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	LoRM PTO 1595 (Rev. 6.93) OMB Na 9651-0011 (exp. 794) M&CG: MS141560-1-40062, 900501		101332306		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
	To the Commissioner of Parints and Irademarks. Please record the attached original documents or J. Name of convey ng party(ies): $D = \frac{1}{2} C \delta_{T}$				
	Ying C Heung	∑ing Xu ∙Yeung Shum	ATENTE TIME	Microsoft Corporation One Microsoft Way Redmond, WA 98052	
	Additional name(s) of conveying party(tes) attached? 🔲 Yes 🖾 No Additional name(s) & address(es) attached?				17 🗆 Yes 🔯 No
	3. Nature of conveyance:       X     Assignment     Image: Merger       Security Agreement     Change of Name       Other:				
	Execution Date: February 3, 2000				
	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:				
	A. Patent A	pplication No (s)		B. Patent No.(s)	
	S. N. 09/482,28 MS141560.1/40062.29US01				
	Additional numbers attached? Yes 23 No 5. Name and addre is cf party to whom correspondence concerning 6. Total number of applications and patents involved:				
	document s Name: Address:	hould be mailed: Homer L. Knearl Merchant & Gould P.C. P.O. Hox 2903 Minneapelis, MN 55402-		7. Total fee (37 CFR 3.41):	\$40.00
				Enclosed Authorized to be	charged to deposit account
			0903 8. Please charge overpayments	<ol> <li>Please charge any addition overpayments to our Deport</li> </ol>	nal fees or credit any osit account number 13-2725
	DO NOT USE THIS SPACE				
	9. Statement and s gnature:				
	To the best of $\mathbf{n} \neq knowledge$ and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.				
	Homer I., K	nearl	Homes	I theart	April 12, 2000
	Name of Pe	rson Signing		ignature	Date uding cover sheet, attachments, and document
	Do not detach this portion				
	Mail docu	ments to be recorded with required	Commissioner of Pate Box Assig	nments	
	document Patent and	den repor ing for this sample cove and gathering he data needed, and Trademark O fice. Office of infor Project (1651-0011), Washington	d completing and reviewing the same rmation systems, PK2-1000C, Wash	30 minutes per document to be recorded le cover sheet. Send comments regarding ington, D.C. 20231, and to the Office of	I, including time for reviewing the ng this burden estimate to the U.S Management and Budget, Paperwork
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					PATENT 711 FRAME: 0340

## ASSIGNMENT



WHEREAS, we, Ying-Qing Xu, and Heung-Yeung Shum, (hereinafter referred to as ASSIGN:DRS), having post office addresses of No. 402, Building 19 (Campus), Beijing University of Science and Technology, Beijing, 100083, CHINA, and 419, Beijing Riviera, 1 Xiangjiang Belu, ChaoYang District, Beijing, 100015, CHINA, respectively, are the joint inventors of an invention entitled "BLOCK-BASED SYNTHESIS OF TEXTURE IN COMPUTER RENDERED IMAGES." as described and claimed in the specification forming part of an application for United States letters patent as filed on January 13, 2000, and assigned Serial No. 09/482,285;

V.HEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of AS SIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed I: y ASSIGNEE and its successors and assigns for their use and benefit and of their successor's and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters

PATENT REEL: 010711 FRAME: 0341 patent on said invention, for litigation regarding said letters patent, or for the purpose of

protecting title to said invention or letters patent therefor.

IN TESTIMONY WHEREOF, I have hereunto set my hand this  $\frac{210}{210}$  day of February,

2000.

When your You

STATE OF WASHINGTON ) )ss: COUNTY OF  $k \mapsto k$ 

Cn this 2 day of February, 2000, before me personally appeared Ying-Qing Xu, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set for the uses and purposes



Delliphic (sigg2--

IN TESTIMONY WHEREOF, I have hereunto set my hand this 2nd day of February,

2000.

Heung-Yeung Shum

STATE : OF WASHINGTON ) )ss: COUNTY OF <u>Kin(1</u>)

Cin this  $2rx^2$  day of February, 2000, before me personally appeared Heung-Yeung Shum, to me known and known to me to be the person described in and who executed the foregoin; is strument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.



Xumue Course

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**RECORDED: 04/12/2000** 

PATENT REEL: 010711 FRAME: 0342