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**FORM PTO-1595** 

08-29-2001

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U.S. DEPARTMENT OF COMMERCE **Patent and Trademark Office** 

(Modified) 14-816C1 - 4254 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy thereof. Name and address of receiving party (185) Name of conveying party(ies): Usama Fayyad and Jayavel Shanmugasundaram Microsoft Corporation One Microsoft Way Redmond, WA 98052 AUG 24 2001 3. Nature of conveyance: hereby certify that this paper is being deposite X Assignment Merger the U.S. Postal Service as 1st Class Mail addressed to the Commissioner of Patents and Security Agreement Change of Name rademarks, Washington, D.C. 20231 on 8/23/6 Other: Execution Date: January 19, 2001 and August 8, 2001, respectively 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: Patent No(s).: Patent Application No(s).: 09/606.964 6. Total number of applications and patents involved: \_1\_ Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 C.F.R. §§ 1.21(h), 3.41): \$40.00 Stephen J. Schultz WATTS, HOFFMANN, FISHER & HEINKE CO., L.P.A. X Enclosed. 1100 Superior Ave., Ste. 1750 Cleveland, Ohio 44114 Authorized to be charged to deposit account. X 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. 8. Deposit account number: 23-0630 DO NOT USE THIS SPACE 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. Stephen Schultz August 22, 2001 Stephen J. Schultz, Reg. No. 29,108 Name of Person Signing Total number of pages including cover sheet, attachments, and document: 4 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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PATENT REEL: 012104 FRAME: 0782

## **ASSIGNMENT**

WHEREAS, we, <u>Usama Fayyad</u> and <u>Jayavel Shanmugasundaram</u> (hereinafter referred to as ASSIGNORS), having post office addresses of <u>9705 SE 43<sup>rd</sup> Street</u>, <u>Mercer Island</u>, <u>Washington 98040</u> and <u>7147 Via Maria</u>, <u>San Jose</u>, <u>CA 95139</u>, respectively, are the joint inventors of an invention entitled "<u>MULTI-DIMENSIONAL DATABASE RECORD</u> <u>COMPRESSION UTILIZING OPTIMIZED CLUSTER MODELS</u>," as described and claimed in the specification forming part of an application for United States letters patent filed June 29, 2000 as application serial number 09/606,964;

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.

Inventor's Signature

Date

1/19/2001

Usama Fayyad

Inventor's Printed Name

State of Washington)

County of

This day of \_\_\_\_\_\_\_, 2001, before me personally came the above-named Usama Fayyad to me personally known as the individual who executed the foregoing as gament, and the above-named Usama Fayyad to me personally known as the individual who executed the same of his own free will for the purposes therein set forth.

Notary Public

PATENT REEL: 012104 FRAME: 0783

## ASSIGNMENT

WHEREAS, we, <u>Usama Fayyad</u> and <u>Jayavel Shanmugasundaram</u> (hereinafter referred to as ASSIGNORS), having post office addresses of <u>9705 SE 43<sup>rd</sup> Street</u>, <u>Mercer Island</u>, <u>Washington 98040</u> and <u>7147 Via Maria</u>, <u>San Jose</u>, <u>California 95139</u>, respectively, are the joint inventors of an invention entitled "<u>MULTI-DIMENSIONAL DATABASE RECORD</u> <u>COMPRESSION UTILIZING OPTIMIZED CLUSTER MODELS</u>," as described and claimed in the specification forming part of an application for United States letters patent filed June 29, 2000 as application serial number 09/606,964;

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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.

Inventor's Signature

JAYAVEL SHANMUGASUNJARAM

PATENT REEL: 012104 FRAME: 0784

## **ALL-PURPOSE ACKNOWLEDGEMENT**

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State of California	} ss.
County of Santa Clara	)
On August 8, 2001 before me.	Errol O. Smedley .
personally appeared Taxavel Show	(MOTARY)
On August 8, 2001 before me. Errol C. Smedley personally appeared Tayavel Sharmugasundaram signers	
personally known to me - OR -	proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signatures(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
ERROL O. SMEDLEY Comm. # 1304907 NOTARY PUBLIC - CALIFORNIA Santa Clara County My Comm. Expires May 18, 2005	WITNESS my hand and official seal.  SCHARY'S SIGNATURE
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