

08-19-1999

8/10/99



Attorney Docket No. 19683-3.00

FORM PTO-1595  
(Rev. 6-93)

101122709

U.S. Department of Commerce  
Patent and Trademark Office

To the Honorable Asst. Commissioner for Patents. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):  
  
William N. Eatherton and Zubin Dittia  
  
Additional name(s) of conveying parties attached?  Yes  
 No.

2. Name and address of receiving party(ies)  
  
Name: Washington University  
  
Internal Address: Campus Box 8013  
  
Street Address: Campus Box 8013  
  
City: St. Louis State: Missouri Zip: 63110

U.S. PTO  
09/371907  
08/10/99

3. Nature of conveyance:  
  
 Assignment  Merger  
  
 Security Agreement  Change of Name  
  
 Other:  
  
Execution Date: June 7, 1999

Additional names and addresses attached?  Yes  No

4. Application Number(s) or Patent Numbers.  
  
If this document is being filed together with a new application, the execution date of the application is: June 7, 1999  
  
A. Patent Application No(s): Patent No(s):  
  
09/371907 Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
  
Name:  
  
Kenneth R. Allen  
TOWNSEND AND TOWNSEND AND CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
(650) 326-2400

6. Total number of applications and patents involved 1  
  
7. Total fee (37 CFR 3.41): -----\$40.00  
  
 Enclosed  Charge Fees to Deposit Account  
  
 Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account.  
  
8. Deposit account number: 20-1430

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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.*  
  
Kenneth R. Allen \_\_\_\_\_ Kenneth R. Allen 8/10/99  
Name of Person Signing Signature Date  
  
Atty Reg. No. 27,301 Total number of pages including cover sheet, attachments and document 3

10. Change Correspondence Address to that of Part 5?  Yes  No

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

Do not detach this portion  
Mail documents to be recorded with required cover to:  
  
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Washington, D.C. 20231

08/18/1999 DCOATES 00000110 201430 09371907  
01 FC:581 40.00 CH

**ASSIGNMENT OF PATENT APPLICATION**

JOINT

WHEREAS, William N. Eatherton, of 219 North Murphy, Sunnyvale, California, 94086, and Zubin Dittia, of 1063 Morse Avenue, Apt. 2-303, Sunnyvale, California, 94089, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: DATA STRUCTURE USING A TREE BITMAP AND METHOD FOR RAPID CLASSIFICATION OF DATA IN A DATABASE

Date(s) of execution of Declaration: June 7, 1999 (TBD)

Filing Date: (TBD)

Application No.: (TBD)

and

WHEREAS, Washington University, Campus Box 8013, St. Louis, Missouri, 63110, (a non-profit corporation of the State of Missouri), hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 6/14/99

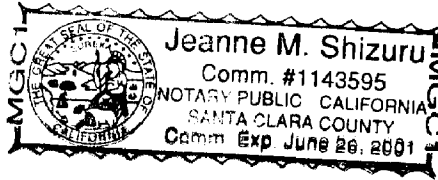
William N. Eatherton  
William N. Eatherton

STATE OF CALIFORNIA )  
                                  )     ss.  
COUNTY OF Santa Clara )

On June 14, 1999, before me, Jeanne M. Shizuru, Notary Public, personally appeared William N. Eatherton, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Jeanne M. Shizuru  
NOTARY PUBLIC



My Commission Expires: June 26, 2001

Dated: 6/14/99

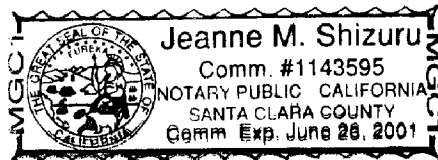
Zubin Dittia  
Zubin Dittia

STATE OF CALIFORNIA )  
                                  )     ss.  
COUNTY OF Santa Clara )

On June 14, 1999, before me, Jeanne M. Shizuru, Notary Public, personally appeared Zubin Dittia, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Jeanne M. Shizuru  
NOTARY PUBLIC



My Commission Expires: June 26, 2001