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07-23-1999



HEET



I the attached original documents

To the Assistant Commission ___101098923

1. Name of conveying party(ies):

Hugh C. Lauer Larry D. Seiler James M. Knittel Kenneth W. Correll

or copy thereof.

Charidimos E. Gasparakis

Vikram Simha Vishal C. Bhatia

Additional name(s) of conveying party(ies) attached? []Yes [X]No

3. Nature of Conveyance:

[X]Assignment

[]Merger

[]Security Agreement

[]Change of Name

Execution Dates: July 13, 1999

2. Name and address of receiving party(ies):

Name: Mitsubishi Electric Information

Technology Center America, Inc.

Street Address: 201 Broadway

City: Cambridge State: MA Zip: 02139

Additional name(s) and address(es) attached? []Yes [X]No

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

If this document is being filed together with a new application, the execution date of the application is: July 15, 1999

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? []Yes [X]No

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

Name: Mitsubishi Electric Information Technology Center America, Inc.

Street Address: 201 Broadway

City: Cambridge State: MA Zip: 02139

6. Total number of applications and patents involved: [1]

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

[] Enclosed

[X] Authorized to be charged to deposit account

8. Deposit account number: 50-0749

DO NOT USE THIS SPACE

Statement and signature.

1.

To the best of my knowledge and helfef, the foregoing information is true and correct and any attached copy is a true copy of

the original document.

Dirk Brinkman

Name of Person Signing

July 15, 1999

Date

Total number of pages comprising cover sheet:

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ASSIGNMENT

WHEREAS, we, Hugh C. Lauer, Larry D. Seiler, James M. Knittel, Kenneth W. Correll, Charidimos E. Gasparakis, Vikram Simha, and Vishal C. Bhatia, have made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled CONFIGURABLE VOLUME RENDERING PIPELINE, the specification of which:

X	was	executed	by us	on th	ne date	indicat	ed below	;
	was	filed on	as	Appli	.cation	Serial	No;	
	was	patented	under	U.S.	Patent	No	on;	

WHEREAS, Mitsubishi Electric Information Technology Center America, Inc., a corporation of the State of Delaware, whose address is 201 Broadway, Cambridge, Massachusetts 02139, and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title, and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation;

Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

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- 2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;
- 3. Authorize and request the Assistant Commissioner for Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as Assignee of the entire right, title and interest therein or otherwise as Assignee may direct;
- 4. Warrant that we have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;
- Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing any facts of our conceptions, disclosures, and reduction to practice of said inventions or discoveries.

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IN WITNESS WHEREOF:
DATE I SIGNED INVENTOR'S DECLARATION: 13 July 1999
Date: 13 July 1999
Hugh/C./ Lauer (1111/1/Pole)
Witnessed:Printed Name
Printed Name Signature Witnessed: Printed Name Printed Name
Signature
Witnessed: <u>Ker Cher</u> Printed Name
Signature Date 7/13/99
Signature
IN WITNESS WHEREOF:
DATE I SIGNED INVENTOR'S DECLARATION: July 13, 1999
DATE I SIGNED INVENTOR'S DECLARATION: July 13, 1999 Larry D. Seiler Witnessed: Well Hamilton Witnessed: July 13, 1999
Larry D. Sexler
Witnessed: Printed Name
() di (110 50 de) 7/13/99
Signature Date
O Slaa V_0 = V_0
Witnessed: Korzner Printed Name
Jun Jun 1/13/99
Signature Date

IN WITNESS WHEREOF:	,
DATE SIGNED INVENTOR'S DECLARATION:	13/99
James M. Knittel Witnessed: Jell Houlied	7/13/99
Printed Name	
Signature Julied	7/13/99 Date
Witnessed: Steven ferther	
Printed Name Signature	7/13/99 Date
,	
IN WITNESS WHEREOF:	<i>i</i>
DATE I SIGNED INVENTOR'S DECLARATION:	7/13/99
DATE I SIGNED INVENTOR'S DECLARATION:	7/13/99
DATE I SIGNED INVENTOR'S DECLARATION:	
Date: Kenneth W. Correll Witnessed: WWW FICHING WITNESSED	
DATE I SIGNED INVENTOR'S DECLARATION: Kenneth W. Correll Date: Witnessed: White Witnessed: White Witnessed: Witnessed: Warren Warren	7/13/59
Date: Kenneth W. Correll Witnessed: Printed Name Signature Vacantal Vacantal Signature Vacantal Vacantal Vacantal Vacantal Vacantal Vacantal	7/13/59

IN WITNESS WHEREOF:
DATE I SIGNED INVENTOR'S DECLARATION: 7 (17/97
Charitaimos E. Gasparakis Date: 7/17/99
Witnessed Cokin T. MUGH
Witnessed: Cokin T. Millity Printed Name
Later T. Murcy 7/13/99
Date
Witnessed: Brutely J School - Printed Name
Signature Comments 7/13/97
Signature V V
IN WITNESS WHEREOF:
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DATE I SIGNED INVENTOR'S DECLARATION: 07/13/99 Wikram Simha Witnessed: ILW HULWAD Printed Name Signature Date: 07/13/99 Date: 07/13/99
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DATE I SIGNED INVENTOR'S DECLARATION: 07/13/99 Wikram Simha Witnessed: Date: 07/13/99 Witnessed: Date: 07/13/99 Witnessed: Date: 07/13/99 Witnessed: Steven Kerzner

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IN WITNESS WHEREOF:	Bhat's 2/13/1999
DATE I SIGNED INVENTOR'S DECLARATION:	OFISITI
1 hate	Date: 07/13/1999
Vishal C. Bhatia	4
Witnessed: Went HSUCIO	<u>CO</u> O
frene di cue	redo 7/13/99
Signature	Date
Witnessed: Printed Name	<u>~</u>
Stru Thyan	7/13/99
Signature	Date ' ' '