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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | | NEW ASSIGNMENT | NEW ASSIGNMENT | |
|---|------------------------------------|---|---|--|
| NATURE OF CONVEYANCE: | | ASSIGNMENT | | |
| CONVEYING PARTY | ΟΑΤΑ | | | |
| | | Name | Execution Date | |
| PETER J. WINZER | | | 08/22/2016 | |
| ALAN H. GNAUCK | | | 08/22/2016 | |
| RECEIVING PARTY D | ΑΤΑ | | | |
| Name: | Alcatel | Alcatel-Lucent USA Inc. | | |
| Street Address: | 600-70 | 600-700 Mountain Avenue | | |
| City: | Murray | 1urray Hill | | |
| State/Country: | NEW J | NEW JERSEY | | |
| Postal Code: | 07974- | 07974-0636 | | |
| PROPERTY NUMBER Property Type | | Number | | |
| Application Number: | | 15241650 | | |
| CORRESPONDENCE | | | | |
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| Fax Number: Correspondence will | be sent to f provideo | . , | | |
| Fax Number: <i>Correspondence will</i> <i>using a fax number, i</i> t | be sent to f provideo | o the e-mail address first; if that is d; if that is unsuccessful, it will be | sent via US Mail. | |
| Fax Number: <i>Correspondence will using a fax number, in</i> Phone: Email: Correspondent Name | be sent to f provideo : | <i>the e-mail address first; if that is t; if that is unsuccessful, it will be</i> 215-557-6656 amy@mendelip.com, ipsnarocp@no STEVE MENDELSOHN | sent via US Mail. | |
| Fax Number: <i>Correspondence will</i> <i>using a fax number, in</i> Phone: Email: Correspondent Name Address Line 1: | be sent to f provideo : | <i>b the e-mail address first; if that is</i> <i>c if that is unsuccessful, it will be</i> 215-557-6656 amy@mendelip.com, ipsnarocp@no STEVE MENDELSOHN MENDELSOHN DUNLEAVY, P.C. | <i>sent via US Mail.</i> kia.com | |
| Fax Number: <i>Correspondence will using a fax number, in</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: | be sent to f provideo : | <i>the e-mail address first; if that is if that is unsuccessful, it will be</i> 215-557-6656 amy@mendelip.com, ipsnarocp@no STEVE MENDELSOHN MENDELSOHN DUNLEAVY, P.C. 1500 JOHN F. KENNEDY BLVD., SU | <i>sent via US Mail.</i> kia.com UITE 312 | |
| Fax Number: <i>Correspondence will using a fax number, in</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: | be sent to f provideo : | <i>b the e-mail address first; if that is</i> <i>c if that is unsuccessful, it will be</i> 215-557-6656 amy@mendelip.com, ipsnarocp@no STEVE MENDELSOHN MENDELSOHN DUNLEAVY, P.C. | <i>sent via US Mail.</i> kia.com UITE 312 | |
| Fax Number: <i>Correspondence will</i> <i>using a fax number, in</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: | be sent to f provideo : | <i>the e-mail address first; if that is if that is unsuccessful, it will be</i> 215-557-6656 amy@mendelip.com, ipsnarocp@no STEVE MENDELSOHN MENDELSOHN DUNLEAVY, P.C. 1500 JOHN F. KENNEDY BLVD., SU | <i>sent via US Mail.</i> kia.com UITE 312 | |
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| Fax Number: <i>Correspondence will</i> <i>using a fax number, in</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: | be sent to f provideo : : | b the e-mail address first; if that is d; if that is unsuccessful, it will be 215-557-6656 amy@mendelip.com, ipsnarocp@no STEVE MENDELSOHN MENDELSOHN DUNLEAVY, P.C. 1500 JOHN F. KENNEDY BLVD., SU PHILADELPHIA, PENNSYLVANIA 1 819406-US-NP | <i>sent via US Mail.</i> kia.com UITE 312 | |

ASSIGNMENT AND AGREEMENT

For value received, I, Peter J. Winzer, of Aberdeen, New Jersey, Alan H. Gnauck, of Middletown, 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 America, in and to certain inventions related to EFFICIENT PUMPING OF AN ARRAY OF OPTICAL AMPLIFIERS described in an application for Letters Patent of the United States, Serial No. 15/241,650, filed 19 August 2016, 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. 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.

Peter J. Winzer

23,20% Date

United States of America)

State of Die Lever) ss .:

County of HONHOUTH)

On this 20^{12} day of 4000, 20%, before me personally came **Peter J.** Winzer known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

ġł. A Ju

Notary Public

FAIRICIA A TIER Notery Public, State of New Jersey My Commission Expires August 28, 2017

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PATENT REEL: 039781 FRAME: 0683

A. Gnauch

Alan H. Gnauck

Date: August 22,201 6

United States of America)

State of Lew Jersey) ss .: County of HON HON HON

On this 22^{nd} day of 420t, 20/6, before me personally came **Alan H. Gnauck** known to me to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

PATRICIA A TIER Notary Public, State of New Jersby My Commission Expires August 28, 2017

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