504151887 12/22/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4198560

| SUBMISSION TYPE: | | CORRECTIVE ASSIGNMENT | CORRECTIVE ASSIGNMENT | | | |
|---|-----------|--|---|--|--|--|
| NATURE OF CONVEY | ANCE: | | Corrective Assignment to correct the ASSIGNEE previously recorded on Reel 035064 Frame 0543. Assignor(s) hereby confirms the CORRECTIVE | | | |
| CONVEYING PARTY | DATA | | | | | |
| | | Name | Execution Date | | | |
| MING-JU HO | | | 08/29/2005 | | | |
| ALI JABBARY | | | 08/24/2005 | | | |
| STALIN ALBANES | | | 08/29/2005 | | | |
| RECEIVING PARTY D | ΑΤΑ | | | | | |
| Name: | CINGL | JLAR WIRELESS II, LLC | | | | |
| Street Address: | 5565 0 | BLENRIDGE CONNECTOR | | | | |
| City: | ATLAN | ITA | | | | |
| State/Country: | GEOR | GIA | | | | |
| Postal Code: | 30342 | | | | | |
| Application Number: 1463 | | 14634058 | | | | |
| Application Number: | | 14634058 | | | | |
| CORRESPONDENCE Fax Number: | DATA | (216)696-8731 | | | | |
| | be sent t | o the e-mail address first; if that is u | nsuccessful, it will be sent | | | |
| - | | d; if that is unsuccessful, it will be se | · · · · · · · · · · · · · · · · · · · | | | |
| Phone: | | 2166968730 | | | | |
| Email: | | epas@thepatentattorneys.com AT&T LEGAL DEPARTMENT - T&W | | | | |
| Correspondent Name Address Line 1: | • | ONE AT&T WAY | | | | |
| Address Line 1: | | ROOM 2A-207 | | | | |
| Address Line 4: | | BEDMINSTER, NEW JERSEY 07921 | | | | |
| ATTORNEY DOCKET | | C040064000CON1/CINGP119U | C040064000CON1/CINGP119US | | | |
| | | | THOMAS E. WATSON | | | |
| NAME OF SUBMITTER | : | THOMAS E. WATSON | | | | |
| | : | /Thomas E. Watson/ | | | | |
| NAME OF SUBMITTER SIGNATURE: DATE SIGNED: | : | | | | | |

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | |
|---|---|-----------------------------|--|--|--|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | |
| CONVEYING PARTY DATA | | | | | | |
| | Name Execution Date | | | | | |
| MING-JU HO | | 08/29/2005 | | | | |
| ALI JABBARY | | 08/24/2005 | | | | |
| STALIN ALBANES | | 08/29/2005 | | | | |
| RECEIVING PARTY DATA | | | | | | |
| Name: AT&T MOBIL | TY II LLC 🛛 < | CINGULAR WIRELESS II, LLC | | | | |
| Street Address: 1025 LENOX | PARK BOULEVA | RD 5565 GLENRIDGE CONNECTOR | | | | |
| City: ATLANTA | ATLANTA | | | | | |
| State/Country: GEORGIA | | | | | | |
| Postal Code: 30319 | de: 30319 30342 | | | | | |
| PROPERTY NUMBERS Total: 1 | PROPERTY NUMBERS Total: 1 | | | | | |
| Property Type | | Number | | | | |
| Application Number: 1 | 634058 | 4058 | | | | |
| CORRESPONDENCE DATA | | | | | | |
| | (216)696-8731 | | | | | |
| | 2166968730 EPAS@thepatentattorneys.com | | | | | |
| Email: EPAS@thepatentattorneys.com Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if | | | | | | |
| provided; if that is unsuccessful, it will be sent via US Mail. Correspondent Name: AT&T LEGAL DEPARTMENT - T&W | | | | | | |
| • | • | | | | | |
| | | | | | | |
| Address Line 4: BEDMINSTER, NEW JERSEY 07921 | | | | | | |
| ATTORNEY DOCKET NUMBER: | C04006400 | C040064000CON1/CINGP119US | | | | |
| | | | | | | |

| NAME OF SUBMITTER: | THOMAS E. WATSON | | | | |
|--|------------------|--|--|--|--|
| Signature: /Thomas E. Watson/ | | | | | |
| Date: 03/02/2015 | | | | | |
| Total Attachments: 4 source=C04_0064_000_Con_1_Assignments#page1.tif source=C04_0064_000_Con_1_Assignments#page2.tif source=C04_0064_000_Con_1_Assignments#page3.tif source=C04_0064_000_Con_1_Assignments#page4.tif | | | | | |
| RECEIPT INFORMATION | | | | | |
| EPAS ID: PAT32463 Receipt Date: 03/02/201 | | | | | |

C04-0064-000

ASSIGNMENT OF INVENTION TO CINGULAR WIRELESS II, LLC

WHEREAS, Ming-Ju Ho of Alpharetta, Georgia, Ali Jabbary of Roswell, Georgia, and Stalin Albanes of Atlanta, Georgia (hereinafter sometimes referred to as "said inventor"), has invented certain new and useful improvements in **ESTIMATING MOBILE LOCAL PROPAGATION ENVIRONMENT CHARACTERISTICS FOR WIRELESS COMMUNICATIONS**, which invention (hereinafter sometimes referred to as "said invention") has been disclosed to and filed, under Docket No. C04-0064-000, in the patent files of Cingular Wireless II, LLC, a Delaware Corporation having a principal place of business at 5565 Glenridge Connector, Atlanta, Georgia 30342.

NOW THEREFORE, it is agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said inventor has sold, assigned and transferred and by these present do sell, assign and transfer unto Cingular Wireless II, LLC the entire right, title and interest in said invention in the United States of America and all foreign countries and in and to said U.S. provisional patent application and all patent applications, divisions, substitutions, continuations and continuations-in-part thereof, and in all United States Letters Patents which may be granted thereon and all reissues and extensions thereof, and in all priority rights under the International Convention for the Protection of Industrial Property for every member country, and in all applications for patents (including related rights such as utilitymodel registrations, inventor's certificates, and the like) heretofore or hereafter filed for said invention in any foreign countries, and in all patents (including all extensions, renewals and reissues thereof) granted for said invention; said applications and patents to be held and enjoyed by the said Cingular Wireless II, LLC for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same may be granted, as fully and entirely as the same would have been held by said inventors had this assignment and sale not been made.

FURTHER, said inventors hereby agree to sign all lawful papers necessary or helpful in obtaining patents on said invention or in filing any divisional, continuation, substitution, or reissue patent application or re-examination proceedings on said invention whether in the United States of America or in any foreign country.

C04-0064-000 Assignment of Invention To Cingular Wireless II, LLC

8/29/05

Signed:

Date:

MING-JU HO

| CERTIFICATE | COF ACKNO | WLE | DGMENT | | |
|---|------------------|----------|------------------|----------------|--------|
| State of borgen | | | | | |
| County of Aulton | | | | | |
| On August 29,2005 before me, | | | | | |
| , . · · · · · · · · · · · · · · · · · · | Name and Title o | f Office | r (e.g., "Jane E | oe, Notary Pul | blic") |
| | | | | | |

personally appeared <u>MING-JU HO</u> Name(s) of Signer(s)

> _ 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 executed the same in his authorized capacity, and that by his 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.

Notary Public Public County (Georgia blic My Commission Expires March 16, 2008

Page 2 of 4

| | C04-0064-000 Assignment of Invent | ION |
|-----------------------|---|---|
| | To Cingular Wireless II, I | LLC |
| | | |
| Signed: | Date: | |
| | 5/24/03 | _ |
| ALIJAHIAN | | <u>></u> |
| - | CERTIFICATE OF ACKNOWI | LEDGMENT |
| State of | 2 gla | _ |
| State of County of | ton | _ |
| On August 24, | 2005 before me, <u>Linda S.</u> Name and Title of Of | Giles, Noterry Pakilic Ticer (c.g., "Jane Doe, Notary Public") |
| | | |

personally appeared <u>ALI JABBARY</u> Name(s) of Signer(s)

> _ 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 executed the same in his authorized capacity, and that by his 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.

Signature of Notary Public Notary Public, Cobb County, Georgia My Commission Expires March 16, 2008

Page 3 of 4

C04-0064-000 Assignment of Invention To Cingular Wireless II, LLC

Signed:

Date:

8/29/05

STALIN ALÉANES

CERTIFICATE OF ACKNOWLEDGMENT

| State | of <u>the</u> | · L- effer - et_ | | | | | | | |
|-------|-----------------|------------------|------------|-------------|----------|-----------|---------------|------------|----------|
| Cour | nty of <u>A</u> | lten | | | | | | | |
| On_ | august | 29,2005 | before me, | Linda | 5.6 | sile€, | Notar | y Pab | lic, |
| | .1 | ł | | Name and Ti | tle of O | fficer (e | .g., "Jane De | õe, Notary | Public") |

personally appeared <u>STALIN ALBANES</u> Name(s) of Signer(s)

> _ 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 executed the same in his authorized capacity, and that by his 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.

Signature of Notary Public

Notary Public, Cobb County, Georgia My Commission Expires March 16, 2008

Page 4 of 4

PATENT REEL: 041178 FRAME: 0055

RECORDED: 12/22/2016