)VER SHEET

FINANCE SECTION

OFFICE OF CASO IN P. 53

OFFICE OF CASO IN P. 53

SPACE

US Patent 5,402,506 Issue Date 03/28/1995

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

- 1. Name of conveying party(ies)
 - Cirrus Logic, Inc.
- 2. Name and address of receiving party(ies):
 - Name:

NVIDIA International, Inc.

Address:

c/o PricewaterhouseCoopers (Corporate Services Ltd)

The Financial Services Center Attention Claudia Clarke

Erin Court

Bishop's Court Hill St. Michael Barbados, WI

3.	Nature of conveyance Assignment
	Execution Date: August 13, 2003
4.	Application Number(s) or Patent Number(s):
	SYSTEM FOR RASTER IMAGING WITH AUTOMATIC CENTERING AND IMAGE COMPRESSION US Patent 5,422,996 Issue Date 06/06/1995
	SYSTEM FOR RASTER IMAGING WITH AUTOMATIC CENTERING AND IMAGE COMPRESSION US Patent 5,293,474 Issue Date 03/08/1994
	ADDRESSING TECHNIQUE FOR TRANSPARENTLY EXTENDING DATA PROCESSING SYSTEM ADDRESS SPACE US Patent 5,032,981 Issue Date 07/16/1991
	METHOD AND APPARATUS FOR PRODUCING PERCEPTION OF HIGH QUALITY GRAYSCALE SHADING ON DIGITALLY COMMANDED DISPLAYS US Patent 5,185,602 Issue Date 02/09/1993
11/12/2003 DBYRNE	SYSTEM FOR RUNNING INCOMPATIBLE GRAPHICS PROGRAMS US Patent 5,412,800 Issue Date 05/02/1995 00000084 5422996
01 FC:8021	APPARATUSATOR QUANTIZING PIXEL INFORMATION TO AN OUTPUT VIDEO DISPLAY

Page -1- of -9-

SHADE GRADATION ENHANCEMENT AND FLICKER REDUCTION ON DISPLAYS PROVIDING MORE THAN TWO NATIVE SHADES

US Patent 5,313,224 Issue Date 05/17/1994

DITHERING PROCESS FOR PRODUCING SHADED IMAGES ON DISPLAY SCREENS

US Patent 5,748,163 Issue Date 05/05/1998

VIDEO PROCESSING APPARATUS, SYSTEMS AND METHODS

US Patent 5,577,203 Issue Date 11/19/1996

VIDEO PROCESSING APPARATUS, SYSTEMS AND METHODS

US Patent 5,581,280 Issue Date 12/03/1996

MANAGING AUDIO DATA USING A GRAPHICS DISPLAY CONTROLLER

US Patent 5,553,220 Issue Date 09/03/1996

IMAGE ROTATION FOR VIDEO DISPLAYS

US Patent 6,208,325 Issue Date 03/27/2001

FLEXIBLE GRAPHICS INTERFACE FOR MULTIPLE DISPLAY MODES

US Patent 5,436,641 Issue Date 07/25/1995

METHOD AND APPARATUS FOR AUTOMATICALLY MAINTAINING A

PREDETERMINEDIMAGE QUALITY IN A DISPLAY SYSTEM

US Patent 6,075,513

Issue Date 06/13/2000

PCMCIA VIDEO CARD

US Patent 5,642,139

Issue Date 06/24/1997

PCMCIA VIDEO CARD

US Patent 6,023,266

Issue Date 02/08/2000

METHOD AND A PPARTUS FOR CORRECTING ERRORS IN PIXEL CHARACTERISTICS WHEN

INTERPOLATING POLYGONS INTO A PIXEL GRID

US Patent 5,625,768

Issue Date 04/29/1997

GRAPHICS ACCELERATOR WITH DUAL MEMORY CONTROLLERS

US Patent 5,664,162

Issue Date 09/02/1997

INTERPOLATION RENDERING OF POLYGONS INTO A PIXEL GRID

US Patent 5,684,941

Issue Date 11/04/1997

MEMORY BANDWIDTH OPTIMIZATION

Page -2- of -9-

US Patent 5,611,041 Issue Date 03/11/1997

SYSTEM AND METHOD FOR DISPLAYING CLOSED CAPTION DATA ON A PC MONITOR US Patent 5,543,850

Issue Date 08/06/1996

APPARATUS, SYSTEMS AND METHODS FOR CONTROLLING GRAPHICS AND VIDEO DATA IN MULTIMEDIA DATA PROCESSING AND DISPLAY SYSTEMS

US Patent 5,598,525

Issue Date 01/28/1997

METHOD AND APPARATUS FOR AUTOMATICALLY MAINTAINING A PREDETERMINED IMAGE QUALITY IN A DISPLAY SYSTEM

US Patent 6,121,949

Issue Date 09/19/2000

PCMCIA VIDEO CONTROLLER WITH DIRECT VIDEO PORT AND SEPARATE AUDIO

CONNECTION

US Patent 5,630,174

Issue Date 05/13/1997

METHOD AND APPARATUS FOR ADAPTIVE DITHERING

US Patent 5,712,657

Issue Date 01/27/1998

METHOD AND APPARATUS FOR MONITORING A ROW ADDRESS STROBE SIGNAL IN A **GRAPHICS CONTROLLER**

US Patent 5,680,591

Issue Date 10/21/1997

PROGRAMMABLE CORE-VOLTAGE SOLUTION FOR A VIDEO CONTROLLER

US Patent 6.078.319

Issue Date 06/20/2000

ANIMATED TEXTURE MAP

US Patent 5.630.043

Issue Date 05/13/1997

TECHNIQUE AND APPARATUS FOR COLOR EXPANSION INTO A NON-ALIGNED 24 BIT RGB COLOR-SPACE FORMAT

US Patent 5,699,498

Issue Date 12/16/1997

POLARITY SYNCHRONIZATION METHOD AND APPARATUS FOR VIDEO SIGNALS IN A

COMPUTER SYSTEM

US Patent 5,859,635

Issue Date 01/12/1999

METHOD AND APPARATUS FOR READING AHEAD DISPLAY DATA INTO A CRT FIFO OF A GRAPHICS CONTROLLER

US Patent 5,657,055

Issue Date 08/12/1997

64 BIT WIDE VIDEO FONT CACHE

US Patent 5,742,298

Issue Date 04/21/1998

Page -3- of -9-

TRANSACTION QUEUE IN A GRAPHICS CONTROLLER CHIP

US Patent 5,748,920 Issue Date 05/05/1998

METHOD AND APPARATUS FOR DETERMINING REPRESENTATIVE CHROMINANCE COMPONENTS

US Patent 5,929,837

Issue Date 07/27/1999

INTEGRATED GRAPHICS PROCESSOR HAVING A BLOCK TRANSFER ENGINE FOR AUTOMATIC GRAPHIC OPERATIONS IN A GRAPHICS SYSTEM

US Patent 6,097,401

Issue Date 08/01/2000

A METHOD AND APPARATUS FOR MINIMIZING EFFECTS OF SLOPE OVERLOAD CONDITION WHEN USING DIFFERENTIAL PULSE CODE MODULATION SCHEME

US Patent 5,850,207 Issue Date 12/15/1998

TILE MEMORY ADDRESSING WITH PROGRAMMABLE TILE DIMENSIONS

US Patent 5,815,168

Issue Date 09/29/1998

METHOD AND APPARATUS FOR OBJECT IDENTIFICATION AND COLLISON DETECTION IN THREE DIMENSIONAL GRAPHICS SPACE

US Patent 5,812,138

Issue Date 09/22/1998

METHOD AND APPARATUS FOR PREFETCHING A NEXT INSTRUCTION USING DISPLAY LIST PROCESSING IN A GRAPHICS PROCESSOR

US Patent 5,917,505

Issue Date 06/29/1999

SOFTWARE TELETEXT DECODER ARCHITECTURE

US Patent 5,835,153 Issue Date 11/10/1998

VIDEO PORT INTERFACE SUPPORTING MULTIPLE DATA FORMATS

US Patent 5,850,266

Issue Date 12/15/1998

DYNAMIC ARBITRATION PRIORITY

US Patent 5,740,383

Issue Date 04/14/1998

METHOD AND APPARATUS FOR OPTIMIZING PIXEL DATA WRITE OPERATIONS TO A TILE-

BASED FRAME BUFFER

US Patent 5,754,191

Issue Date 05/19/1998

PRIORITY METHODS FOR TEXTURE MAP STORAGE

US Patent 6,121,974

Issue Date 09/19/2000

PRIORITY METHODS FOR TEXTURE MAP STORAGE

US Patent 6,326,975

Page -4- of -9-

(Revised 01/96)

Issue Date 12/04/2001

OBJECT REFERENCED MEMORY SEGMENTATION

US Patent 5,798,763

Issue Date 08/25/1998

A METHOD AND APPARATUS FOR EXECUTING A RASTER OPERATION IN A GRAPHICS

CONTROLLER CIRCUIT

US Patent 5,959,637 Issue Date 09/28/1999

EMBEDDING A TRANSPARENCY ENABLE BIT AS PART OF A RESIZING BIT BLOCK RANSFER

OPERATION

US Patent 5,909,219

Issue Date 06/01/1999

SYSTEM AND METHOD OF RENDERING POLYGONS INTO A PIXEL GRID

US Patent 5,936,635

Issue Date 08/10/1999

REQUESTING DEVICE CAPABLE OF CANCELING ITS MEMORY ACCESS REQUESTS UPON DETECTING OTHER SPECIFIC REQUESTING DEVICES SIMULTANEOUSLY ASSERTING

ACCESS REQUESTS US Patent 5,748,968

Issue Date 05/05/1998

METHOD AND APPARATUS FOR DYNAMIC XY TILED TEXTURE CACHING

US Patent 5,828,382

Issue Date 10/27/1998

METHOD AND APPARATUS FOR DYNAMIC XY TILED TEXTURE CACHING

US Patent 6,204,863

Issue Date 03/20/2001

METHOD AND APPARATUS FOR PROVIDING LCD PANEL PROTECTION IN AN LCD DISPLAY

CONTROLLER

US Patent 6,310,599

Issue Date 10/30/2001

A METHOD OF OBTAINING A BUFFER OF CONTIGUOUS MEMORY AND BUILDING A PAGE

TABLE

US Patent 5,987,582

Issue Date 11/16/1999

TEXTURE MAP STORAGE WITH UV REMAPPING

US Patent 5,929,869

Issue Date 07/27/1999

DYNAMIC SWITCHING OF TEXTURE MIP-MAPS BASED ON PIXEL DEPTH

US Patent 5,973,701

Issue Date 10/26/1999

ENHANCED TEXTURE MAP DATA FETCHING CIRCUIT AND METHOD

US Patent 5,831,640

Issue Date 11/03/1998

Page -5- of -9-

(Revised 01/96)

METHOD AND APPARATUS FOR OPTIMING POWER CONSUMPUTION AND MEMORY BANDWIDTH IN A VIDEO CONTROLLER USING SGRAM AND SDRAM POWER REDUCTION MODES

US Patent 5,881,016

Issue Date 03/09/1999

MEMORY MANAGER FOR MULTI-MEDIA APPARATUS AND METHOD THEREFOR US Patent 6,266,753
Issue Date 07/24/2001

METHOD FOR COMPUTING PARAMETERS USED IN A NON-HOMOGENOUS SECOND ORDER PERSPECTIVE TEXTURE MAPPING PROCESS USING INTERPOLATION US Patent 5.841.442

Issue Date 11/24/1998

CIRCUIT FOR DETERMINING NON-HOMOGENOUS SECOND ORDER PERSPECTIVE TEXTURE MAPPING COORDINATES USING LINEAR INTERPOLATION US Patent 6,052,127

Issue Date 04/18/2000

NON-HOMOGENOUS 2ND ORDER PERSPECTIVE TEXTURE MAPPING USING LINEAR INTERPOLATION PARAMETERS

US Patent 5,835,097 Issue Date 11/10/1998

DYNAMICALLY SELECTABLE TEXTURE FILTER FOR COMPUTER GRAPHICS US Patent 6,130,674

Issue Date 10/10/2000

METHOD AND APPARATUS FOR INTERNALLY CACHING THE MINIMUM AND MAXIMUM XY PIXEL ADDRESS VALUES IN A GRAPHICS SUBSYSTEM

US Patent 5,940,090 Issue Date 08/17/1999

METHOD AND SYSTEM FOR FILTERING TEXTURE MAP DATA FOR IMPROVED IMAGE QUALITY IN A GRAPHICS COMPUTER SYSTEM

US Patent 6,184,893 Issue Date 02/06/2001

ARBITRATION FOR SHARED GRAPHICS PROCESSING RESOURCES

US Patent 6,002,409 Issue Date 12/14/1999

METHOD AND APPARATUS FOR AUTOMATICALLY CONTROLLING THE DESTINATION OF A GRAPHICS COMMAND IN A REGISTER FILE

US Patent 5,999,200 Issue Date 12/07/1999

HOST DMA THROUGH SUBSYSTEM XY PROCESSING

US Patent 6,088,046 Issue Date 07/11/2000

A METHOD AND SYSTEM FOR EFFICIENT REGISTER SORTING FOR THREE DIMENSIONAL GRAPHICS

US Patent 5,949,421 Issue Date 09/07/1999

Page -6- of -9-

SPECULAR TEXTURE MAPS IN A GRAPHICS PROCESSOR US Patent 6,259,455

Issue Date 07/10/2001

IDENTIFYING AND LOADING CHIP SPECIFIC PORT MANAGER DRIVERS ON PLUG AND PLAY OPERATING SYSTEMS WHILE MAINTAINING BACKWARD COMPATIBILITY

US Patent 6,032,201

Issue Date 02/29/2000

MIP MAP BLENDING IN A GRAPHICS PROCESSOR

US Patent 6.157.386 Issue Date 12/05/2000

AUTO LEVEL OF DETAIL-BASED MIP MAPPING IN A GRAPHICS PROCESSOR

US Patent 5,986,663

Issue Date 11/16/1999

TRACKING OF GRAPHICS POLYGON DATA FROM DIFFERENT CLOCK DOMAINS IN A

GRAPHICS PROCESSOR

US Patent 6,061,073 Issue Date 05/09/2000

PIXEL DATA X STRIPING IN A GRAPHICS PROCESSOR

US Patent 6,031,550

Issue Date 02/29/2000

NON-SEQUENTIAL FETCH AND STORE OF XY PIXEL DATA IN A GRAPHICS PROCESSOR

US Patent 5,999,199

Issue Date 12/07/1999

CRT TO FPD CONVERSION/PROTECTION APPARATUS AND METHOD

US Patent 6,115,032

Issue Date 09/05/2000

CRT TO FPD CONVERSION/PROTECTION APPARATUS AND METHOD

US Patent 6,219,040

Issue Date 04/17/2001

DYNAMICALLY SELECTABLE MIP MAP BLENDING FOR A SOFTWARE GRAPHICS ENGINE

US Patent 6,292,191

Issue Date 09/18/2001

CHROMA KEYED SPECULAR TEXTURE MAPPING IN A GRAPHICS PROCESSOR

US Patent 6,054,993

Issue Date 04/25/2000

SELECTABLE MODE SMOOTHING TEXTURE FILTER FOR COMPUTER GRAPHICS

US Patent 6,181,347

Issue Date 01/30/2001

ERROR CORRECTION IN A GRAPHICS PROCESSOR

US Patent 6,252,606

Issue Date 06/26/2001

APPARATUS AND METHOD FOR PRODUCING SHADED IMAGES ON DISPLAY SCREENS

US Patent 5,751.265

Issue Date 05/12/1998

Page -7- of -9-

APPARATUS, SYSTEMS AND METHODS FOR PROVIDING MULTIPLE VIDEO DATA STREAMS FROM A SINGLE SOURCE

US Patent 5,455,626 Issue Date 10/03/1995

APPARATUS, SYSTEMS AND METHODS FOR PROVIDING MULTIPLE VIDEO DATA STREAMS FROM A SINGLE SOURCE

US Patent 5,543,842 Issue Date 08/06/1996

APPARATUS, SYSTEMS AND METHODS FOR PROVIDING MULTIPLE VIDEO DATA STREAMS FROM A SINGLE SOURCE

US Patent 5,539,464 Issue Date 07/23/1996

APPARATUS, SYSTEMS AND METHODS FOR PROVIDING MULTIPLE VIDEO DATA STREAMS FROM A SINGLE SOURCE

US Patent 5,539,465 Issue Date 07/23/1996

METHOD AND APPARATUS FOR EXPANDING AND CENTERING VGA TEXT AND GRAPHICS US Patent 5,682,170

Issue Date 10/28/1997

METHOD AND APPARATUS FOR DYNAMICALLY ADJUSTING THE NUMBER OF STAGES OF A MULTIPLE STAGE PIPELINE

US Patent 5,778,250 Issue Date 07/07/1998

SDRAM DIMM PRESENCE DETECT INTERFACE

US Patent 5,862,320 Issue Date 01/19/1999

TILED LINEAR HOST TEXTURE STORAGE

US Patent 5,844,576 Issue Date 12/01/1998

SYSTEM AND METHOD OF SYNCHRONIZING MULTIPLE BUFFERS FOR DISPLAY

US Patent 5,969,728 Issue Date 10/19/1999

DUAL DISPLAY VIDEO CONTROLLER

US Patent 6,215,459 Issue Date 04/10/2001

METHOD AND APPARATUS FOR ASYNCHRONOUS DISPLAY OF GRAPHIC IMAGES

US Patent 6,542,150

Issue Date 04/01/2003

METHOD AND APPARATUS FOR GENERATING HARDWARE ICONS AND CURSORS

US Patent 5,668,571 Issue Date 09/16/1997

METHOD AND APPARATUS FOR ASYNCHRONOUS DISPLAY OF GRAPHIC IMAGES US Application 10/359,734

Filing Date 02/07/03

Page -8- of -9-

METHOD AND SYSTEM FOR PERFORMING ENHANCED LIGHTING FUNCTIONS FOR TEXTURE MAP DATA US Application 09/067,321 Filing Date 04/27/1998

5.	Please send	all corres	pondence con	cerning this	(these)	documents to:

Silicon Valley IP Group, PC P.O. Box 721120 San Jose, CA 95172-1120 Tel. No.: (408) 971-2573

- 6. Total number of applications and patents involved: 97
- 7. Total fee (37 CFR 3.41): \$3,880.00

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8.	To the best of my knowledge and belief, the	foregoing informati	on is true and	correct and any atta	iched copy
	is a true copy of the original document.		1		

Date:

Kevin J. Zilka

Registration No. 41,429

ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

Cirrus Logic, Inc., a Delaware corporation ("ASSIGNOR") has been assigned or otherwise has an ownership interest in certain new and useful improvements as set forth in the patents and patent applications entitled:

Patents

Patent No.	Title	
5,422,996	SYSTEM FOR RASTER IMAGING WITH AUTOMATIC CENTERING AND IMAGE COMPRESSION	
5,293,474	SYSTEM FOR RASTER IMAGING WITH AUTOMATIC CENTERING AND IMAGE COMPRESSION	
5,032,981	ADDRESSING TECHNIQUE FOR TRANSPARENTLY EXTENDING DATA PROCESSING SYSTEM ADDRESS SPACE	
5,185,602	METHOD AND APPARATUS FOR PRODUCING PERCEPTION OF HIGH QUALITY GRAYSCALE SHADING ON DIGITALLY COMMANDED DISPLAYS	
5,412,800	SYSTEM FOR RUNNING INCOMPATIBLE GRAPHICS PROGRAMS	
5,402,506	APPARATUS FOR QUANTIZING PIXEL INFORMATION TO AN OUTPUT VIDEO DISPLAY SPACE	
5,313,224	SHADE GRADATION ENHANCEMENT AND FLICKER REDUCTION ON DISPLAYS PROVIDING MORE THAN TWO NATIVE SHADES	
5,748,163	DITHERING PROCESS FOR PRODUCING SHADED IMAGES ON DISPLAY SCREENS	
5,577,203	VIDEO PROCESSING APPARATUS, SYSTEMS AND METHODS	
5,581,280	VIDEO PROCESSING APPARATUS, SYSTEMS AND METHODS	
5,553,220	MANAGING AUDIO DATA USING A GRAPHICS DISPLAY CONTROLLER	
6,208,325	IMAGE ROTATION FOR VIDEO DISPLAYS	
5,436,641	FLEXIBLE GRAPHICS INTERFACE FOR MULTIPLE DISPLAY MODES	
6,075,513	METHOD AND APPARATUS FOR AUTOMATICALLY MAINTAINING A PREDETERMINEDIMAGE QUALITY IN A DISPLAY SYSTEM	
5,642,139	PCMCIA VIDEO CARD	
6,023,266	PCMCIA VIDEO CARD	

1

5,625,70	METHOD AND APPARTUS FOR CORRECTING ERRORS IN PIXEL CHARACTERISTICS WHEN INTERPOLATING POLYGONS INTO A PIXEL
	GRID
5,664,16	GRAPHICS ACCELERATOR WITH DUAL MEMORY CONTROLLERS
5,684,94	INTERPOLATION RENDERING OF POLYGONS INTO A PIXEL GRID
5,611,04	MEMORY BANDWIDTH OPTIMIZATION
5,543,85	0 SYSTEM AND METHOD FOR DISPLAYING CLOSED CAPTION DATA ON A PC MONITOR
5,598,52	AND VIDEO DATA IN MULTIMEDIA DATA PROCESSING AND DISPLAY SYSTEMS
6,121,94	PREDETERMINED IMAGE QUALITY IN A DISPLAY SYSTEM
5,630,17	PCMCIA VIDEO CONTROLLER WITH DIRECT VIDEO PORT AND SEPARATE AUDIO CONNECTION
5,712,65	METHOD AND APPARATUS FOR ADAPTIVE DITHERING
5,680,59	SIGNAL IN A GRAPHICS CONTROLLER
6,078,315	PROGRAMMABLE CORE-VOLTAGE SOLUTION FOR A VIDEO CONTROLLER
5,630,043	ANIMATED TEXTURE MAP
5,699,498	ALIGNED 24 BIT RGB COLOR-SPACE FORMAT
5,859,635	SIGNALS IN A COMPUTER SYSTEM
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5,742,298	- Constant
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5,815,168	TILE MEMORY ADDRESSING WITH PROGRAMMABLE TILE DIMENSIONS
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5,917,505	USING DISPLAY LIST PROCESSING IN A GRAPHICS PROCESSOR
5,855,153	SOFTWARE TELETEXT DECODER ARCHITECTURE
5,850,266	VIDEO PORT INTERFACE SUPPORTING MULTIPLE DATA FORMATS
5,740,383	DYNAMIC ARBITRATION PRIORITY
5,754,191	METHOD AND APPARATUS FOR OPTIMIZING PIXEL DATA WRITE OPERATIONS TO A TILE-BASED FRAME BUFFER
6,121,974	PRIORITY METHODS FOR TEXTURE MAP STORAGE
6,326,975	PRIORITY METHODS FOR TEXTURE MAP STORAGE
5,798,763	OBJECT REFERENCED MEMORY SEGMENTATION
5,959,637	A METHOD AND APPARATUS FOR EXECUTING A RASTER OPERATION IN A GRAPHICS CONTROLLER CIRCUIT
5,909,219	EMBEDDING A TRANSPARENCY ENABLE BIT AS PART OF A RESIZING BIT BLOCK RANSFER OPERATION
5 ,9 36,635	SYSTEM AND METHOD OF RENDERING POLYGONS INTO A PIXEL GRID
5,748,968	REQUESTING DEVICE CAPABLE OF CANCELING ITS MEMORY ACCESS REQUESTS UPON DETECTING OTHER SPECIFIC REQUESTING DEVICES SIMULTANEOUSLY ASSERTING ACCESS REQUESTS
5,828,382	METHOD AND APPARATUS FOR DYNAMIC XY TILED TEXTURE CACHING
6,204,863	METHOD AND APPARATUS FOR DYNAMIC XY TILED TEXTURE CACHING
6,310,599	METHOD AND APPARATUS FOR PROVIDING LCD PANEL PROTECTION IN AN LCD DISPLAY CONTROLLER
5,987,582	A METHOD OF OBTAINING A BUFFER OF CONTIGUOUS MEMORY AND BUILDING A PAGE TABLE
5,929,869	TEXTURE MAP STORAGE WITH UV REMAPPING
5,973,701	DYNAMIC SWITCHING OF TEXTURE MIP-MAPS BASED ON PIXEL DEPTH
5,831,640	ENHANCED TEXTURE MAP DATA PETCHING CIRCUIT AND METHOD
5,881,016	METHOD AND APPARATUS FOR OPTIMING POWER CONSUMPLITION AND MEMORY BANDWIDTH IN A VIDEO CONTROLLER USING SGRAM AND SDRAM POWER REDUCTION MODES
6,266,753	MEMORY MANAGER FOR MULTI-MEDIA APPARATUS AND METHOD THEREFOR
5,841,442	METHOD FOR COMPUTING PARAMETERS USED IN A NON-HOMOGENOUS SECOND ORDER PERSPECTIVE TEXTURE MAPPING PROCESS USING INTERPOLATION

3

CIRCUIT FOR DETERMINING NON-HOMOGENOUS SECOND ORDER PERSPECTIVE TEXTURE MAPPING COORDINATES USING LINEAR
INTERPOLATION NON-HOMOGENOUS 2ND ORDER PERSPECTIVE TEXTURE MAPPING USING LINEAR INTERPOLATION PARAMETERS
DYNAMICALLY SELECTABLE TEXTURE FILTER FOR COMPUTER GRAPHICS
METHOD AND APPARATUS FOR INTERNALLY CACHING THE MINIMUM
AND MAXIMUM XY PIXEL ADDRESS VALUES IN A GRAPHICS SUBSYSTEM
METHOD AND SYSTEM FOR FILTERING TEXTURE MAP DATA FOR IMPROVED IMAGE QUALITY IN A GRAPHICS COMPUTER SYSTEM
ARBITRATION FOR SHARED GRAPHICS PROCESSING RESOURCES
METHOD AND APPARATUS FOR AUTOMATICALLY CONTROLLING THE DESTINATION OF A GRAPHICS COMMAND IN A REGISTER FILE
HOST DMA THROUGH SUBSYSTEM XY PROCESSING
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MIP MAP BLENDING IN A GRAPHICS PROCESSOR
AUTO LEVEL OF DETAIL-BASED MIP MAPPING IN A GRAPHICS PROCESSOR
TRACKING OF GRAPHICS POLYGON DATA FROM DIFFERENT CLOCK DOMAINS IN A GRAPHICS PROCESSOR
PIXEL DATA X STRIPING IN A GRAPHICS PROCESSOR
NON-SEQUENTIAL FETCH AND STORE OF XY PIXEL DATA IN A GRAPHICS PROCESSOR
CRT TO FPD CONVERSION/PROTECTION APPARATUS AND METHOD
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SELECTABLE MODE SMOOTHING TEXTURE FILTER FOR COMPUTER GRAPHICS
ERROR CORRECTION IN A GRAPHICS PROCESSOR
APPARATUS AND METHOD FOR PRODUCING SHADED IMAGES ON DISPLAY SCREENS

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5,455,626	APPARATUS, SYSTEMS AND METHODS FOR PROVIDING MULTIPLE VIDEO DATA STREAMS FROM A SINGLE SOURCE
5,543,842	APPARATUS, SYSTEMS AND METHODS FOR PROVIDING MULTIPLE VIDEO DATA STREAMS FROM A SINGLE SOURCE
5,539,464	APPARATUS, SYSTEMS AND METHODS FOR PROVIDING MULTIPLE VIDEO DATA STREAMS FROM A SINGLE SOURCE
5,539,465	APPARATUS, SYSTEMS AND METHODS FOR PROVIDING MULTIPLE VIDEO DATA STREAMS FROM A SINGLE SOURCE
5,682,170	METHOD AND APPARATUS FOR EXPANDING AND CENTERING VGA TEXT AND GRAPHICS
5,778,250	METHOD AND APPARATUS FOR DYNAMICALLY ADJUSTING THE NUMBER OF STAGES OF A MULTIPLE STAGE PIPELINE
5,862,320	SDRAM DIMM PRESENCE DETECT INTERFACE
5,844,576	TILED LINEAR HOST TEXTURE STORAGE
5,969,728	SYSTEM AND METHOD OF SYNCHRONIZING MULTIPLE BUFFERS FOR DISPLAY
6,215,459	DUAL DISPLAY VIDEO CONTROLLER
6,542,150	METHOD AND APPARATUS FOR ASYNCHRONOUS DISPLAY OF GRAPHIC IMAGES
5,668,571	METHOD AND APPARATUS FOR GENERATING HARDWARE ICONS AND CURSORS

Patent Applications

Serial No.	Title	Filing Date
10/359,734	METHOD AND APPARATUS FOR ASYNCHRONOUS	
	DISPLAY OF GRAPHIC IMAGES	
09/067,321	METHOD AND SYSTEM FOR PERFORMING	April 27, 1998
	ENHANCED LIGHTING FUNCTIONS FOR TEXTURE	
	MAP DATA	

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby:

- Sells, assigns and transfer to NVIDIA International, Inc., a Cayman Island company.

 (hereinafter referred to as "ASSIGNEE") the entire right, title and interest in the patents and patent applications (including foreign patents) listed herein.
- Authorizes and requests the Commissioner of Patents to issue any and all Letters Patents resulting from said patent application(s), or any division(s), continuations(s), continuation(s)-in-part, re-examination(s) or reissues(s) of said patent applications, thereof to the ASSIGNEE.
- 3) Agrees to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said patents and patent application(s), as well as any derivative applications, thereof, foreign

5

- applications based thereon, and/or the enforcement of patents resulting from such patent applications.
- Agrees that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative(s), and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrants and represents that ASSIGNOR has not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signatures(s).

Cirrus Logic, Inc.

By:

Name: Gregory S. I haveas

Title: Vice President Associate General Course

On this 13th day of August

personally appeared Gregory S. Thomas personally

known to me (or proved to be on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official scal.

Cimanu.

(SEA) Buran

CIMPY T. BUZAN

INTERPRESTATE OF TEM

COMPLETION ELFORS:

MARICH T. 2000

6

TOTAL P.07