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U.S. DEPARTMENT OF COMMERCE

1-31-92 Patent and Trademark Office Attorney Docket No.: MICR0195 RECORDATION FORM COVER SHEET PATENTS ONLY To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy thereof. Name of conveying party(ies): 13/20/0/ 1. 2. Name and address of receiving party(ies): **Microsoft Corporation** Name: Bruno C. Silva Address: One Microsoft Way Redmond, WA 98052 Additional name(s) of conveying party(ies) attached? ☐Yes ☒No Additional name(s) and address(es) attached? Yes No 3. Nature of conveyance: ■ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other_ Execution Date(s):_ March 14, 2001 Application number(s) or Patent number(s) 4. Patent Application Number(s): 07 A. Patent Number(s): Additional numbers attached? ☐ Yes ☒ No If this document is being filed together with a new application, the execution date of the application is: March 14, 2001 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved? 1 concerning document should be mailed: 7. Total fee (37 C.F.R. § 3.41):..... \$ 40 Ronald M. Anderson, Esq. 8. The fee of \$40 is included in check No. _5010 Law Offices of Ronald M. Anderson 600 - 108th Avenue N.E., Suite 507 enclosed. The Commissioner is authorized to charge any fees that Bellevue, WA 98004 may be required or credit any overpayment to Deposit Account (425) 688-8816 No. 01-1940. DO NOT USE THIS SPACE 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. Ronald M. Anderson Name of Attorney or Agent Registration No. 28,829 **EXPRESS MAIL CERTIFICATE** 8 "Express Mail" mailing label number: EL728800813US Date of Deposit: March 20, 2001 I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under \$ 1.10 on the date indicated above and is addressed to the Commissioner of Potents and Trademarks. Workington B.C. 2000. 37 C.F.R. § 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231. Kathy L. Paulino (Signature of person mailing paper or fee) (Typed or printed name of person mailing paper or fee)

OMB No. 0651-0011 (exp. 4/94)

03/23/2001 UABRHAM

PATENT REEL: 011817 FRAME: 0645

ASSIGNMENT

Attorney Docket No: MICR0195

MS#90079.1

WHEREAS, I, Bruno C. Silva, residing at 2632 168th Place N.E., Bellevue, WA 98008; (hereinafter ASSIGNOR); am the sole inventor of an invention entitled "MORPH MAP BASED REAL-TIME RENDERING," as described and claimed in the specification forming part of an application for United States letters patent,

Bruno C. Silva having executed a Declaration for the application on the Harry day of Marca, 2001;

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington, having a place of business at One Microsoft Way, Redmond, Washington 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, ASSIGNOR hereby sells, assigns and transfers 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 ASSIGNEE 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 by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

Executed at PEC)MON (city),	Washington,	this 474 day	of MAR	<u>Cq</u> , 2001.
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		Bruno/C	C. Silva		•
STATE OF WASHINGTON)) SS.				
COUNTY OF KING)				
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On this | day of | word | 2001, Bruno C. Silva personally appeared before me, to me known or proven to be the individual named above who executed the within and foregoing instrument, and acknowledged that the individual signed the same as a free and voluntary act and deed, for the uses and purposes therein mentioned.

(SEAL)

Typed or Printed Name of Notary Public
Notary Public in and for the State of Washington

Residing at

My commission expires

Page 1 of 1

RECORDED: 03/20/2001