502891229 07/15/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2937826

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| ALEXEI ASHIKHMIN | 07/11/2014 |
| THOMAS L. MARZETTA | 07/11/2014 |

RECEIVING PARTY DATA

| Name: | ALCATEL-LUCENT USA INC. | |
|-----------------|-------------------------|--|
| Street Address: | 600-700 MOUNTAIN AVENUE | |
| City: | MURRAY HILL | |
| State/Country: | NEW JERSEY | |
| Postal Code: | 07974-0636 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14331247 |

CORRESPONDENCE DATA

Fax Number: (215)557-8477

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.

Phone: 215-557-6656

Email: gerrym@mendelip.com **Correspondent Name:** STEVE MENDELSOHN

Address Line 1: MENDELSOHN, DRUCKER, & DUNLEAVY, P.C. Address Line 2: 1500 JOHN F. KENNEDY BLVD., SUITE 312 Address Line 4: PHILADELPHIA, PENNSYLVANIA 19102

| ATTORNEY DOCKET NUMBER: | 816377-US-NP | |
|-------------------------|--------------------|--|
| NAME OF SUBMITTER: | STEVE MENDELSOHN | |
| SIGNATURE: | /Steve Mendelsohn/ | |
| DATE SIGNED: | 07/15/2014 | |

Total Attachments: 3

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PATENT 502891229 REEL: 033309 FRAME: 0901

ASSIGNMENT AND AGREEMENT

For value received, I, Alexei Ashikhmin, of Morristown, New Jersey, and Thomas L. Marzetta, of Summit, New Jersey hereby sell, assign and transfer to Alcatel-Lucent USA Inc., a corporation of Delaware, having an office at 600-700 Mountain Avenue, Murray Hill, New Jersey, 07974-0636, United States of America, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of in and to certain inventions related WIRELESS to America. OF INTER-CELL WITH SUPPRESSION COMMUNICATION INTERFERENCE IN LARGE-SCALE ANTENNA SYSTEMS described in an application for Letters Patent of the United States, executed by me of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and I also concurrently hereby sell, assign and transfer to Alcatel-Lucent USA Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I authorize Alcatel-Lucent USA Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Alcatel-Lucent USA Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to Alcatel-Lucent USA Inc. in the United States and in all countries foreign to the United States, or to such nominees as Alcatel-Lucent USA Inc. may designate.

990.0798

PATENT REEL: 033309 FRAME: 0902 I agree that, when requested, I shall, without charge to Alcatel-Lucent USA Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Alexed Ashikhmin

Date: 07/11/2014

United States of America)

State of New Sersey) ss.

County of Union

Notary Public

SUZANNER SABO Commission # 2362058 Notary Public, State of New Jersey My Commission Expires July 12, 2017 3

Thomas L. Marzetta

United States of America)

State of New Sersey) ss .:

County of Oxion

me personally came Thomas L. Marzetta known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

SUZANNE R SABO Commission # 2362056 Notary Public, State of New Jersey My Commission Expires July 12, 2017

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