U.S. PTO 11/702986 02/06/2007 U.S. DEPARTMENT OF COMMERCE

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| 1. Name of conveying party(ies) | 2. Name and address of receiving party(ies) | | | |
| Todd Komlenic, David Householder and Thomas Tharp | Name: The PNC Financial Services Group, Inc. | | | |
| | Internal Address: | | | |
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| Additional name(s) of conveying party(les) attached? Yes Mo 3. Nature of conveyance/Execution Date(s): | Street Address: 249 Fifth Avenue | | | |
| Execution Date(s) 02/05/07, 02/02/07 & 02/02/07 | | | | |
| ✓ Assignment Merger | | | | |
| Security Agreement Change of Name | City: Pitsburgh | | | |
| Joint Research Agreement | State: PA | | | |
| Government Interest Assignment | Country: USA Zip: 15222 | | | |
| Executive Order 9424, Confirmatory License | Zip. 10222 | | | |
| Other | Additional name(s) & address(es) attached? ☐ Yes ✓ No | | | |
| | document is being filed together with a new application. | | | |
| A. Patent Application No.(s) | B. Patent No.(s) | | | |
| 11/702986 | | | | |
| | | | | |
| Additional numbers attached? Yes No | | | | |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 1 | | | |
| Name: Christopher G. Wolfe, Esq. | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 | | | |
| Internal Address: Kirkpatrick & Lockhart Preston Gates | Authorized to be charged by credit card | | | |
| Ellis LLP | Authorized to be charged to deposit account | | | |
| Street Address: Henry W. Oliver Building | ✓ Enclosed | | | |
| 535 Smithfield Street | None required (government interest not affecting title) | | | |
| City: Pittsburgh | 8. Payment Information | | | |
| State: PA Zip: 15222-2312 | a. Credit Card Last 4 Numbers Expiration Date | | | |
| | | | | |
| Phone Number: (412) 355-6798 | | | | |
| Phone Number: <u>(412) 355-6798</u> Fax Number: <u>(412) 355-6501</u> | b. Deposit Account Number 11-1110 | | | |
| | | | | |
| Fax Number: (412) 355-6501 | b. Deposit Account Number 11-1110 Authorized User Name Christopher G. Wolfe | | | |
| Fax Number: (412) 355-6501 Email Address: christopher.wolfe@klgates.com | b. Deposit Account Number 11-1110 Authorized User Name Christopher G. Wolfe | | | |
| Fax Number: (412) 355-6501 Email Address: christopher.wolfe@klgates.com 9. Signature: | b. Deposit Account Number 11-1110 Authorized User Name Christopher G. Wolfer February 6, 2008 | | | |

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PATENT

REEL: 018969 FRAME: 0722

Attorney's Docket No. 050619-1

PATENT

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| | For: U.S. and/or A Foreign Rights For: U.S. Application or U.S. Provisional Application For: U.S. Patent For: PCT Application By: Multiple Inventore |
| ASSIGNMENT OF IN | VENTION (MULTIPLE INVENTORS) |
| in consideration of the payment by ASSIG receipt of which is hereby acknowledged, and | SNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the for other good and valuable consideration, |
| ASSIGNORS (Inventors): | |
| Todd Komienic (type or print name of inventors) | 369 Lincoln Avenue Begver, PA 15009 USA Address Nationality |
| David Householder | 131 Deer Lane Beaver Falls, PA 15010 USA |
| Thomas Tharp | 3044 Broadway Avenue Pittsburgh, PA 15234 USA |
| hereby sells, assigns and transfers to | |
| ASSIGNEE: | |
| The PNC Financial Services Group, inc., (type or print name of ASSIGNEE) | 249 Fifth Avenue Address |
| (a Pennsylvania corporation) | Pittsburgh, PA 15222 |
| and the successors, assigns and legal represe | antatives of the ASSIGNEE |
| ★ It is a proper to the second interest to the second inter | |
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IMPROVED NETWORK MANAGEMENT

(Assignment of Invention-Multiple Inventors [16-3.2]-page 1)

PI-1717664 v1 0237710-0157

PATENT REEL: 018969 FRAME: 0723 and which is found in U.S. patent application executed on even date herewith

and any legal equivalent thereof in a foreign country, including the right to claim priority both in the United States and in all foreign countries and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, non-provisional, or substitute thereof, and as to letters patent any release or re-examination thereof.

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| IN WITNESS WHEREOF, We have | e hereunto set hand and seal this | |
|-----------------------------|---------------------------------------|------------------|
| | - 196ch | Date of signific |
| Todd Komlenic | | 2 5 10 |
| (type name of Inventor) | Signature of INVENTOR | Date Date |
| David Householder | | LII - 2/2/07 |
| (type name of inventor) | Signature of INVENTOR | Date |
| Thomas Tharo | Momen Mu | 6-02-07 |
| (type name of inventor) | Signature of INVENTOR | Date |
| ☐ Note | arization or Legalization Page Added. | |

(Assignment of Invention-Multiple Inventors [16-3.2]-page 2)

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