501842089 03/05/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| Taussif KHAN | 03/05/2012 |
| Robert FALKENTHAL | 03/05/2012 |

RECEIVING PARTY DATA

| Name: | Cellco Partnership d/b/a Verizon Wireless | |
|-----------------|---|--|
| Street Address: | One Verizon Way, | |
| City: | Basking Ridge | |
| State/Country: | NEW JERSEY | |
| Postal Code: | 07920-1097 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13412351 |

CORRESPONDENCE DATA

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 (202)756-8087

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| ATTORNEY DOCKET NUMBER: | 20110847 (050108-0556) |
|-------------------------|------------------------|
| NAME OF SUBMITTER: | Keith E. George |

Total Attachments: 2

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PATENT REEL: 027807 FRAME: 0912 H \$40.00 1341235

| Docket No.: 20110847 (050108-0556) PATENTS ONLY To the Director of the U. S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of Conveying Party(ies) Taussif KHAN, Robert FALKENTHAL Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of Conveyance/Execution Date(s) Execution Date(s): March 5, 2012 Assignment Merger Merger Merger Basking Ridge, NJ 07920-1097 Security Agreement Change of Name Joint Research Agreement Executive Order 9424, Confirmatory License A. Application or patent number(s): A. Patent Application No(s). S. Name and address to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: 600 13th Street, N.W. Enclosed None required (government interest not affecting title) D. C. Phone Number: 202.756.8000 S. Patent No(s) S. Patent Information: Payment Informa | RECORDATION FORM | 1 COVER SHEET | |
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| Address: One Verizon Way, Basking Ridge, NJ 07920-1097 Assignment | | Internal Address: | |
| Execution Date(s): March 5, 2012 Assignment | Additional name(s) of conveying party(ies) attached? Yes No | | |
| Assignment | 3. Nature of Conveyance/Execution Date(s) | Address: One Verizon Way, | |
| Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License 4. Application or patent number(s): A. Patent Application No(s). Mane: MCDERMOTT WILL & EMERY LLP Internal Address: 600 13th Street, N.W. Enclosed Name: MCDERMOTT, Street Address: 600 13th Street, N.W. City: Washington, State: DC Zip: 20005-3096 D.C. Phone Number: 202.756.8000 Fax Number: 202.756.8007 Email Address: mweipdocket@mwe.com Signature. Expiration Date Deposit Account Number 500417 Authorized User Name March 5, 2012 March 5, 2012 | Execution Date(s): March 5, 2012 | Basking Ridge, NJ 07920-1097 | |
| Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License 4. Application or patent number(s): | Assignment Merger | | |
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| ## Executive Order 9424, Confirmatory License 4. Application or patent number(s): A. Patent Application No(s). Solution Patent Application No(s). | ☐ Joint Research Agreement | | |
| A. Application or patent number(s): A. Patent Application No(s). 5. Name and address to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. City: Washington, State: DC Zip: 20005-3096 D.C. Phone Number: 202.756.8000 Fax Number: 202.756.8087 Email Address: mweipdocket@mwe.com Signature. Keith E. George 34,111 Athorized Last 4 Numbers 1004 10 | Government Interest Assignment | | |
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| Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: City: Washington, State: DC Zip: 20005-3096 D.C. Phone Number: 202.756.8000 Fax Number: 202.756.8087 Email Address: mweipdocket@mwe.com Signature. Keith E. George 34,111 Fath F. Jan P. March 5, 2012 | | | |
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| Keith E. George 34,111 March 5, 2012 | 9. Signature. | - 1 | |
| | Keith E. George 34,111 Keith 5. 2000 March 5, 2012 | | |
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| Total number of pages including cover sheet, attachments and documents: 2 | | | |

PATENT REEL: 027807 FRAME: 0913

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

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| which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number, filed) the filing date and application number of said application when known. | | |
| which was filed on and | assigned Application No. | |
| and in and to said application, and all divisional, con reissue, provisional, and all other applications for Lette United States and all foreign countries on any of said in application; and in and to all original and reissued pater States and foreign countries from any of said application the filing of any of said applications; and in and to Convention for the Protection of Industrial Property to a | provements or based on or claiming priority to said ats which have been or shall be issued in the United and in and to all rights of priority resulting from all rights which may exist under the International | |
| II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and | | |
| III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned. | | |
| IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below: | | |
| Verizon entity (Assignee): Cellco Partnership d/b/a Verizon Way, Basking Ridge, NJ 07920-1097. | Vireless, having a place of business at One Verizon | |
| ASSIGNORS: | | |
| Signature: | Date: 3-5-20/2 | |
| Signature: Rosel French | Date: 3 - 5 - 101V | |
| Signature: | Date: | |
| Signature: | Date: | |
| | | |

RECORDED: 03/05/2012

PATENT REEL: 027807 FRAME: 0914