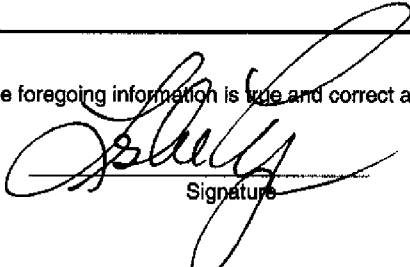


FORM PTO-1595  
1-31-92U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
Docket No. ROC920050121US1RECORDATION FORM COVER SHEET  
PATENTS ONLY

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

<b>1. Name of conveying party(ies):</b> Sherman Matthew Dance Andrew Patrick Freemyer Matthew Ray Tubbs  Additional names of conveying party(ies) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<b>2. Name and address of receiving party(ies):</b>  Name: <u>International Business Machines Corporation</u>  Internal Address:    Street Address: <u>New Orchard Road</u> City <u>Armonk</u> State <u>New York</u> Zip <u>10504</u>  Additional name(s) & address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<b>3. Nature of Conveyance</b>  <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: November 11, 2005	<b>4. Application number(s) or patent number(s):</b> <b>TITLE: RECIPROCAL ESTIMATE COMPUTATION METHODS AND APPARATUS</b> If this document is being filed together with a new application, the execution date of the application is _____.  A. Patent Application No(s).   B. Patent No(s).  Serial No. 11/282,032 Docket No. ROC920050121US1  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Name and address of party to whom correspondence concerning document should be mailed:  Leslie J. Payne, Attorney IBM Corporation - Dept. 917 3605 Highway 52 North Rochester, MN 55901-7829	<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total fee (37 CFR 3.41):</b> <u>\$40.00</u>  <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input checked="" type="checkbox"/> Total fee due <input checked="" type="checkbox"/> Any deficiencies in the enclosed fees  <b>8. Deposit account number:</b> <u>09-0465</u>
<b>DO NOT USE THIS SPACE</b>	
<b>9. Statement and signature</b>  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.  <u>Leslie J. Payne, Reg. No. 26,378</u> Name of Person Signing   Signature  <u>December 6, 2005</u> Date  Total number of pages comprising cover sheet: <u>1</u>	

CH \$40.00 090465 11282032

Docket No. ROC920050121US1

**ASSIGNMENT**

Whereas, we

- |     |  |   |
|-----|--|---|
| (1) | Sherman Matthew Dance<br>County of Olmsted   | City of Rochester<br>and State of Minnesota,  |
| (2) | Andrew Patrick Freemyer<br>County of Olmsted | City of Rochester,<br>and State of Minnesota, |
| (3) | Matthew Ray Tubbs<br>County of Olmsted       | City of Rochester,<br>and State of Minnesota, |


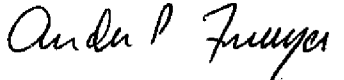

have invented certain improvements in

**RECIPROCAL ESTIMATE COMPUTATION METHODS AND APPARATUS**

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

Dates Inventors

Signed

Declaration (1)  Nov 11, 2005 (2)  Nov 11, 2005  
 (3)  Nov 11, 2005

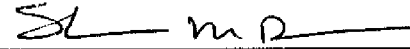
And whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents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

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we 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 we 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 we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Docket No. ROC920050121US1


**Signed**

Inventor  
(1) at Rochester, Minnesota  
on Nov 11, 2005,

  
(Sherman M. Dance )  
First Name Initial Last Name

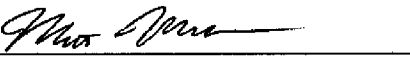
Inventor  
Signature

Inventor  
(2) at Rochester, Minnesota  
on Nov 11, 2005,

  
(Andrew P. Freemyer)  
First Name Initial Last Name

Inventor  
Signature

Inventor  
(3) at Rochester, Minnesota  
on Nov 11, 2005,

  
(Matthew R. Tubbs )  
First Name Initial Last Name

Inventor  
Signature