3.2 Existence of Rights to Technology

- a) INVISO has all the rights, title and interest in the Rights to Technology free and clear of any claim, lien encumbrance; and INVISO has not assigned any such rights to any other party. Except as otherwise stated in this Section 3.2, the Rights to Technology are transferred "as is, where is, and with all faults."
 - b) To the knowledge of INVISO's management, there are no pending or threatened lawsuits concerning any aspect of the Rights to Technology transferred hereunder.

ARTICLE 4 - TFS Representations

TFS represents that TFS is a legal entity duly organized, existing, and in good standing under the laws of Delaware. The execution and delivery of this Agreement and the consummation of the transfer of the Rights to Technology by TFS has been duly authorized, and no further corporate authorization is necessary on the part of TFS.

ARTICLE 6- [Intentionally omitted]

ARTICLE 7 - Consideration

Except as otherwise agreed in writing by the parties, the consideration given pursuant to the PSA shall by the sole and exclusive consideration to be given by TFS to INVISO for the transfers contemplated by this Agreement. Neither TFS nor INVISO shall have any right whatsoever to any additional consideration, license fee, or royalty of any kind. INVISO acknowledges that certain income from the licensing of portions of the Rights to Technology shall be paid by TFS to the Secured Parties (as defined in the PSA) pursuant to the PSA and INVSIO hereby directs TFS to make such payments for and on their behalf. INVISO acknowledges that it received adequate consideration, including the reduction of indebtedness, for the direction of such income to the Secured Parties and that the direction of such income to the Secured Parties provides a material benefit to INVISO.

ARTICLE 8 – INVISO's Obligations

At the times specified in the PSA, INVISO shall, unless waived by TFS, have delivered or have caused to be delivered to TFS those documents and releases described in the PSA.

ARTICLE 9 - General

- Notices. Any notice, request or demand required or permitted under this Agreement shall be in writing an may be delivered by hand or by depositing the same either a) with the United States Postal Service, first class mail, postage prepaid, registered or certified, return receipt requested; or b) with one of the generally accepted commercial overnight courier services, charges prepaid; in either event addressed to the addressee at its principal office set forth hereinabove. A party may change its address for the purposes of this Agreement by written notice given in accordance herewith. Other business communications between the parties may be made by facsimile transmission or by use of any commonly accepted electronic mail service to such address or addresses as either party may designate.
- 9.2 <u>Parties in Interest</u>. All the terms and provisions of this Agreement shall be binding upon and inure to the benefit of and be enforceable by the parties hereto.
- 9.3 Entire Agreement. This Agreement, all of its Exhibits, and the PSA constitute the entire agreement between INVISO and TFS with respect to the subject matter hereof, supersedes all prior agreements and understandings, whether written or oral, and may be modified only by an agreement in writing executed by the party to be charged. The section headings contained herein are for convenience only and shall not be used to construe this Agreement. This Agreement may be executed in two or more counterparts, each of which shall constitute an original, but such counterparts together shall constitute one and the same instrument.
- 9.4 Severability. In case any one or more of the provisions contained in this Agreement shall, for any reason, be construed as invalid, illegal or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision of this Agreement.
- 9.5 Governing Law. This Agreement shall be governed by the laws of the State of Delaware and of the United States, without giving effect to any of the conflict of laws provisions thereof. In the event of any dispute relating to or concerning this Agreement, the parties will submit exclusively to the jurisdiction of any court of

- competent jurisdiction sitting the State of Delaware, and will comply with all requirements necessary to give such court exclusive
- 9.6 <u>Independence</u>. Each of the parties is an independent contractor. Neither party had the authority to bind the other in any respect. Neither party shall claim any right, power, or authority to obligate the other in any manner.
- 9.7 Force Majeure. The performance of either party, required by this Agreement, shall be extended by a reasonable period of time if such performance of the respective party is impeded by an unforeseeable event beyond such party's control, which shall include but not be limited to acts of God, industrial actions, riots, wars, accidents, embargo or requisition (acts of government), so long as the effected party shall promptly notify and furnish the other party in writing with all relevant information regarding such event. Should any such event continue for more than three (3) months, either party shall have the right to terminate this Agreement upon written notice to that effect to the other party.
- 9.8 <u>Controlling Agreement.</u> In the event of any conflict between the provisions of this Agreement and the provisions of any other agreement supplied by one party to the other for use in connection with the performance for this Agreement, the provisions of this Agreement shall control.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, effective as of the date first set forth above.

THREE FIVE SYSTEMS, INC.

By: Josephanan
Name: Josephanan

Title: Executive V.f., (F())
Address: 1600 N. Desert Drive

Tempe, AZ 85281-1230

INVISO CORPORATION

Address:

By:______Name:_______Title:______

inviso

Tempe, AZ 85281-1230

408-734-5311

p.2

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, effective as of the date first set forth above.

THREE FIVE SYSTEMS, INC.	INVI
Ву:	Ву:_
Name:	Name
Title:	Title:
Address: 1600 N. Descrt Drive	Addre

INVISO CORPORATION

Nume: ALERED P. HILDEBRAND Title: CHAIRMAN/SMCRETARY Address: 1555 EDCEWOOD DR.

PALO ALTO, CA 94303

SECURED PARTY BILL OF SALE

Date: April 25, 2002

In consideration of the sum of S the parties included on the Schedule of Secured Parties attached hereto as Exhibit A (each, a "Secured Party" and collectively, the "Secured Parties") hereby sell, transfer and assign to THREE-FIVE SYSTEMS, INC., a Delaware corporation ("Buyer"), and Buyer hereby accepts delivery of, all the right, title, and interest of INVISO CORPORATION ("Debtor") in and to the property described on Exhibit B (collectively, the "Assets").

A. Representations and Warranties of Secured Party.

- 1. Secured Parties hold valid, perfected and, to the best of Secured Parties knowledge, first priority security interests in the Assets.
- 2. Debtor is in default of its obligations to Secured Parties and Secured Parties are entitled to sell the Assets under the terms of written agreements between Debtor and Secured Parties, the provisions of the California Commercial Code and other applicable laws.
- 3. Pursuant to Section 9617 of the UCC, the disposition of the Assets affected by this Secured Party Bill of Sale transfers to Buyer all of the Debtor's rights therein, discharges Secured Party's security interest under which it was made and discharges any junior interest held by a party who has properly filed a UCC-1 with the California Secretary of State (the "Junior Lienholders"). A copy of the UCC search conducted by the Secured Parties is attached hereto as Exhibit C.
- 4. Upon purchase of the Assets pursuant to this Secured Party Bill of Sale, Buyer will have purchased the Assets free and clear of all state and federal tax liens included on Exhibit C and of all rights and interests of Debtor and Secured Parties and, to the best of Secured Parties knowledge, all claims of other creditors of Debtor with respect to the Assets.

Except for those representations and warranties set forth in paragraphs 1 through 4, Buyer agrees that the Assets are transferred without any warranties or representations of any kind, express or implied, including any warranties as to the merchantability or fitness of the Assets for use or sale. There are no warranties which extend beyond the description of the face hereof and Buyer agrees that the Assets are placed at Buyer's disposal in an "as is" "where is" condition.

The consideration given pursuant to the Private Sale Agreement between the parties shall be the sole and exclusive consideration to be given by Buyer for the transfers contemplated therein. Except as provided in Paragraph 10 of the Private Sale Agreement, in no event shall

FAX NO. : 602 389 8832

FROM:

Secured Parties have any right whatsoever to any additional consideration, license fee, or royalty of any kind.

Buyer acknowledges that it has inspected and evaluated the Assets and is aware of and relies solely on his own knowledge of its value. Buyer agrees that Secured Parties have made no representation, warranty, statement of fact or expression of opinion to Buyer with regard to the Assets, except as stated herein, and are not now and were not heretofore under any duty to do so. Buyer agrees that Secured Parties have made, with respect to the Assets, no warranty by affirmation of fact, promise, description, model or sample of the Assets.

All representations, warranties and agreements of Secured Parties set forth in this Secured Party Bill of Sale shall be deemed continuing representations, warranties and agreements made by Secured Parties and shall survive the date hereof for a period of six (6) months from the date that the Bill of Sale is delivered to the Buyer.

[Remainder of page left intentionally blank]

Exhibit A to Bill of Sale

SCHEDULE OF SECURED PARTIES

ARCH Venture Fund II, L.P. Attention Keith Crandell 8725 W. Higgins Road, Suite 290 Chicago, IL, 60631 (773) 380-6600

AVI Partners Growth Fund, II, L.P. Attention Brian Grossi One First Street, Suite 2 Los Altos, CA 94022 (650) 949-9862

Chevron Technology Ventures LLC Attention: Don Riley 6001 Bollinger Canyon Road, Bldg. F. San Ramon, CA 94583-2324 (925) 842-2794

Ridgewood Capital Corp.
Ridgewood Inviso, LLC
Attention: Elton Sherwin & Randy
Holmes
540 Cowper Street, Suite 200
Palo Alto, CA 94301
(650) 208-4015 or (201) 447-9000

Ivan Sutherland 125 Wadsworth Ave. Santa Monica, CA 94045 Associate Venture Investors III, L.P. Attention Brian Grossi One First Street, Suite 2 Los Altos, CA 94022 (650) 949-9862

AVI Silicon Valley Partners, L.P. Attention Brian Grossi One First Street, Suite 2 Los Altos, CA 94022 (650) 949-9862

Cypress Semiconductor Attention: Norman Taffe 195 Champion Court San Jose, CA 95134 (408) 943-2600

Thomas A. Kelley & Associates Profit-Sharing Plan
Attention Thomas A. Kelley
3000 Sand Hill road
Building 2, Suite 120
Menlo Park, CA 94025
(650) 854-3247 AVI Capital, L.P. Attention Brian Grossi One First Street, Suite 2 Los Altos, CA 94022 (650) 949-9862

<u>Fred Bialek</u> 200 Winding Way Woodside, CA 94062 , (650) 851-7646

MGN Opportunity Group LLC Attention: Greg Stevenson 801 Second Avenue, Suite 1300 Seattle, WA 98104-1581 (206) 652-8737

William Russell-Shapiro and Alice Russell-Shapiro, Trustees of the Russell-Shapiro Trust w/a/d 10/10/96 William Russell-Shapiro Alice Russell-Shapiro R&S Associates 235 Montgomery Street, Suite 824 San Francisco, CA 94104 (415)864-2693

415 983 1200 TO 916023898836#2 P.19/33

SUMMARY OF PATENT PORTFOLIO FOR **INVISO** [As of January 2002]

I. ISSUED PATENTS

Patent Entitled:

MINIATURE SYNTHESIZED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

5,644,323 July 1, 1997

Issued: Serial No.:

08/361,035 ~

Filed:

December 21, 1994

Related Case:

inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-701 (SILS 1001)

Patent Entitled:

COMPACT COMPOUND MAGNIFIED VIRTUAL IMAGE ELECTRONIC

DISPLAY

Patent No.:

5,625,372

Issued:

April 29, 1997 08/407,102

Serial No.: Related Case:

WSGR 17542-701 (SILS 1001)

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-705 (SILS 1007)

Patent Entitled:

TWICE FOLDED COMPOUND MAGNIFIED VIRTUAL IMAGE

ELECTRONIC DISPLAY

Patent No.:

5,684,497

Issued:

November 4, 1997

Serial No.:

08/441,529

Filed:

May 15, 1995

Related Case:

WSGR 17542-701, 17542-705 (SILS 1001, SILS 1007)

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-706 (SILS 1007 CIP1)

Patent Entitled:

COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Patent No.:

5,771,124

issued:

June 23, 1998 08/673,894

Scrial No: Filed:

July 2, 1996

Related Cases:

None

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-712 (SILS 4002)

MAR 27 '02 16:33 FR PW 5F

Patent Entitled:

MINIATURE SYNTHESIZED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

5,838,498

Issued:

November 17, 1998

Serial No.:

08/775,840

Filed:

December 31, 1996

Related Case:

WSGR 17542-701 (SILS 1001)

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-718 (SILS 1001 CON1)

Patent Entitled:

TWICE FOLDED COMPOUND MAGNIFIED VIRTUAL IMAGE

ELECTRONIC DISPLAY

Patent No.:

5,905,478 May 18, 1999

issued: Serial No.:

08/831,371

Filed:

April 1, 1997

Related Case:

WSGR 17542-701, 17542-705, 17542-706 (SILS 1001, SILS 1007, SILS 1007

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-719 (SILS 1007 CIP1 CON2)

Patent Entitled:

TWICE FOLDED COMPOUND MAGNIFIED VIRTUAL IMAGE

ELECTRONIC DISPLAY

Patent No .:

5,870,068

Issued:

February 9, 1999

Serial No: Filed:

08/831,106 April 1, 1997

Related Case:

WSGR 17542-706 (SILS 1007 CIP1)

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-720 (SILS 1007 CIPI CON3)

Patent Entitled:

COMPACT COMPOUND MAGNIFIED VIRTUAL DISPLAY WITH

REFLECTIVE/TRANSMISSIVE OPTIC

Patent No .:

5,991,084

Issued:

November 23, 1999

Serial No.:

09/018,259

Filed:

February 4, 1998

Related Case:

None

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-721

Patent Entitled:

MINIATURE SYNTHESIZED

VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

6,094,181

Issued:

July 25, 2000

Serial No.:

09/017,048 February 2, 1998

Filed: Related Case:

None

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No .:

MAR 27 '02 16:34 FR PW SF

Patent Entitled:

VIRTUAL IMAGE DISPLAY SYSTEM UTILIZING

TOTAL INTERNAL REFLECTION

Patent No.:

5,892,624 April 6, 1999.

Issued: Serial No.:

April 6, 1999. 09/033,208 March 2, 1998

Filed: Related Case:

17542-712

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-732

Patent Entitled:

MINIATURE SYNTHESIZED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

5,973,845

Issued:

October 26, 1999

Serial No.:

09/182,952

Filed: Related Case: October 29, 1998 WSGR 17542-701, 17542-718, (SILS 1001 CON1, SILS 1001))

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-733

Patent Entitled:

DISPLAY SYSTEM HAVING MULTIPLE MEMORY ELEMENTS

PER PIXEL WITH IMPROVED LAYOUT

Patent No.:

6,140,983

Issue Date:

October 31, 2000

Serial No.:

09/311,805

Filed:

May 13, 1999

Related Case:

WSGR 17542-731; 17542-736; 17542-748

Inventors: Docket No.: William Quantud

17542-735

Patent Entitled:

OPTICAL METHOD EMPLOYING

TOTAL INTERNAL REFLECTION

Patent No.:

5,595,781

Issued:

September 28, 1999

Serial No.:

09/237,996 January 26, 1999

Filed:

WSGR 17542-712; 17542-732

Related Case: Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-743

Patent Entitled:

COMPACT DISPLAY SYSTEM CONTROLLED

BY EYE POSITION SENSOR SYSTEM

Patent No.:

6,055,110

Issued:

April 25, 2000

Serial No.:

09/372,651

Filed:

August 11, 1999

Related Case:

WSGR 17542-712; 17542-732; 17542-743

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

P. 22/30

MAR 27 '02 16:34 FR PW SF

Patent Entitled:

PHONE WITH ERGONOMIC VIRTUAL IMAGE DISPLAY

Patent No.:

6,275,714

Issued:

August 14, 2001

Serial No.:

09/031,263

Filed:

February 26, 1998

Related Case:

None

Inventors:

Gregory Kintz and David Phillips

Docket No.:

17542-725

Application Entitled:

DISPLAY SYSTEM HAVING MULTIPLE ELEMENTS

PER PIXEL

Patent No.:

6,339,417

Issue Date: Serial No: January 15, 2002 09/079,684

Filed:

May 15, 1998

Related Case:

WSGR 17542-735, 17542-736

Inventors:

William Quanrud

Docket No.

17542-731

II. ISSUED INTERNATIONAL PATENT APPLICATIONS

EP Patent Entitled:

COMPOUND MAGNIFIED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

0799435

Patent Issue Date:

July 28, 1999

Publication No.:

0799435

Publication Date:

October 8, 1997

Serial No.:

95944160.1

Filed:

December 20, 1995

Related Case:

WSGR 17542-715 which is related to WSGR 17542-701, 17542-705, 17542-706

(SILS 1001, SILS 1007, SILS 1007CIP1)

Priority Date:

December 20, 1995

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-724

AU Patent Entitled:

COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Patent No.:

721357

Patent Issue Date:

May 9, 2000

Publication No.:

721357

Publication Date:

June 29, 2000

Serial No.:

35895/97

Filed:

June 30, 1997

Related Case:

WSGR 17542-726 which is related to WSGR 17542-712 (SILS 4002)

Priority Date:

July 2, 1996

Inventors:

Gregory Kintz and Alfred P. Hildebrand

Docket No.

P.23/30

MAR 27 '02 16:34 FR PW SF

JP Application Entitled: COMPOUND MAGNIFIED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

3206920

Patent Issue Date:

September 10, 2001

Publication No.:

10-511190

Publication Date:

October 27, 1998

Serial No.:

8-519,966

Filed:

December 20, 1995

Related Cases:

WSGR 17542-715 which is related to WSGR 17542-701, 17542-705, 17542-706

(SILS 1001, SILS 1007, SILS 1007CIP1)

Priority Date:

December 20, 1995

Status:

Issue fee paid; awaiting further action Alfred P. Hildebrand and Gregory Kintz

Inventors: Docket No.

17542-723 (SILS 1007 CIP1 CON1)

III. PENDING U.S. PATENT APPLICATIONS

Application Entitled:

HEAD-MOUNTED DISPLAY WITH MINIATURE SYNTHESIZED

VIRTUAL IMAGE ELECTRONIC DISPLAY

Serial No.:

09/018,027

Filed:

February 2, 1998.

Related Case:

None

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-729

Application Entitled:

COMPACT DISPLAY SYSTEM CONTROLLED

By eye position sensor system

Serial No.:

09/182,951

Filed:

October 29, 1998

Related Case:

WSGR 17542-701, 17542-705, 17542-706, 17542-720, (SILS 1001, SILS

1007, SILS 1007 CIP1, CON2, SILS 1007)

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-734

Application Entitled:

DISPLAY SYSTEM WITH LOCAL DECODING

Serial No.:

09/311,804

Filed:

May 13, 1999

Related Case:

WSGR 17542-731; 17542-735, 17542-748

inventors:

William Quantud

Docket No.:

17542-736

Application Entitled:

TRANSCRIPTION DEVICE WITH

VIRTUAL IMAGE DISPLAY

Serial No.:

09/226,845

Filed:

January 7, 1999

Related Case:

None

Inventors:

Alfred P. Hildebrand

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Docket No.:

17542-741

Application Entitled:

TRANSCRIPTION METHOD USING

VIRTUAL IMAGE DISPLAY

Serial No.: Filed:

09/226,738 January 7, 1999

Related Case:

None

Inventors:

Alfred P. Hildebrand

Docket No.:

17542-742

Application Entitled:

DISPLAY SYSTEM WITH MULTIPLEXED PIXELS

Serial No.:

09/369,685 August 5, 1999

Filed: Related Case:

WSGR 17542-731; 17542-735, 17542-736

Inventors:

William Quanrud

Docket No.:

17542-748

Application Entitled:

DISPLAY ILLUMINATION SYSTEM

Serial No.:

09/733,774

Filed:

December 8, 2000 WSGR 17542-745

Related Case:

Inventors:

Chih-Li Chuang, Zehn-Wu, Michael J. Curley, Gregory J. Kintz

Docket No.:

17542-765

Application Entitled:

VIRTUAL IMAGE DISPLAY WITH VIRTUAL KEYBOARD

Serial No.:

09/785,024

Filed: Related Case: February 15, 2001 Filed Same Day as 17542-754

Inventors:

Alfred P. Hildebrand

Docket No.:

17542-751

Application Entitled:

VIRTUAL IMAGE DISPLAY UNDER TOUCH PAD CONTROL

Serial No.:

09/785,025

Filed:

February 15, 2001

Related Case:

Filed Same Day as 17542-751

Inventors:

Alfred P. Hildebrand

Docket No.:

17542-754

Application Entitled:

DISPLAY ILLUMINATION SYSTEM

Serial No.:

09/394,014

Filed:

September 10, 1999

Related Case:

None

MAR 27 '02 16:34 FR PW SF 415 983 1200 TO 916023898836#2 P.25/30

Inventors: Docket No.: Chih-Li Chuang, Zheng-Wu Li, Gregory Kintz, and Michael Curley 17542-745

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MAR 27 '02 16:34 FR PW SF

Application Entitled:

DISPLAY SYSTEM WITH MULTIPLEXED PIXELS

Scrial No.:

09/369,685

Filed:

August 5, 1999

Related Case:

WSGR 17542-731; 17542-735, 17542-736; 17542-748

Inventors:

William Quanrud

Docket No .:

17542-766

IV. PENDING INTERNATIONAL PATENT APPLICATIONS

Application Entitled:

COMPOUND MAGNIFIED VIRTUAL IMAGE ELECTRONIC DISPLAY

Publication No.:

WO 96/19746

Publication Date:

June 27, 1996

Serial No.:

PCT/US95/16598 (PCT, European Search)

Filed:

December 20, 1995

Related Cases:

WSGR 17542-701, 17542-705, 17542-706 (SILS 1001, SILS 1007, SILS 1007CIP1)

Priority Dates:

December 21, 1994, March 17, 1995, May 15, 1995

Inventors: Docket No. Alfred P. Hildebrand and Gregory Kintz 17542-715 (SILS 1007 CIPI WO)

Application Entitled:

COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Publication No.:

WO98/00747

Publication Date:

January 8, 1998 PCT/US97/11498 (PCT, European Search)

Serial No.: Filed:

June 30, 1997

Related Case:

WSGR 17542-712 (SILS 4002)

Priority Date:

July 2, 1996

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-726 (SILS 4002 PCT)

EP Application Entitled: COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Publication No.:

0909402

Publication Date:

April 21, 1999 97932433.2

Serial No.: Filed:

June 30, 1997

Related Case:

WSGR 17542-726 which is related to WSGR 17542-712 (SILS 4002)

Priority Date:

July 2, 1996

Inventors:

Gregory Kintz and Alfred P. Hildebrand

Dacket No.

CA Application Entitled COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Serial No.:

2,258,094 June 30, 1997

Filed: Related Case:

WSGR 17542-726 which is related to WSGR 17542-712 (SILS 4002)

Priority Date:

July 2, 1996

Inventors:

Gregory Kintz and Alfred P. Hildebrand

Docket No.

17542-739

JP Application Entitled: COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Publication No.:

2000-514204

Publication Date:

October 24, 2000

Serial No.:

10-504430

Related Case:

WSGR 17542-726 which is related to WSGR 17542-712 (SILS 4002)

Filed:

June 30, 1997

Priority Date:

July 2, 1996

inventors:

Gregory Kintz and Alfred P. Hildebrand

Docket No.

17542-740

Application Entitled:

DISPLAY SYSTEM HAVING MULTIPLE MEMORY ELEMENTS PER

PIXEL

Publication No.:

WO99/60557 November 25, 1999

Publication Date: Serial No.:

PCT/US99/10719 (PCT, European Search)

Related Cases:

WSGR 17542-731

Filed:

May 13, 1999

Priority Date:

May 15, 1998

Inventors:

William Quantud

Docket No.

17542-746

Application Entitled:

TRANSCRIPTION DEVICE WITH VIRTUAL IMAGE DISPLAY

Publication No.:

WO 00/41025 July 13, 2000

Publication Date:

PCT/US99/30910

Serial No.:

December 23, 1999

Filed: Related Cases:

WSGR 17542-741

Priority Date:

January 7, 1999

Inventors:

Alfred P. Hildebrand

Docket No.

17542-755

MAY 08 2002 9:53AM HP LASERJET 3200 p.1
- MAR 27 '02 16:34 FR PW SF 415 983 1200 TO 916023898836#2 P.28/30

Docket No. 17542-764

11 .



Inviso Filed Patents

(Liquid Crystal Devices, ICs, Color and Drive Algorithms, Vision)

My Reference No.:

INV1P001

Title:

BALANCED BINARY COLOR DRIVE METHOD FOR

GRAPHICAL DISPLAYS AND SYSTEM IMPLEMENTING

SAME

Inventor(s):

Neil Bergstrom, James R. Huston, Gang Xu

My Reference No.:

INV1P002

Title:

SYSTEM AND METHOD FOR DIGITALLY CONTROLLED

WAVEFORM DRIVE METHODS FOR GRAPHICAL

DISPLAYS

INV1P003

Inventor(s):

James R. Huston, Neil Bergstrom, Gang Xu

My Reference No.:

Title:

SYSTEM AND METHOD FOR COLOR AND GRAYSCALE

DRIVE METHODS FOR GRAPHICAL DISPLAYS UTILIZING

ANALOG CONTROLLED WAVEFORMS

Inventor(s):

James R. Huston, Jinsuk Kang

My Reference No.:

Title:

INVIP004

SYSTEM AND METHOD FOR SUPERFRAME DITHERING IN

A LIQUID CRYSTAL DISPLAY

Inventor(s):

Neil Bergstrom, James R. Huston, Gang Xu

My Reference No.:

INV1P005

Title:

Title:

SYSTEM AND METHOD FOR A LIQUID CRYSTAL DISPLAY

UTILIZING A HIGH VOLTAGE BIAS MODE

Inventor(s):

Mark Flynn, Gang Xu, Jinsuk Kang

My Reference No.:

INV1P006

Abandoned

Inviso Confidential

MAR 27 '02 15:34 FR PW SF

P.30/30

My Reference No.:

INV1P007

Title:

OPTICALLY CORRECTIVE LENSES FOR A HEAD-

MOUNTED COMPUTER DISPLAY

Inventor(s):

James E. Sheedy, Alfred P. Hildebrand, Donald P. Porter

My Reference No.:

NVIP008

Title:

SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT

FOR MULTI-LEVEL STOCHASTIC SPATIAL DITHERING

FOR DISPLAYS

Inventor(s):

Louis D. Silverstein, Neil Bergstrom

My Reference No.:

INV1P009

Title:

SYSTEM AND METHOD FOR LOCAL DECODING OF A DIGITAL BIT SEQUENCE FOR SWITCHING STATES OF A PIXEL ON A TIME BASIS FOR CONTROLLING GRAYSCALE

AND GAMMA CORRECTION

Inventor(s):

James R. Huston, Jinsuk Kang, Mike Gunter

My Reference No.:

INVIPO10

Title:

SYSTEM AND METHOD FOR A COLOR RICH DISPLAY

CONTROLLER

Inventor(s):

James R. Huston

My Reference No.:

INV1P011

Title:

SYSTEM AND METHOD FOR A LIQUID CRYSTAL DISPLAY

UTILIZING FAST BINARY PIXEL SWITCHING

Inventor(s):

Gang Xu, Mark Flynn, James R. Huston, Neil Bergstrom

Inviso Confidential

** TOTAL PAGE.30 **

INTELLECTUAL PROPERTY

I. ISSUED PATENTS

Patent Entitled:

MINIATURE SYNTHESIZED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

5,644,323 July 1, 1997

Issued:

08/361.035

Serial No.: Filed:

December 21, 1994

Related Case:

None

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-701 (SILS 1001)

Patent Entitled:

COMPACT COMPOUND MAGNIFIED VIRTUAL IMAGE ELECTRONIC

DISPLAY

Patent No.:

5,625,372

Issued:

April 29, 1997 08/407,102

Serial No.:

WSGR 17542-701 (SILS 1001)

Related Case:

Alfred P. Hildebrand and Gregory Kintz

Inventors: Docket No.:

17542-705 (SILS 1007)

Patent Entitled:

TWICE FOLDED COMPOUND MAGNIFIED VIRTUAL IMAGE

ELECTRONIC DISPLAY

Patent No .:

5,684,497

Issued:

November 4, 1997

Serial No.:

08/441,529

Filed:

May 15, 1995

Related Case:

WSGR 17542-701, 17542-705 (SILS 1001, SILS 1007)

Inventors: Docket No.: Alfred P. Hildebrand and Gregory Kintz

17542-706 (SILS 1007 CIP1)

Patent Entitled:

COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Patent No.:

5,771,124

Issued:

June 23, 1998

Serial No:

08/673,894 July 2, 1996

Filed: Related Cases:

None

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-712 (SILS 4002)

Library: Phoenix; Document #: 184674v7

Patent Entitled:

MINIATURE SYNTHESIZED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

5,838,498

Issued:

November 17, 1998

Serial No.:

08/775,840

Filed:

December 31, 1996

Related Case:

WSGR 17542-701 (SILS 1001)

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-718 (SILS 1001 CON1)

Patent Entitled:

TWICE FOLDED COMPOUND MAGNIFIED VIRTUAL IMAGE

ELECTRONIC DISPLAY

Patent No.:

5,905,478 May 18, 1999 08/831,371

Issued: Scrial No.:

Filed:

April 1, 1997

Related Case:

WSGR 17542-701, 17542-705, 17542-706 (SILS 1001, SILS 1007, SILS 1007

Inventors: Docket No .: Alfred P. Hildebrand and Gregory Kintz 17542-719 (SILS 1007 CIP1 CON2)

Patent Entitled:

TWICE FOLDED COMPOUND MAGNIFIED VIRTUAL IMAGE

ELECTRONIC DISPLAY

Patent No.:

5,870,068

Issued: Serial No: February 9, 1999 08/831,106

Filed:

April 1, 1997

Related Case:

WSGR 17542-706 (SILS 1007 CIP1) Alfred P. Hildebrand and Gregory Kintz

Inventors: Docket No .:

17542-720 (SILS 1007 CIP1 CON3)

Patent Entitled:

COMPACT COMPOUND MAGNIFIED VIRTUAL DISPLAY WITH

REFLECTIVE/TRANSMISSIVE OPTIC

Patent No.:

5,991,084

Issued:

November 23, 1999

Serial No .:

09/018,259

Filed:

February 4, 1998

Related Case:

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-721

Patent Entitled:

MINIATURE SYNTHESIZED

VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

6,094,181 July 25, 2000

Issued: Serial No.:

09/017,048

Filed:

February 2, 1998

Related Case:

None

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-728

Library: Phoenix; Document #: 184674v7

Patent Entitled:

VIRTUAL IMAGE DISPLAY SYSTEM UTILIZING

TOTAL INTERNAL REFLECTION

Patent.No.:

5,892,624

Issued:

April 6, 1999

Serial No.:

09/033,208 March 2, 1998

Filed:

17542-712

Related Case: Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-732

Patent Entitled:

MINIATURE SYNTHESIZED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

5,973,845

Issued:

October 26, 1999

Serial No.:

09/182,952 October 29, 1998

Filed: Related Case:

WSGR 17542-701, 17542-718, (SILS 1001 CON1, SILS 1001))

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-733

Patent Entitled:

DISPLAY SYSTEM HAVING MULTIPLE MEMORY ELEMENTS

PER PIXEL WITH IMPROVED LAYOUT

Patent No.:

6,140,983

Issue Date: Serial No.: October 31, 2000 09/311,805

Senai No

May 13, 1999

Related Case:

WSGR 17542-731; 17542-736; 17542-748

Inventors:

William Quanrud

Docket No.:

17542-735

Patent Entitled:

OPTICAL METHOD EMPLOYING

TOTAL INTERNAL REFLECTION

Patent No.:

5,595,781

Issued:

September 28, 1999

Serial No.: Filed:

09/237,996 January 26, 1999

Related Case:

WSGR 17542-712: 17542-732

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-743

Patent Entitled:

COMPACT DISPLAY SYSTEM CONTROLLED

BY EYE POSITION SENSOR SYSTEM

Patent No.:

6,055,110 April 25, 2000

Issued: Serial No.:

09/372,651 August 11, 1999

Filed: Related Case:

WSGR 17542-712; 17542-732; 17542-743

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-749

Library: Phoenix; Document#: 184674v7

Patent Entitled:

PHONE WITH ERGONOMIC VIRTUAL IMAGE DISPLAY

Patent No.:

6,275,714

Issued:

August 14, 2001

Serial No.:

09/031,263

Filed:

February 26, 1998

Related Case:

None

Inventors:

Gregory Kintz and David Phillips

Docket No.:

17542-725

Application Entitled:

DISPLAY SYSTEM HAVING MULTIPLE ELEMENTS

PER PIXEL

Patent No.:

6,339,417

Issue Date:

January 15, 2002

Serial No.:

09/079,684

Filed:

May 15, 1998

Related Case:

WSGR 17542-735, 17542-736

Inventors:

William Quanrud

Docket No.

17542-731

II. ISSUED INTERNATIONAL PATENT APPLICATIONS

EP Patent Entitled:

COMPOUND MAGNIFIED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

0799435

Patent Issue Date:

July 28, 1999

Publication No.:

0799435

Publication Date:

October 8, 1997

Serial No.:

95944160.1

Filed:

December 20, 1995

Related Case:

WSGR 17542-715 which is related to WSGR 17542-701, 17542-705, 17542-706

(SILS 1001, SILS 1007, SILS 1007CIP1)

Priority Date:

December 20, 1995

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-724

AU Patent Entitled:

COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Patent No.: Patent Issue Date: 721357

Publication No.:

May 9, 2000 721357

Publication Date:

June 29, 2000

Serial No.: Filed:

35895/97 June 30, 1997

Related Case:

WSGR 17542-726 which is related to WSGR 17542-712 (SILS 4002)

Priority Date:

July 2, 1996

Inventors:

Gregory Kintz and Alfred P. Hildebrand

Docket No.

17542-738

Library: Phoenix; Document#: 184674v7

JP Application Entitled: COMPOUND MAGNIFIED VIRTUAL IMAGE ELECTRONIC DISPLAY

Patent No.:

3206920

Patent Issue Date:

September 10, 2001

Publication No.:

10-511190

Publication Date:

October 27, 1998

Serial No.:

8-519,966

Filed:

December 20, 1995

Related Cases:

WSGR 17542-715 which is related to WSGR 17542-701, 17542-705, 17542-706

(SILS 1001, SILS 1007, SILS 1007CIP1)

Priority Date:

December 20, 1995

Status:

Issue fee paid; awaiting further action Alfred P. Hildebrand and Gregory Kintz

Inventors: Docket No.

17542-723 (SILS 1007 CIP1 CON1)

III. PENDING U.S. PATENT APPLICATIONS

Application Entitled: HEAD-MOUNTED DISPLAY WITH MINIATURE SYNTHESIZED

VIRTUAL IMAGE ELECTRONIC DISPLAY

Serial No.:

09/018,027

Filed:

February 2, 1998

Related Case:

None

Status:

Abandoned Per Client

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.:

17542-729

Application Entitled:

COMPACT DISPLAY SYSTEM CONTROLLED

BY EYE POSITION SENSOR SYSTEM

Serial No.:

09/182,951

Filed:

October 29, 1998

Related Case:

WSGR 17542-701, 17542-705, 17542-706, 17542-720, (SILS 1001, SILS

1007, SILS 1007 CIP1, CON2, SILS 1007)

Status:

Response to Office Action due March 17, 2002

Inventors: Docket No.: Alfred P. Hildebrand and Gregory Kintz

17542-734

Application Entitled:

DISPLAY SYSTEM WITH LOCAL DECODING

Serial No.:

09/311,804 May 13 1000

Filed:

May 13, 1999

Related Case:

WSGR 17542-731; 17542-735, 17542-748

Status:

Abandoned Per Client

Inventors:

William Quanrud

Docket No.:

17542-736

Application Entitled:

TRANSCRIPTION DEVICE WITH

VIRTUAL IMAGE DISPLAY

Serial No.:

09/226,845

Library: Phoenix; Document#: 184674v7

Filed:

January 7, 1999

Related Case:

None

Status: Inventors: Abandoned Per Client Alfred P. Hildebrand

Docket No .:

17542-741

Application Entitled:

TRANSCRIPTION METHOD USING

VIRTUAL IMAGE DISPLAY

Scrial No .:

Filed:

09/226,738 January 7, 1999

Related Case:

None

Status: Inventors: Abandoned Per Client Alfred P. Hildebrand

Docket No .:

17542-742

Application Entitled:

DISPLAY SYSTEM WITH MULTIPLEXED PIXELS

Scrial No.:

09/369,685

Filed:

August 5, 1999

Related Case:

WSGR 17542-731; 17542-735, 17542-736

Status:

Allow this application to go abandoned in favor of Continuation Application 766

filed on November 15, 2001

Inventors:

William Quanrud

Docket No .:

17542-748

Application Entitled:

DISPLAY ILLUMINATION SYSTEM

Serial No.:

09/733,774

Filed:

December 8, 2000 WSGR 17542-745

Related Case:

Filed Request for Continued Examination and Amendment on November 13,

Status:

awaiting Examiner Response

2001; Inventors:

Chih-Li Chuang, Zehn-Wu, Michael J. Curley, Gregory J. Kintz

Docket No.:

17542-765

Application Entitled:

VIRTUAL IMAGE DISPLAY WITH VIRTUAL KEYBOARD 09/785,024

Serial No.: Filed:

February 15, 2001

Related Case:

Filed Same Day as 17542-754

Status:

Abandoned Per Client
Alfred P. Hildebrand

Inventors: Docket No.:

17542-751

Application Entitled:

VIRTUAL IMAGE DISPLAY UNDER TOUCH PAD CONTROL

Serial No.:

09/785,025

Filed:

February 15, 2001

Related Case:

Filed Same Day as 17542-751

Status:

Abandoned Per Client

Inventors:

Alfred P. Hildebrand

Docket No.:

17542-754

Library: Phoenix; Document #: 184674v7

Application Entitled:

DISPLAY ILLUMINATION SYSTEM

Serial No.:

09/394,014

Filed:

September 10, 1999

Related Case:

None

Status:

Filed Amendment on November 13, 2001; awaiting response from Examiner

Inventors:

Chih-Li Chuang, Zheng-Wu Li, Gregory Kintz, and Michael Curley

Docket No.:

17542-745

Application Entitled:

DISPLAY SYSTEM WITH MULTIPLEXED PIXELS

Serial No.:

09/369,685 August 5, 1999

Filed: Related Case:

WSGR 17542-731; 17542-735, 17542-736; 17542-748

Status:

Awaiting First Action William Quanrud

Inventors:

Docket No.:

17542-766

PENDING INTERNATIONAL PATENT APPLICATIONS IV.

Application Entitled:

COMPOUND MAGNIFIED VIRTUAL IMAGE ELECTRONIC DISPLAY

Publication No.:

WO 96/19746 June 27, 1996

Publication Date:

Serial No.:

PCT/US95/16598 (PCT, European Search)

Filed:

December 20, 1995

Related Cases:

WSGR 17542-701, 17542-705, 17542-706 (SILS 1001, SILS 1007, SILS

1007CIP1)

Priority Dates:

December 21, 1994, March 17, 1995, May 15, 1995

Status:

Nationalized into Japan (17542-723) and Europe (17542-724)

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-715 (SILS 1007 CIP1 WO)

Application Entitled:

COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Publication No.:

WO98/00747 January 8, 1998

Publication Date:

PCT/US97/11498 (PCT, European Search)

Scrial No.: Filed:

June 30, 1997

Related Case:

WSGR 17542-712 (SILS 4002)

Priority Date:

July 2, 1996

Status:

Nationalized into Europe (17542-737), Australia (17542-738), Canada (17542-

739),

and Japan (17542-740)

Inventors:

Alfred P. Hildebrand and Gregory Kintz

Docket No.

17542-726 (SILS 4002 PCT)

EP Application Entitled: COMPACT DISPLAY SYSTEM WITH TWO STAGE MAGNIFICATION

AND IMMERSED BEAM SPLITTER

Publication No.:

0909402

Publication Date:

April 21, 1999 97932433.2

Serial No.:

June 30, 1997

Filed: Related Case:

WSGR 17542-726 which is related to WSGR 17542-712 (SILS 4002)

Library: Phoenix; Document #: 184674v7

Inventors: Docket No. William Quanrud 17542-764

Library: Phoenix; Document#: 184674v7

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State of Belaware

PAGE

RECEIVED FOR RECORD

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RECORDER TAR



Office of Secretary of State

I, MICHAEL MARKINS, SECRETARY OF STATE OF THE STATE OF
DELAWAPE DO MEPEBY CEPTIFY THE ATTACHED IS A TRUE AND CORRECT
COPY OF CERTIFICATE OF MERGER OF "THREE-FIVE SYSTEMS, INC." A
CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF
DELAWARE, "ELECTRONIC RESEARCH ASSOCIATES, INC." A CORPORATION
ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW JERSEY,
MERGING WITH AND INTO "I F CONSCILIDATION, INC." A CORPORATION
ORGANIZED AND EXISTING LINDER THE LAWS OF THE STATE OF DELAWARE
UNDER THE NAME OF "THREE-FIVE SYSTEMS, INC." AS RECEIVED AND
FILED IN THIS OFFICE THE THE THIRTIETH DAY OF APRIL, A.D. 1998,
AT 4:36 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID CORPURATION SHALL BE GOVERNED BY THE LAWS OF THE STATE OF DELAWARE.



909116648

Michael Harkins, Secretary of

AUTHENTICATION: 2638538

"**DATE:** 18578171998

3/24244

SK 1014PG0773

CERTIFICATE OF MERGER OF ELECTRONIC RESEARCH ASSOCIATES, INC. AND THREE-FIVE SYSTEMS, INC. INTO T F CONSOLIDATION, INC.

(Under Section 252 of the General Corporation Law of the State of Delaware)

T F Consolidation, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: That the names and states of incorporation of each of the constituent corporations of the merger are:

NAME

STATE OF INCORPORATION

Three-Five Systems, Inc.
Electronic Research Associates, Inc.
T F Consolidation, Inc.

Delaware New Jersey Delaware

SECOND: That an Agreement and Plan of Reorganization (the "Agreement of Merger") has been approved, adopted, certified, executed and acknowledged by Three-Five Systems, Inc., T F Consolidation, Inc. and Electronic Research Associates, Inc. in accordance with the provisions of Section 252 of the General Corporation Law of the State of Delaware.

THIRD: That the name of the corporation surviving the merger is T F Consolidation, Inc.

FOURTH: That the restricted of incorporation of T F Consolidation, Inc. shall be the certificate of incorporation of the corporation surviving the merger except, however, effective the effective time of the merger, Article FIRST of the certificate of incorporation of the corporation surviving the merger shall be amended in its entirety to read as follows:

"The name of the corporation is Three-Five Systems, Inc. (the "Corporation")."

FIFTH: That the executed Agreement of Merger is on file at the principal place of business of T F Consolidation, Inc. at 10230 South 50th Place, Phoenix, Arizona 85044.

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SIXTH: That a copy of the Agreement of Merger will be furnished by T F Consolidation, Inc., on request and without cost, to any stockholder of Three-Five Systems, Inc., Electronic Research Associates, Inc., or T F Consolidation, Inc.

SEVENTH: That the authorized capital stock of Electronic Research Associates, Inc. is 4,500,000 shares of Common Stock, \$.10 per share, and 500,000 shares of Class A Preferred Stock, par value one dollar per share, of which 10,400 shares have been designated as Class A Preferred Stock, Series A, and 25,766 shares have been designated as Class A Preferred Stock, Series B.

EIGHTH: This merger shall become effective at 12:01 a.m. on May 1, 1990.

T F CONSOLIDATION, INC.

David R. Buchanan, President

ATTEST:

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PAGE



Gifice of Secretary of State

I, MICHAEL HARKINS, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF I F CONSOLIDATION, INC. FILED IN THIS OFFICE ON THE THIRTEENTH DAY OF FEBRUARY, A.D. 1990, AT 10 O'CLOCK A.M.

989844146

Michael Harkins, Secretary of State

AUTHENTICATION:

:2539236

DATE:

82/13/1998

RECORDED: 08/03/2004

CERTIFICATE OF INCORPORATION

OF

T F CONSOLIDATION, INC.

FIRST: The name of the corporation is T F Consolidation, Inc. (the "Corporation").

SECOND: The address of the Corporation's registered office in the State of Delaware is Corporation Trust Center, 1209 Orange Street, Wilmington, County of New Castle, Delaware 19801. The name of the Corporation's registered agent at that address is The Corporation Trust Company.

THIRD: The nature of the business or purposes to be conducted or promoted by the Corporation is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of the State of Delaware, as it may be amended from time to time (the "GCL").

FOURTH: A. The total number of shares that the Corporation has authority to issue is Six Million Three Hundred Thirty-Seven Thousand Seven Hundred Sixty-Three (6,337,763) shares, which will be divided into the following classes and series:

- 1. Five Million (5,000,000) shares of Common Stock, par value \$.01 per share;
- 2. Four Thousand F Hundred Twenty-Eight (4,428) shares of Class A Preferred Stock, par value \$.01 per share;
- 3. One (1) share of 2 B Preferred Stock, no par value per share;
- 4. Three Hundred i ty-Three Thousand Three Hundred Thirty-Four (333,334) shares of Class C Preferred Stox : r value \$.01 per share; and

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