Docket No.: 00280745AA 10-07-2003 FORM PTO 1595 (Modified) EET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office OMB No. 0651-0027 (exp.5/31/2002) P08/REV03 102568607 Tab settings → → To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof. Name of conveying party(ies): 2. Name and address of receiving party(ies): Chai Wah WU **Yixin DIAO** Name: International Business Machines Corporation Internal Address: Additional names(s) of conveying party(ies) ☐ Yes ☒ No 3. Nature of conveyance: Assignment ☐ Merger Street Address: Security Agreement Change of Name City: Armonk State: NY ZIP: 10504 Other Execution Date: 9/19/03; 9/19/03 4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: 9/19/03, respectively B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached? ☐ Yes ⊠ No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: C. Lamont Whitham 7. Total fee (37 CFR 3.41):....\$ 40.00 Internal Address: ☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account 0/06/2003 GTON11 00000150 500510 10669722 1 FC:8021 40.00 DA Authorized to be charged to deposit account 8. Deposit account number: Street Address: Whitham, Curtis & Christofferson, PC 50-0510 (IBM-Yorktown) 11491 Sunset Hills Road - #340 ZIP: 20190 State: VA City: Reston (Attach duplicate copy of this page if paying by deposit account) 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.

C. Lamont Whitham-Reg. No. 22,424

Name of Person Signing

Signature

Sept. 25, 2003

Total number of pages including cover sheet, attachments, and document:

Date

IBM Docket:

YOR920030349US1

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ASSIGNMENT

Whereas, We Inventors

(1) Chai Wah Wu County of Dutchess City of Poughquag and State of New York

(2) Yixin Diao County of Westchester

City of White Plains and State of New York

have invented certain improvements in

Title

OPTIMIZATION WITH UNKNOWN OBJECTIVE FUNCTION

and have executed, respectively, a United States patent application therefor on

Dates That Inventor Signed the

(1) (2) 2003, and

2003

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I the above named hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) City

Date

Signed at York town Heights, New York

on 9-19-2003____

First Name

(Chai

Wah

Middle Initial

Wu

signature) inventor

Last Name

PATENT

REEL: 014552 FRAME: 0079

IBM Docket: YOR920030349US1

> signature) inventor

Page 2 of 2

(2) City

Date

Signed at Yorktown Heights-NY on 9/19/2003

Diao

First Name Middle Initial Last Name

> **PATENT REEL: 014552 FRAME: 0080**

RECORDED: 09/25/2003