

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	ASSIGNMENT				
CONVEYING PARTY DATA					
<table border="1" style="width: 100%;"> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> <tr> <td>Avago Technologies General IP (Singapore) Pte. Ltd. (Company Registration No. 200512430D)</td> <td>01/27/2006</td> </tr> </table>	Name	Execution Date	Avago Technologies General IP (Singapore) Pte. Ltd. (Company Registration No. 200512430D)	01/27/2006	
Name	Execution Date				
Avago Technologies General IP (Singapore) Pte. Ltd. (Company Registration No. 200512430D)	01/27/2006				
RECEIVING PARTY DATA					
Name:	Avago Technologies Imaging IP (Singapore) Pte. Ltd. (Company Registration No. 200512334M)				
Street Address:	No. 1 Yishun Avenue 7				
City:	Singapore				
State/Country:	SINGAPORE				
Postal Code:	768923				
PROPERTY NUMBERS Total: 45					
Property Type	Number				
Application Number:	09675194				
Application Number:	09675920				
Application Number:	10021957				
Application Number:	09715628				
Application Number:	09832583				
Application Number:	09948343				
Application Number:	09832607				
Application Number:	10007232				
Application Number:	10092772				
Application Number:	10630506				
Application Number:	10630419				
Application Number:	10365563				
Application Number:	10650160				
Application Number:	10655418				

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PATENT
REEL: 017683 FRAME: 0113

Application Number:	10714051
Application Number:	10689321
Application Number:	10840696
Application Number:	10773895
Application Number:	10821821
Application Number:	11149768
Application Number:	10826738
Application Number:	10915006
Application Number:	10940863
Application Number:	11016004
Application Number:	10913735
Application Number:	11118591
Application Number:	11144215
Application Number:	10991827
Application Number:	11138128
Application Number:	11069188
Application Number:	11087284
Application Number:	10997021
Application Number:	10996968
Application Number:	10990022
Application Number:	10997572
Application Number:	11121402
Application Number:	11105816
Application Number:	10974079
Application Number:	10977247
Application Number:	10976937
Application Number:	11013820
Application Number:	11087453
Application Number:	10625971
Application Number:	10859698
Application Number:	10897945

CORRESPONDENCE DATA

Fax Number: (312)321-4299

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 312 321-4200
Email: asalasche@brinkshofer.com
Correspondent Name: BRINKS HOFER GILSON & LIONE
Address Line 1: P.O. Box 10395
Address Line 4: Chicago, ILLINOIS 60610

ATTORNEY DOCKET NUMBER:

13036-177

NAME OF SUBMITTER:

Joseph F Hetz

Total Attachments: 29

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AMENDED AND RESTATED ASSIGNMENT AND ASSUMPTION AGREEMENT

This Amended and Restated Assignment and Assumption Agreement (the "Amended and Restated Agreement") is made and entered into as of January 27, 2006 (the "Effective Date"), by and between Avago Technologies General IP (Singapore) Pte. Ltd. (Company Registration No. 200512430D), a company incorporated under the laws of Singapore whose registered office is at No. 1 Yishun Avenue 7, Singapore 768923 ("Assignor"), and Avago Technologies Imaging IP (Singapore) Pte. Ltd. (Company Registration No. 200512334M), a company incorporated under the laws of Singapore whose registered office is at No. 1 Yishun Avenue 7, Singapore 768923 ("Assignee").

WHEREAS, Assignor and Assignee are parties to an Assignment and Assumption Agreement dated as of December 1, 2005 ("Original Agreement");

WHEREAS, Assignor and Assignee desire to amend and restate the Original Agreement in order to clarify the intent of the parties;

WHEREAS, Avago Technologies Pte. Ltd. (f/k/a Argos Acquisition Pte. Ltd.) and Agilent Technologies, Inc. ("Agilent") are parties to that certain Asset Purchase Agreement dated as of August 14, 2005, as amended (the "Purchase Agreement"), pursuant to which Agilent has agreed to assign to Assignor the Transferred Business Intellectual Property, the Transferred Business Intellectual Property Rights, certain Business Intellectual Property Licenses, and the Assumed Liabilities directly relating to the foregoing (all as defined therein) (collectively, the "Assigned Items");

WHEREAS, pursuant to the Purchase Agreement, Agilent assigned the Assigned Items to Assignor, and Assignor agreed to assume the obligations pertaining to such Assigned Items; and

WHEREAS, Assignor and Assignee are parties to that certain Consortium Agreement dated as of December 1, 2005 (the "Consortium Agreement"), pursuant to which the Assignor has agreed to assign certain rights and obligations to Assignee;

NOW, THEREFORE, for and in consideration of the promises and the mutual covenants contained herein, and for the other good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the parties hereby amend and restate the Original Agreement, which such amended and restated agreement shall be as follows:

1. Capitalized Terms. Capitalized terms used but not defined herein shall have the meanings for such terms that are set forth in the Purchase Agreement or the Consortium Agreement.

2. Assignment and Assumption. Assignor hereby assigns, sells, transfers and sets over (collectively, the "Assignment") to Assignee (a) all of the Exclusive Intellectual Property Rights relating exclusively to the Business conducted by the Assignee or its Subsidiaries on the Closing Date after giving effect to the transactions contemplated in the Purchase Agreement (collectively, the "Acquired Items"), including, but not limited to, the Exclusive Intellectual

Property Rights listed in the Schedules to this Amended and Restated Agreement; (b) all of the Assumed Liabilities directly relating to such Acquired Items; and (c) all of Assignor's right, title and interest in and to any and all proceeds, causes of action and rights of recovery for past and future infringement or misappropriation of any of the Acquired Items. The Acquired Items are conveyed subject to any and all licenses, permissions, consents or other rights that may have been granted by Assignor or its predecessors-in-interest with respect thereto prior to the Effective Date. Assignee hereby accepts the Assignment and assumes and agrees to observe and perform all of the duties, obligations, terms, provisions, and covenants of, and to pay and discharge, all of the Assumed Liabilities directly relating to the Acquired Items (other than those Assumed Liabilities that are conveyed pursuant to the other instruments of transfer executed pursuant to the Purchase Agreement).

3. Terms of the Purchase Agreement. Assignor acknowledges and agrees that the representations, warranties, covenants, agreements, and indemnities contained in the Purchase Agreement shall not be superseded hereby but shall remain in full force and effect to the full extent provided therein. In the event of any conflict or inconsistency between the terms of the Purchase Agreement and the terms hereof, the terms of the Purchase Agreement shall govern.

4. Further Actions. Each of the parties hereto covenants and agrees, at its own expense, to execute and deliver, at the request of the other party hereto, such further instruments of transfer and assignment and to take such other action as such other party may reasonably request to more effectively consummate the assignments and assumptions contemplated by this Amended and Restated Agreement.

5. Consent to Assignment. This Amended and Restated Agreement shall not constitute an assignment of any claim, contract, permit, franchise, or license if the attempted assignment thereof, without the consent of the other party thereto, would constitute a breach of such claim, contract, permit, franchise, or license or in any way adversely affect the rights of the Assignor thereunder. If such consent is not obtained, or if any attempted assignment thereof would be ineffective or would adversely affect the rights of Assignor thereunder so that Assignee would not in fact receive all such rights, then Assignee may act as the attorney-in-fact of Assignor in order to obtain for Assignee the benefits thereunder.

6. No Additional Remedies. Nothing in this instrument, express or implied, is intended or shall be construed to confer upon, or give to, any person, firm, or corporation other than Assignee and its successors and assigns, any remedy or claim under or by reason of this instrument or any terms, covenants, or conditions hereof, and all the terms, covenants and conditions, promises, and agreements contained in this instrument shall be for the sole and exclusive benefit of Assignee and its successors and assigns.

7. Governing Law. This Amended and Restated Agreement shall be governed in all respects, including validity, interpretation and effect, by the laws of the State of California.

8. Counterparts. This Amended and Restated Agreement may be executed in one or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties and

delivered to the other party, it being understood that all parties need not sign the same counterpart.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties have caused this Amended and Restated Agreement to be executed as of the Effective Date.

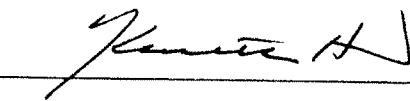
ASSIGNOR

**AVAGO TECHNOLOGIES GENERAL IP
(SINGAPORE) PTE. LTD.**

By: 
Name: _____
Title: **KENNETH Y. HAO
Director**

ASSIGNEE

**AVAGO TECHNOLOGIES IMAGING IP (SINGAPORE)
PTE. LTD.**

By: 
Name: _____
Title: **KENNETH Y. HAO
Director**

IN WITNESS WHEREOF, the parties have caused this Amended and Restated Agreement to be executed as of the Effective Date.

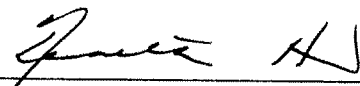
ASSIGNOR

**AVAGO TECHNOLOGIES GENERAL IP
(SINGAPORE) PTE. LTD.**

By: 
Name: _____
Title: **KENNETH Y. HAO**
Director

ASSIGNEE

**AVAGO TECHNOLOGIES IMAGING IP (SINGAPORE)
PTE. LTD.**

By: 
Name: _____
Title: **KENNETH Y.**
Director

SCHEDULE 1.

PATENT APPLICATIONS AND ISSUED PATENTS

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Digital Analog Converter Of A Video Subsystem	JP	Granted	3/17/95	PH07-086199			12/19/03	P3504374
Binary Image Scaling By Piecewise Pilynomial Interpolation	US	Granted	8/5/94	08/286561			5/6/97	5627953
A Printer Formatter In A Cable	US	Pending	9/29/00	09/675194				
Printer Formatter In A Removable Card	US	Pending	9/29/00	09/675920				
Metallic Optical Barrier For Photo-Detector Array Is Also Interconnecting Electrode	US	Granted	4/25/00	09/558461			9/24/02	6455836
Metallic Optical Barrier For Photo-Detector Array Is Also Interconnecting Electrode	JP	Pending	4/23/01	P2001-124296	1/31/02	2002-03347		
Telecentric Singlet Having A Small Height Requirement	US	Published	3/1/02	10/087278	9/4/03	0165023		
Solid State Image Sensor Array For Correcting Curvilinear Distortion Of A Camera Lens System And Method For Fabricating The Image Sensor Array	TW	Granted	9/10/02	91120601	6/21/04	595216	10/19/04	205329
Defective Pixel Correction Method And System	JP	Pending	4/5/02	P2002-103422	1/10/03	2003-00900		

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Simplified Upper Electrode Contact Structure For PIN Diode Active Pixel Sensor	US	Granted	3/16/01	09/810852	9/19/02	0130380	11/18/03	6649993
Simplified Upper Electrode Contact Structure For PIN Diode Active Pixel Sensor	US	Granted	11/26/02	10/306050	5/8/03	0085410	6/7/05	6902946
System Solution For Amorphous LAG Problem	KR	Pending	10/4/01	2001-0061132				
System And Method For Capturing Color Images That Extends The Dynamic Range Of An Image Sensor	US	Granted	5/2/01	09/847968	11/7/02	0163583	8/2/05	6924841
System And Method For Capturing Color Images That Extends The Dynamic Range Of An Image Sensor	JP	Pending	4/25/02	P2002-123538	1/24/03	2003-02244		
Printer Pen Carriage Support	US	Granted	12/14/01	10/021957	6/19/03	0112313	7/22/03	6595633
Printer Pen Carriage Support	JP	Published	11/29/02	P2002-347163	7/9/03	2003191561		

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Digital Camera And Method For Communicating Digital Image And At Least One Address Image Stored In The Camera To A Remotely Located Service Provider	US	Granted	2/14/00	09/504825			3/30/04	6715003
Interpolation Of Edge Portion Of A Digital Image	US	Granted	7/14/00	09/615963			3/16/04	6707937
Digital Imaging System And Method For Adjusting Image-capturing Parameters Using Image Comparisons	US	Pending	10/3/01	09/970611	4/3/03	0063213		
Hysteresis In Image Processing Algorithms	US	Pending	3/22/01	09/815019				
Bottom Antireflection Coating Color Filter Process For Fabricating Solid State Image Sensors	US	Granted	8/23/01	09/938394	2/27/03	0038293	7/20/04	6765276

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
A Socketable Flexible Circuit Based Electronic Device Module And A Socket For The Same	US	Granted	7/27/01	09/919562			8/20/02	6435882
Digital Color Image Sensor With Elevated Two-Color Photo-Detector And Related Circuitry	US	Granted	1/10/02	10/043810			5/20/03	6566723
A System And Method For Processing Demosaiced Images To Reduce Color Aliasing Artifacts	US	Granted	6/19/01	09/885389	12/19/02	0191854	11/16/04	6819801
Bad Pixel Detection And Correction In An Image Sensing Device	US	Granted	6/28/01	09/895627	1/2/03	0001078	5/18/04	6737625
Two-Color Photo-Detector And Methods For Demosaicing A Two-Color Photo-Detector Array	US	Published	2/27/02	10/086125	8/28/03	0160157		
Apparatus And Method For Generating Multi-Image Scenes With A Camera	US	Pending	12/6/01	10/011155				
Digital Image System And Method For Implementing An Adaptive Demosaicing Method	US	Pending	8/27/01	09/940825	3/20/03	0052981		
Apparatus And Method For Obtaining Average Scene Intensity Information From A Photo Detector Array	US	Published	12/6/01	10/008968	6/12/03	0107665		

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Method And Apparatus For Improving Image Quality In Digital Cameras	US	Granted	8/10/01	09/928187	2/13/03	0030648	11/23/04	6822657
Resolution And Image Quality Improvements For Small Image Sensors	US	Published	7/19/02	10/199376	1/22/04	0013319		
Method And Apparatus For Removing Flicker From Images	US	Pending	8/10/01	09/927201	2/13/03	0030744		
Correlation-Based Color Mosaic Interpolation Adjustment Using Luminance Gradients	US	Pending	2/18/03	10/369356				
Electronic Device With Digital Camera For General-Purpose Photography And Fingerprint Sensing	US	Published	3/7/02	10/094567	9/11/03	0169905		
Method And Apparatus For Performing Optical Character Recognition (OCR) And Text Stitching	US	Pending	3/7/02	10/092772				

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Glass Attachment Over Micro-lens Arrays	US	Granted	6/26/02	10/184154	1/1/04	0002179	6/1/04	6744109
Apparatus And Method For Detecting And Compensating For Illuminant Intensity Changes Within An Image.	US	Pending	3/14/03	10/388813				
Multifunction Lens	US	Published	10/7/02	10/266538	4/8/04	0066463		
A CMOS IMAGE SENSOR WITH VARIABLE CONVERSION GAIN	US	Published	10/29/02	10/283970	4/29/04	0079977		
Digital Image System And Method For Combining Demosaicing And Bad Pixel Correction	US	Published	8/16/02	10/222150	2/19/04	0032516		
Systems And Methods For Wavelength Conversion Using Photonic Bandgap Shifting	US	Granted	1/23/03	10/349797	7/29/04	0146243	6/14/05	6906853
Optically-Controlled Switch And Optically-Controlled Optical Switching Method Using Dispersion Curve Shifting	US	Published	12/6/02	10/313358	6/10/04	0109632		6744109
Customizing Traveling Wave Optical Modulators	US	Published	5/27/03	10/446037	12/2/04	0240789		
Digital Optical Sourcing And Methods Of Operating A Digital Optical Source	US	Published	6/17/02	10/173056	12/18/03	0231677		
Method For Detecting And Correcting Defective Pixels In A Digital Image Sensor	US	Published	9/18/02	10/246124	3/18/04	0051798		

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
A Method And Apparatus For Distributed Analyses Of Images	US	Pending	12/15/04	11/011073				
CMOS Stereo Imaging System And Method	US	Published	10/9/03	10/682708	4/14/05	0077450		6906853
System And Method For Detecting And Correcting Defective Pixels In A Digital Image Sensor	US	Pending	12/9/04	11/007979				6744109
System And Method For Focusing A Digital Camera	US	Pending	11/16/04	10/989615				
Method And Apparatus For Optimizing Image Sensor Noise And Dynamic Range	US	Pending	4/30/03	10/427318				
Camera Module With Focus Adjustment Structure And Systems And Methods Of Making The Same	US	Published	7/8/03	10/615622	1/13/05	0007485		
Imaging Surveillance System And Method For Event Detection In Low Illumination	US	Published	11/24/03	10/720411	5/26/05	0111696		

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Reducing Image Sensor Lag	US	Published	7/8/03	10/615522	1/13/05	0007473		
Device & Method For Digitizing A Serialized Scanner Output Signal	US	Published	7/29/03	10/630506	2/3/05	0023350		
Digital Correlated Double Sampling Using Dual Analog Path	US	Published	8/29/03	10/651597	3/3/05	0046715		
Printer Formatter With Print Server	US	Published	7/30/03	10/630419	2/3/05	0024664		
Laser Print Apparatus That Generates Pulse Width Value And Justification Value Based On Pixels In A Multi-Bit Image.	US	Published	2/12/03	10/365563	8/12/04	0156079		
Image Forming Device And Method	US	Published	8/27/03	10/650160	3/3/05	0046877		
Image Enhancement Employing Partial Template Matching	US	Published	7/23/03	10/625971	1/27/05	0018918		
Apparatus Including A Dual Camera Module And Method Of Using The Same	US	Published	8/29/03	10/651599	3/3/05	0046740		
Efficient Printer Control Electronics	US	Published	9/3/03	10/655418	3/17/05	0057770		
Digital Camera That Enters A Sub-Sampling Mode For At Least One Auto Function	US	Published	2/7/03	10/360188	8/12/04	0155977		
Fixed-Focus Camera Module And Associated Method Of Assembly	US	Published	8/12/03	10/639799	2/17/05	0036778		
Integrally Packaged Imaging Module	US	Published	10/14/03	10/684619	4/14/05	0077458		

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
System And Method For Shape Reconstruction From Optical Images	US	Published	3/20/03	10/392948	9/23/04	0184648		
Motion Detecting Camera System	US	Pending	4/25/03	10/423523				
Anti-Blooming Circuit For CMOS Image Sensors	US	Granted	8/17/01	09/931983	2/20/03	003433	10/14/03	6633028
Dark Reduction Via Feedback Control Of Photodiode Bias	US	Published	12/19/03	10/742070	6/23/05	0134715		
Method And Apparatus For Color Formatting In A Color Printer	US	Published	11/14/03	10/714051	5/19/05	0104930		
Independent Video Hardware Blocks To Support Laser Printers	US	Published	10/20/03	10/689321	5/5/05	0094164		
Camera Module With Ambient Light Detection	US	Pending	3/30/04	10/814072				
Host -Based Printer Driver	US	Pending	5/5/04	10/840696				
Photo-Array Layout For Monitoring Image Statistics	US	Pending	1/9/04	10/754434				

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Image Rendering Apparatus With Print Preview Projection Mechanism	US	Pending	2/5/04	10/773895				
Method And System For Wavelength-Dependent Imaging And Detection Using A Hybrid Filter	US	Published	12/18/03	10/739831	6/23/05	0133693		
Two-Dimensional CMOS Sensor Array To Image Documents And Other Flat Objects	US	Pending	4/8/04	10/821821				
Handheld Printer	US	Pending	6/10/05	11/149768				
Printer With Selectable Capabilities	US	Pending	4/16/04	10/826738				
Image Processing Apparatus With Symmetric Processors	US	Pending	8/9/04	10/915006				
Printer For Cutting Patterns In Paper	US	Pending	6/2/04	10/859698				
Printer With Speech Transcription Of A Recorded Voice Message	US	Pending	7/23/04	10/897945				
Laser Printer For Braille	US	Pending	9/13/04	10/940863				
Use Of Telephone-Specific Components To Provide Refocusing In A Camera-Ready Device	US	Pending	8/5/04	10/912952				
Camera Module With Dust Trap	US	Pending	5/4/04	10/838281				

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Devices With Mechanical Drivers For Displaceable Elements	US	Pending	6/29/04	10/879610				
Method And System For Capturing Close-Up Images In A Cellular Telephone	US	Pending	4/5/04	10/818405				
Multiple Image Autofocus	US	Pending	5/28/04	10/857050				
Color Image Sensor With Imaging Elements Imaging On Respective Regions Of Sensor Elements	US	Published	12/18/03	10/741774	6/23/05	0134698		
Color Image Sensor Having Imaging Element Array Forming Images On Respective Regions Of Sensor Elements	US	Published	12/18/03	10/740935	6/23/05	0134712		
Light Filtering Image Sensor	US	Pending	5/21/04	10/851012				
Digital Camera Producing Image Embedded With Diagnostic Characteristic	US	Pending	5/7/04	10/841854				
Spectral Normalization Using Illuminant Exposure Estimation	US	Pending	2/8/05	11/054095				
Camera Module	US	Pending	3/5/04	10/794961				

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Multi-Magnification Color Image Sensor	US	Pending	8/25/04	10/927328				
Image Sensor Having Integrated Electrical Optical Device And Related Method	US	Pending	8/24/04	10/926152				
Laser Printer With Reduced Banding Artifacts	US	Pending	12/16/04	11/016004				
Method And Apparatus For Determining The Mechanical Sinusoidal Deflection Angle Of An Oscillating Mirror In A Laser Printer	US	Pending	8/6/04	10/913735				
System And Method For Scaling Data To Compensate For Slanted Scanning In A Bidirectional Scanning Laser Printer	US	Pending	4/28/05	11/118591				
CMOS Image Sensor With Reduced 1/f Noise	US	Pending	5/10/04	10/842303				
Printer With Piercing Device	US	Pending	6/2/05	11/144215				
Scanning Non-Flat Objects With A 2-D CMOS/CCD Sensor	US	Pending	11/19/04	10/991827				
System And Method For Generating A Custom Font	US	Pending	5/26/05	11/138128				
Inkjet Printer With Carbon Copy Capability	US	Pending	2/28/05	11/069188				
Camera That Stores Pictures On A Remote System	US	Pending	2/28/05	11/068152				
Hybrid Printer And Related System And Method	US	Pending	3/22/05	11/087284				
First-In-First-Out Intermediate Image Storage	US	Pending	9/23/04	10/948505				

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
System And Method For Creating Document Effects	US	Pending	11/23/04	10/997021				
System And Method For Creating Document Finishes	US	Pending	11/23/04	10/996968				
Boost Signal Interface Method And Apparatus	US	Pending	11/3/04	10/981011				
Imaging With Clustered Photosite Arrays	US	Pending	12/9/04	11/008451				
Camera With Scalable Resolution	US	Pending	8/9/04	10/915591				
Wireless Printer Configuration Module	US	Pending	11/16/04	10/990022				
Printer Based Modem	US	Pending	11/24/04	10/997572				
Systems For And Methods Of Remote Host-Based Media Presentation	US	Pending	5/3/05	11/121402				
Systems For And Methods Of Presenting Digital Images	US	Pending	4/13/05	11/105816				
Imaging System	US	Pending	10/27/04	10/974077				

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Laser Print Apparatus With Dual Halftones	US	Pending	10/27/04	10/974079				
System And Method For Bonding Camera Components After Adjustment	US	Pending	9/9/04	10/936900				
Laser Print Apparatus With Toner Explosion Compensation	US	Pending	10/29/04	10/977247				
Method And Apparatus For Image Processing	US	Pending	9/10/04	10/938098				
Method And Apparatus For Image Processing	US	Pending	9/20/04	10/945735				
An Image Processing Method And Device	US	Pending	9/16/04	10/941859				
Resolution Doubling For Printer Apparatus	US	Pending	10/29/04	10/976937				
Method And System For Determining Motion Based On Difference Image Correlation	US	Pending	12/16/04	11/014482				
Auto-Focus System Using Bubble Technology	US	Pending	11/3/04	10/981272				
Method And System For Reducing Artifacts In Image Detection	US	Pending	6/30/04	10/882038				
Multiple-Function Inkjet Printing System With Single Motor For Carriage And Scan Head Motion	US	Pending	12/16/04	11/013820				
Multiple-Function Inkjet Printing System With Single Motor For Carriage And Scan Head Motion	US	Pending	12/16/04	11/013820				

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Image Encoding With Dynamic Buffer-Capacity-Level-Based Compression Adjustment	US	Pending	11/12/04	10/987260				
Imaging Systems And Methods	US	Pending	11/19/04	10/994077				
Setting Imager Parameters Based On Configuration Patterns	US	Pending	3/23/05	11/087453				
System And Method For Processing Images Using Centralized Image Correction Data	US	Pending	5/25/05	11/136941				
Method Of De-Skewing A Scan Captured By A 2-D Imager	US	Unfiled						
System And Method For Detecting Thermal Anomalies	US	Pending	2/26/05	11/067451				
Motion Detecting Camera System	US	Pending	3/14/05	11/079401				
Target-Less Camera Focus System	US	Unfiled						

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Patent #
Dark Current / Channel Difference Compensated Image Sensor	US	Pending	5/27/05	11/140650				
Method Of Crosstalk Reduction In CMOS Image Sensors	US	Unfiled						
Lens Focusing Device With Latching Shoe	US	Pending	6/2/05	11/143989				
Pixel With Spatially Varying Metal Route Position	US	Pending	5/6/05	11/123782				
Method And Apparatus For Improving The Performance Of A Host-Based Color Printing System	US	Pending	6/2/05	11/143148				
Method And Apparatus For A Self-Calibrating And/or Self-Testing Digital Imaging Device	US	Unfiled						
Method And Apparatus For Adaptive Motor Speed Control	US	Pending	5/6/05	11/123437				
Pixel With Asymmetric Transfer Gate Channel Doping	US	Pending	6/3/05	11/144304				
Offset Removal And Spatial Frequency Band Filtering Circuitry For Photoreceiver Signals	US	Granted	1/25/96	08/591076			12/30/97	5703353
A Frame-Accurate Video Capturing System And Method	US	Granted	5/14/98	09/079137			9/11/01	6289163
An Analog Current Mode Assisted Differential To Single-Ended Read-Out Channel Operable With An Active Pixel Sensor	US	Granted	2/2/98	09/018022			3/13/01	6201572

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Patent #
An Optical Device Package Including An Aligned Lens (As Amended)	US	Granted	8/25/98	09/139692			3/14/00	6037641
A Register Pixel For Liquid Crystal Displays	US	Granted	2/25/98	09/030245			9/5/00	6115019
An Adjustable Gain Active Pixel Sensor	US	Granted	11/3/97	08/962628			6/12/01	6246436
A CMOS Active Pixel With Memory For Imaging Sensors	US	Granted	4/8/98	09/057429			4/22/03	6552745
Integrated Micro-Display System	US	Granted	6/18/98	09/099918			6/12/01	6246386
High Gain Current Mode Photo-Sensor	US	Granted	5/19/98	09/080996			10/19/99	5969399
CMOS Active Pixel Sensor Having In-Pixel Local Exposure Control	US	Granted	11/18/98	09/195588			6/17/03	6580454
A Multiple Color Detection Elevated Pin Photo Diode Active Pixel Sensor	US	Granted	12/1/98	09/203445			8/29/00	6111300

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Random Access Memory Integrated With CMOS Sensors	US	Granted	11/18/99	09/442650	6/6/02	0067417	3/4/03	6529240
A Test Efficient Method Of Classifying Image Quality Of An Optical Sensor Using Three Categories Of Pixels	US	Granted	10/30/98	09/183143			7/15/03	6593961
CMOS Image Sensor With Extended Dynamic Range	US	Pending	2/16/01	09/788044	8/22/02	0113887		
Image Screen And Method Of Forming Anti-Reflective Layer Thereon	US	Granted	8/4/99	09/368485			7/15/03	6594079
Gamma Correction For Displays	US	Granted	10/31/00	09/703418			3/2/04	6700561
Integrated Circuit Packaging For Optical Sensor Devices	US	Granted	2/25/00	09/513797			5/28/02	6396116
Autofocus Detecting System And Assistant Module Therefor	JP	Pending	10/20/04	P2004-305977				
Autofocus Detecting System And Assistant Module Therefor	JP	Pending	10/20/04	P2004-305977				
Leadless Leadframe Electronic Package And Sensor Module Incorporating Same	US	Published	2/24/03	10/372908	8/26/04	0165356		
A Fixed-Focus Digital Camera With Defocus Correction And A Method Thereof	US	Published	12/5/02	10/313598	6/10/04	0109080		
Camera Module Having Geared Lens Barrel	US	Published	1/3/03	10/336358	7/8/04	0130656		
Flexible Camera Lens Barrel	US	Published	6/4/03	10/455283	12/9/04	0246370		
Image Acquisition Timing System And Method	US	Pending	1/9/04	10/754950				
Variable Focus Optic Module And Optic System	US	Pending	9/10/04	10/939259				

Title	Ctry	Status	Filing Date	App #	Pub Date	Pub #	Issue Date	Pat #
Image Capture Device	US	Pending	9/3/04	10/934709				
Methods For Packaging An Image Sensor And A Packaged Sensor	US	Pending	5/27/05	11/140157				
Integrated Circuit Metallization Using A Titanium/Aluminum Alloy	US	Granted	10/27/00	09/698459				6646346
CMOS Image Sensor With Active Reset And 4-transistor Pixels	US	Pending	4/14/03	10/413892				
System And Method For Collecting Images Of A Monitored Device	US	Pending	1/7/05	11/031747				
Method For Fabricating Low Leakage Interconnect layers In Integrated Circuits	US	Pending	11/9/04	10/984701				

SCHEDULE 2.

PATENT DISCLOSURE DOCUMENTS

Title	Discovery Date
Non-Aligned Color Data Planes For In-line Color Laser Printer	5/9/03
Read-modify-write ARM With ECC.....	7/21/03
Improved Color Pixel Sensor	1/21/04
Stereoscopic Range Finder	7/16/04
Hand Blur Correction Business Method	12/22/04
A Method For Analog Vertical Sub-Sampling In A CMOS Image Sensor	12/20/04
A Novel Solution For Dim Row Suppression In 3T CMOS APS	1/7/05
Document Scanning Using Magnetic Levitation Instead Of Mechanical Motors	1/13/05
2D- Array Of Light Emitting Nano Tubes For Large Surface Toner Attraction	1/13/05
A Complete Printer Controller Implemented As A System In A Package	1/13/05
Enabling Lowest-Cost Wireless Imaging Solution By Combining The Baseband Processing And Image Processing On A Single Chip SOC CPU	1/13/05
Scaling An Image With RET Hardware/firmware	1/13/05
Mechanical Driveroller Braking For Printer Image Quality Enhancement	1/21/05
Optimized Constant Image Region Detection Through Window Leading Edge Analysis	1/28/05
High- Speed Photo Quality Print Mode	2/10/05
Low Cost Position Feedback Method For Ink-Jet Printing System	2/10/05
Inkjet Printhead Using Laser-Based Heating	2/10/05
Scanner Carriage Mechanism With Optical Or Wireless Interfacer	2/10/05
Image Capturing Device With Focus Signal Feedback	3/22/05
Inline Color Laser With A Single Rotating Mirror	4/12/05
A Method And System For Creating A Low-Cost, Simple User Interface For A Combined Scan, Copy And Print Device (AIO)	4/11/05
A Method And System For Creating A Low-Cost User Input Interface For A Combined Scan, Copy And Print Device (AIO)	4/12/05
CMOS Pixel Array As One Functional Block Inside The Programmable Gate Array Like RAM, ROM, PLI, Various Standard IO Interfaces	4/25/05
A Novel Approach For A Low Cost Multi Camera System	4/27/05
Algorithm Shifting Of CMOS Sensing Elements To Optimize Performance	4/29/05
Image Blur Reduction Or Image Stabilization Using A Single Camera Array	6/2/05
Image Blur Reduction Using Dual Cameras	6/7/05
Method For Faster Access To Color Table Data Used In Colorspace Conversation	3/22/05
Vertical Tri-Color Sensor	5/20/05
Shallow CMOS Sensor With Molecular/metal Film That Reduced Cross Talk	6/13/05

SCHEDULE 3.

TRADEMARKS

NONE

SCHEDULE 4.

MASK WORKS

Reg Number	Title	Effective Date
MW 14-877	1QS4 (CORTEZ)	1-Nov-99
MW 14-880	2AA7 (ARTHUR)	1-Nov-99
MW 14-881	1QU7 (PUPIL)	1-Nov-99
MW 15-300	2AD1 (NEONITE)	5-Jun-00
MW 15-302	1RY8 (KAYAK)	5-Jun-00
MW 15-303	2AF7 (ANDROSQ)	5-Jun-00
MW 15-304	2AF1 (DINGO)	5-Jun-00
MW 15-305	2AE7 (HOUSTON)	5-Jun-00
MW 15-306	1QU3(CYCLOPS)	5-Jun-00
MW 15-351	1RW3(MOTHERLODE)	5-Jun-00
MW 15-872	2AJ8 (I4)	5-Jul-01
MW 15-894	2AG7 (BEDROCK)	5-Jul-01
MW 15-895	1MY9 (ZIMBU)	5-Jul-01
MW 15-896	2AF3 (ANDROS-PLUS)	5-Jul-01
MW 15-900	2AL4 (THE BRAIN)	5-Jul-01
MW 15-902	2AG8 (EYEQUEUE)	5-Jul-01
MW 15-903	2AK1 (AJAX)	5-Jul-01
MW 15-904	2AE6 (IMPALA)	5-Jul-01
MW 16-857	2AJ3 (HARMONY)	3-Jun-03
MW 16-858	2AA3 (K2)	3-Jun-03
MW 16-869	2BC7 (ZEUSB)	3-Jun-03
MW 16-870	2AS5 (FORESHADOW)	3-Jun-03
MW 16-872	2AM7 (VORTITE)	3-Jun-03
MW 16-876	2AV8 (COBALT)	3-Jun-03
MW 16-878	2BB4 (PLOT02CR)	3-Jun-03
MW 16-879	2AW7 (BOHR)	3-Jun-03
MW 16-880	2AK9 (TRANGO)	3-Jun-03
MW 16-882	2AS7 (NOBLE)	3-Jun-03
MW 16-883	2AV1 (JUPITERB)	3-Jun-03
MW 16-884	2AV7 (IMPALA2)	3-Jun-03
MW 16-885	2AU1 (KARMA)	3-Jun-03
MW 17-189	2BK2 (NICAD)	7-Oct-04
MW 17-190	2BD5 (TANGO)	7-Oct-04
MW 17-191	2BB6-0004 (NUCLEUS)	7-Oct-04
MW 17-194	2BA9 (HOOK)	7-Oct-04
MW 17-196	2BB6-0003 (NUCLEUS)	7-Oct-04

SCHEDULE 5.

INTERNET PROPERTY

Internet Property
<u>www.pixeldevices.com</u>