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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Director of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of Conveying Party(ies): Jonathan C. Hardwick Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		2. Name and address of receiving party(ies): Name: Microsoft Corporation Internal Address: Street Address: One Microsoft Way City Redmond State WA ZIP 98052 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: 8/9/2000			
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: <u> </u> ME0 9-25-00			
A. Patent Application No.(s) 09/108,111		B. Patent No.(s)	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Robert F. Scotti Klarquist Sparkman Campbell Leigh & Winston, LLP Internal Address: One World Trade Center, Suite 1600 Street Address: 121 S.W. Salmon Street Portland, Oregon 97204-2988		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 C.F.R. § 3.41): \$40.00 Enclosed 8. <input checked="" type="checkbox"/> Any deficiency/overpayment is authorized to be charged to deposit account 02-4550	
DO NOT USE THIS SPACE			
9. Statement and signature. <i>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.</i> Robert F. Scotti  09/20/00 Name of Person Signing Signature Date Total number of pages including cover sheet, attachments and document:			
OMB No. 0651-0011 (exp. 4/94)			

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PATENT
REEL: 011145 FRAME: 0370

ASSIGNMENT

WHEREAS, I, Jonathan C. Hardwick (hereinafter referred to as ASSIGNOR), having post office address of 8 Springfield Terrace, Cambridge, DF, CB4 1AE, England, am the inventor of an invention entitled PARALLEL PROCESSING METHOD AND SYSTEM USING A LAZY PARALLEL DATA TYPE TO REDUCE INTER-PROCESSOR COMMUNICATION, as described and claimed in U.S. Patent Application No. 09/108,111, filed on June 30, 1998;

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, 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, 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 authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on

ASSIGNMENT - PAGE 1 OF 2

said invention to ASSIGNEE. ASSIGNOR agrees 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 the place and date opposite my signature below.



Jonathan C. Hardwick

At MSR Ltd, Cambridge, UK

on this 8 day of September, 2000

I certify that I know or have satisfactory evidence that Jonathan C. Hardwick is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

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Witness Printed Name



Witness Signature