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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Surajit Chaudhuri Vivek Narasayya</p>	<p>2. Name and address of receiving party(ies):</p> <p>Microsoft Corporation One Microsoft Way Redmond, Washington 98052</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other:</p> <p>Execution Date: <u>August 21, 1998</u></p>	<p>Express Mail Label No. <u>E040481045US</u></p> <p>I hereby certify that this paper is being deposited with the U.S. Postal Service as Express Mail addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231</p> <p>on <u>8/25/98</u></p> <p>by <u>Wren Hyslop</u></p>

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: August 21, 1998

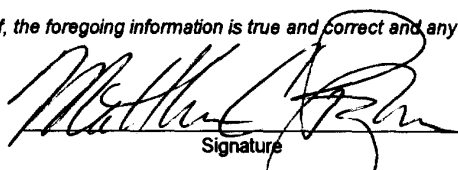
A. Patent Application No(s):	B. Patent No(s):
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Matthew C. Fagan WATTS, HOFFMANN, FISHER & HEINKE CO., L.P.A. P.O. Box 99839 Cleveland, Ohio 44199-0839</p>	<p>6. Total number of applications and patents involved: <u>1</u></p>
	<p>7. Total fee (37 C.F.R. §§ 1.21(h), 3.41): <u>\$ 40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed.</p> <p><input type="checkbox"/> Authorized to be charged to deposit account.</p> <p><input checked="" type="checkbox"/> The Commissioner is hereby authorized to credit any overpayment or to charge any fee deficiencies under 37 C.F.R. § 1.21(h) to our deposit account.</p> <p>8. Deposit account number: <u>23-0630</u></p>

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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.

<p><u>Matthew C. Fagan, Reg. No. 37,542</u> Name of Person Signing</p>	 <p>Signature</p>	<p><u>August 25, 1998</u> Date</p>
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Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks
BOX ASSIGNMENTS
Washington, D.C. 20231

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ASSIGNMENT

WHEREAS, we, Surajit Chaudhuri, Rajeev Motwani, and Vivek Narasayya (hereinafter referred to as ASSIGNORS), having post office addresses of 16548 N.E. 35th Court, Apt. PP204, Redmond, Washington 98052; 251 Stanford Avenue, Palo Alto, California 94306; and 16239 NE 13th Place, #E-311, Bellevue, Washington 98008, respectively, are the joint inventors of an invention entitled "HISTOGRAM CONSTRUCTION USING ADAPTIVE RANDOM SAMPLING WITH CROSS-VALIDATION FOR DATABASE SYSTEMS," as described and claimed in the specification forming part of an application for United States letters patent executed herewith;

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;

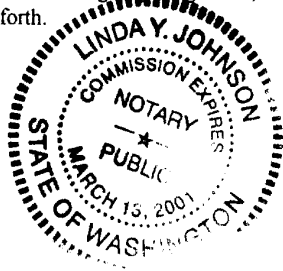
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted 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 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 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 on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

State of Washington)
) SS
County of King)

Surajit Chaudhuri
Surajit Chaudhuri

This 21st day of August, 1998, before me personally came the above-named Surajit Chaudhuri to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.



Linda Y. Johnson
Notary Public

State of California)
) SS
County of _____)

Rajeev Motwani

This ____ day of _____, 1998, before me personally came the above-named Rajeev Motwani to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

Notary Public

State of Washington)
) SS
County of King)

M.R. Nives
Vivek Narasayya

This 21st day of August, 1998, before me personally came the above-named Vivek Narasayya to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.



Linda Y. Johnson
Notary Public