In Th

07-22-1998



100771007

TRADEMARK OFFICE

Docket No.: SGI 15-4-591.00

Thereby certify that this transmittal of the below described document is being deposited with the United States Postal Service in an envelope bearing Class Postage and addressed to the U.S. Patent and Trademark Office, Assignment Branch, North Tower Building, Suite 10C35, Washington, D.C., 20 on the below date of deposit.

Name of Person Deposit:

Name of Person Making the Deposit:

TONY CHOU

Signature of the Person Making the Deposit:

The Assistant Commissioner for Patents

Washington, D.C. 20231 Sir:

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

Transmittal of an Assignment

1. Name of conveying Ole Bentz, Carroll Philip Gossett and Mark Goudy party(ies):

Serial No.:

Group Art Unit: 2/98 Examiner:

Filed:

07/07/98

Examine

2. Name and Address of SILICON GRAPHICS, INC.

Receiving party(ies) 2011 N. Shoreline Blvd., Moutain View, CA 94043-1389

3. Nature of Conveyance: Assignment

Execution Date: 07/06/98, 07/01/98, 07/06/98

4. New Patent Application entitled: HASHED DIRECT-MAPPED TEXTURE CACHE

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James P. Hao

Address Wagner, Murabito & Hao

Two North Market Street, Third Floor, San Jose, CA 95113

Phone (408) 938-9060

6. Total Number of applications and patents involved: ONE

7. Fee Calculation (for other than a small entity)

Assignment Recordation Fee, per property

Total Fees (37 CFR 3.41)

1 **X** \$40.00

\$40.00

X The amount of \$ 40.00 is enclosed

- 8. At any time during the pendency of this application, please charge any additional fees required or credit any overpayments to Deposit Account 23-0085. A duplicate copy of this transmittal is enclosed.
- 9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: July 7, 1998

Name James P. Hao Reg. No. 36,398

07/16/1998 WVILLARI 00000053 09111346

03 FC:581

40 00 00

Page 1 of 1

PATENT

rev. 6/97 jpw

REEL: 9315 FRAME: 0823

Docket No.: SGI 15-4-591.00

Assignment to Silicon Graphics, Inc.

Page 1 of 1

ASHED DIRECT-MAPPED TEXTURE CACHE x filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; or Serial No.: filed or and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; Further, I/we have agreed to assign to Silicon Graphics all inventions (except as otherwise limited by law) which relate to Silicon Graphics business and which were first conceived or actually reduced to practice during my/our employment by Silicon Graphics. And for the above consideration, I/we agree promptly upon request of Silicon Graphics, its successors or assigns to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desiribed fully to secure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent right therein, in the United States and in any country foreign thereto, and to cooperate and assist hit provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics; I/we further covenant with Silicon Graphics, its successors, assigns, and legal representatives that no assignment grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; Inventor's Signature: Date:		
do hereby sell, assign and transfer unto Silicon Graphics, Inc. (hereinafter called Silicon Graphics). Deleware Corporation having its principal place of business at 2011 North Shoreline Boulevard. Mountain View, California 94043-1389, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled: X. filled herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; or Serial No.: filled on and the inventions set forth and described therein, and any and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore. Further, I/we have agreed to assign to Silicon Graphics all inventions (except as otherwise limited by law) which relate to Silicon Graphics business and which were first conceived or actually reduced to practice during my/ou employment by Silicon Graphics. And for the above consideration, I/we agree promptly upon request of Silicon Graphics, its successors or assigns to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirably filty bescure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution or interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Paten provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics; Inventor's Signa		eby acknowledged, I/we
filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; or Serial No.: Serial No.: filed on and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; Further, I/we have agreed to assign to Sillcon Graphics all inventions (except as otherwise limited by law) which relate to Sillicon Graphics business and which were first conceived or actually reduced to practice during my/our employment by Sillicon Graphics. It's accessors and which were first conceived or actually reduced to practice during my/our employment by Sillicon Graphics. It's successors and assigns to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution or interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics; I/we further covenant with Silicon Graphics, its successors, assigns, and legal representatives that no assignment grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; In witness whereof, I/we hereunto set my/our hand(s) and seal. Inventor's Signature: Date: Inventor's Signature: Date: Inventor's Signature: Date: Invento	do hereby sell, assign and transfer unto Silicon Graphics, Inc. (hereinafte Corporation having its principal place of business at 2011 North Shoreline 94043-1389, and its successors and assigns, the entire right, title, and	e Boulevard, Mountain View, California interest for the United States and al
United States and of countries foreign thereto which may be granted thereon or therefore; or Serial No.: filed on and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore: Further, I/we have agreed to assign to Silicon Graphics all inventions (except as otherwise limited by law) which relate to Silicon Graphics business and which were first conceived or actually reduced to practice during my/our employment by Silicon Graphics. And for the above consideration, I/we agree promptly upon request of Silicon Graphics, its successors or assigns to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or densessary to secure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent right therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution or interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics; If we further covenant with Silicon Graphics, its successors, assigns, and legal representatives that no assignment grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; In witness whereof, I/we hereunto set my/our hand(s) and seal. Inventor's Signature: Date:	HASHED DIRECT-MAPPED TEXTURE CACHE	
which may be granted thereon or therefore: Further, I/we have agreed to assign to Silicon Graphics all inventions (except as otherwise limited by law) which relate to Silicon Graphics business and which were first conceived or actually reduced to practice during my/our employment by Silicon Graphics. And for the above consideration, I/we agree promptly upon request of Silicon Graphics, its successors or assigns to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution or interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics; I/we further covenant with Silicon Graphics, its successors, assigns, and legal representatives that no assignment grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; In witness whereof, I/we hereunto set my/our hand(s) and seal. Inventor's Signature: Date:		
relate to Silicon Graphics business and which were first conceived or actually reduced to practice during my/our employment by Silicon Graphics; And for the above consideration. I/we agree promptly upon request of Silicon Graphics, its successors or assigns to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution or interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics; I/we further covenant with Silicon Graphics, its successors, assigns, and legal representatives that no assignment grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; In witness whereof, I/we hereunto set my/our hand(s) and seal. Inventor's Signature: Date:	Serial No.: filed on and described therein, and any and all Letters Patent of the United St which may be granted thereon or therefore;	and the inventions set forth tates and of countries foreign thereto
to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution or interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics; I/we further covenant with Silicon Graphics, its successors, assigns, and legal representatives that no assignment grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; In witness whereof, I/we hereunto set my/our hand(s) and seal. Inventor's Signature: Date:		
grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; In witness whereof, I/we hereunto set my/our hand(s) and seal. Inventor's Signature: In	to execute and deliver without further compensation any power of attorn original, continuation, divisional or reissue, or other papers which may be not Silicon Graphics, its successors and assigns, the inventions described in therein, in the United States and in any country foreign thereto, and to coop interference proceedings involving said inventions and in the adjudication of	ney, assignment, application, whether ecessary or desirable fully to secure to a said application and all patent rights perate and assist in the prosecution of the reexamination of said Letters Paten
Inventor's Signature: Date: 7/6/98	grant, mortgage, license, or other agreement affecting the rights and prope	erty herein conveyed has been made to
Inventor's Signature:		
Inventor's Signature:	Inventor's Signature: QoBents-	Date: 7/6/98
Inventor's Signature:		
Inventor's Signature:	Inventor's Signature:	Date:
Inventor's Signature: Inventor's Signature: Inventor's Signature: Date: Date:	Inventor's Signature:	Date:
Inventor's Signature: Inventor's Signature: Date:	Inventor's Signature:	Date:
Inventor's Signature: Date:	Inventor's Signature:	Date:
- лишинининининининининининининининининини	Inventor's Signature:	Date:
Inventor's Signature: Date:	Inventor's Signature:	Date:
	Inventor's Signature:	Date:

PATENT Rev: 11/97 epn

Docket No.: SGI 15-4-591.00

Assignment to Silicon Graphics, Inc.

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we Carroll Philip Gossett do hereby sell, assign and transfer unto Silicon Graphics, Inc. (hereinafter called Silicon Graphics), a Delaware Corporation having its principal place of business at 2011 North Shoreline Boulevard, Mountain View, California 94043-1389, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the		
application for the United States patent enti	itled:	
HASHED DIRECT-MAPPED TEXTURE CAC	HE	
	orth and described therein, and any and all Lett In thereto which may be granted thereon or ther	
Serial No.: filed on and described therein, and any and all which may be granted thereon or there	nand t Letters Patent of the United States and of co efore;	the inventions set forth ountries foreign thereto
	con Graphics all inventions (except as otherwinich were first conceived or actually reduced to	
And for the above consideration, I/we agree promptly upon request of Silicon Graphics, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics;		
I/we further covenant with Silicon Graphics, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;		
In witness whereof, I/we hereunto set my/ou	ur hand(s) and seal.	
Inventor's Signature:	Date:	
Inventor's Signature:	Date: 7	11198
Inventor's Signature:	Date:	
Inventor's Signature:	Date	
Inventor's Signature:	Date	
Inventor's Signature:	Date:	

Page 1 of 1 $\begin{array}{c} \text{PATENT} & \text{Rev: } 11/97 \text{ epn} \\ \text{REEL: } 9315 \text{ FRAME: } 0825 \end{array}$

Docket No.: SGI 15-4-591.00

Assignment to Silicon Graphics, Inc.

Mark Goudy		
do hereby sell, assign and transfer unto Silicon Graphics, Inc. (hereinaft Corporation having its principal place of business at 2011 North Shorelin 94043-1389, and its successors and assigns, the entire right, title, and foreign countries, in and to any and all improvements, including the application for the United States patent entitled:	ne Boulevard, Mountain View, California d interest for the United States and al	
HASHED DIRECT-MAPPED TEXTURE CACHE		
x filed herewith and the inventions set forth and described therein, and United States and of countries foreign thereto which may be granted		
Serial No.: filed on and described therein, and any and all Letters Patent of the United S which may be granted thereon or therefore:	and the inventions set forth States and of countries foreign thereto	
Further, I/we have agreed to assign to Silicon Graphics all inventions (exrelate to Silicon Graphics business and which were first conceived or act employment by Silicon Graphics;		
And for the above consideration, I/we agree promptly upon request of Silicon Graphics, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Silicon Graphics, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Silicon Graphics;		
I/we further covenant with Silicon Graphics, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;		
In witness whereof, I/we hereunto set my/our hand(s) and seal.		
Inventor's Signature:	Date:	
Inventor's Signature:	Date:	
Inventor's Signature:	Date: 114 6 1948	
Inventor's Signature:	Date:	

Page 1 of 1 PATENT Rev: 11/97 epn RECORDED: 07/07/1998 REEL: 9315 FRAME: 0826