PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2844959

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------------|----------------|
| ALCATEL LUCENT CANADA, INC. | 06/06/2013 |

RECEIVING PARTY DATA

| Name: | ALCATEL LUCENT |
|-----------------|-------------------------|
| Street Address: | 3, AVENUE OCTAVE GREARD |
| City: | PARIS |
| State/Country: | FRANCE |
| Postal Code: | 75007 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14271532 |

CORRESPONDENCE DATA

Fax Number: (703)519-9802

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 703-519-9801

Email: mail@krameramado.com

Correspondent Name: TERRY W. KRAMER, ESQ. KRAMER & AMADO, P.

Address Line 1: 330 JOHN CARLYLE STREET

Address Line 2: 3RD FLOOR

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | ALC 3810-CON |
|-------------------------|---------------|
| NAME OF SUBMITTER: | MIKI HINTON |
| SIGNATURE: | /MIKI HINTON/ |
| DATE SIGNED: | 05/07/2014 |

Total Attachments: 4

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PATENT 502798363 REEL: 032837 FRAME: 0867

| 1 | RECORDATION FORM COVER SHEET | | | | |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------|--|--|--|--|
| | PATENTS ONLY | | | | |
| | se record the attached documents or the new address(es) below. | | | | |
| 1. Name of conveying party(ies) | 2. Name and address of receiving party(ies) | | | | |
| Alcatel-Lucent Canada, Inc. | Name: Alcatel-Lucent | | | | |
| Alcater-Eucent Canada, mc. | Internal Address: | | | | |
| Additional name(s) of conveying party(les) attached? Yes X No | \ | | | | |
| 3. Nature of conveyance/Execution Date(s): | Street Address: 3, avenue Octave Greard | | | | |
| Execution Date(s)06/06/2013 | | | | | |
| Assignment Merger | | | | | |
| Security Agreement Change of Name | City: Paris | | | | |
| Joint Research Agreement | State: | | | | |
| Government Interest Assignment | | | | | |
| Executive Order 9424, Confirmatory License | Country: <u>France</u> Zip: <u>75007</u> | | | | |
| Other | Additional name(s) & address(es) attached? Yes No | | | | |
| 4. Application or patent number(s): | document is being filed together with a new application. | | | | |
| A. Patent Application No.(s) | B. Patent No.(s) | | | | |
| | | | | | |
| Additional numbers att | I tached? ☐ Yes ☒ No | | | | |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 1 | | | | |
| Name: Kramer & Amado P.C. | | | | | |
| Internal Address: | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ ₀ | | | | |
| Internal Address. | | | | | |
| | Authorized to be charged to deposit account | | | | |
| Street Address: 330 John Carlyle Street, 3rd Floor | Enclosed None required (government interest act offersion title) | | | | |
| | None required (government interest not affecting title) | | | | |
| City: Alexandria | 8. Payment Information | | | | |
| State: VA Zip: 22314 | | | | | |
| Phone Number: 703 519 9801 | D | | | | |
| Fax Number:_703519 9802 | Deposit Account Number <u>500578</u> | | | | |
| Email Address: mail@krameramado.com | Authorized User Name Terry W. Kramer | | | | |
| 9. Signature: /Terry W. Kramer/ | 2014-05-07 | | | | |
| Signature | 2014-03-07 Date | | | | |
| Terry W. Kramer | Total number of pages including cover | | | | |
| Name of Person Signing | sheet, attachments, and documents: | | | | |

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, **Alcatel-Lucent Canada Inc.**, a corporation established and existing under the laws of Canada and having its principal place of business at 600 March Road, Kanata, Ontario, Canada K2K 2E6, ("Assignor") does hereby sell, assign, transfer and convey, subject to any existing rights, licenses and/or obligations of or to third parties, unto **Alcatel Lucent**, a corporation established and existing under the laws of France and having its principal place of business at 3, avenue Octave Gréard, 75007 PARIS, France ("Assignee"), all of Assignor's right, title and interest, for all countries, jurisdictions and political entities of the world, in and to any and all of the following (collectively, "Rights"):

- (a) The invention or inventions (collectively, "Inventions") identified in APPENDIX A and all the Intellectual Property rights and privileges under any and all forms of protection, including those enumerated below;
- (b) The patent application(s) filed with respect to said Inventions, as identified in **APPENDIX A**, and Patent applications or other applications that may be filed for protection including, without limitation, applications for certificates of invention, utility models, industrial design protection, design patent protection, and provisional patent applications wherever filed, with respect to the Inventions, (collectively, "Applications") including all rights to file and prosecute such Applications directly in the name of Assignee;
- (c) All patents including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, that may be granted, registered, or issued with respect to the Inventions or the Applications (collectively, "Patents") including, but not limited to, any already granted patents identified in **APPENDIX A**;
- (d) All patents and patent applications for which any of these Applications or Patents directly or indirectly form a basis for priority;
- (e) All reissues, requests for continuing examinations, re-examinations, extensions, continuations, continuations in part, continuing prosecution applications, divisions, or registrations of, any item in any of the any of the foregoing categories (b), (c) or (d);
- (f) The right to claim priority rights deriving or arising from any of the foregoing categories (b), (c), (d) or (e) and for Assignee to otherwise avail itself of the provisions of the international conventions governing the protection of inventions;

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- (g) All causes of action and enforcement rights related to any of the foregoing categories (a), (b), (c), (d) or (e) (including, without limitation, the right to sue and to pursue damages, injunctive relief, or other remedies for past, present, or future infringement, misappropriation, or violation of rights related thereto);
- (h) All rights to license and to collect royalties and other payments under or on account of any of the foregoing categories (a), (b), (c), (d) or (e); and
- (i) Any and all other rights and interests arising out of, in connection with, or in relation to any of the foregoing categories (a), (b), (c), (d) or (e),

with respect to which, and to the extent to which, Assignor had or has acquired the right to so sell, assign, convey, transfer and deliver.

Assignor requests the respective patent office or governmental agency in each jurisdiction to grant or issue any and all letters patents, certificates of invention, utility models or other governmental or inter-governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the Assignee to the Assignor's entire interest therein.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors or assigns, and anyone properly designated by them and will be binding upon Assignor, its successors or assigns, and anyone properly designated by them.

IN WITNESS WHEREOF, each of the Parties has caused this Assignment to be executed by its duly authorized representatives on the respective dates entered below.

| ASSIGNOR: | ASSIGNEE: |
|-----------------------------------------|----------------------------------------------------|
| Alcatel-Lucent Canada Inc. | Alcatel Lucent |
| By: Regory Benoit | By: Muga J. Murgia |
| Title: Senior IP Counsel & Cluster Lead | Title: Senior Director, Americas Patent Creation & |
| Date: 0, 2013 | Senior IP Corporate Counsel |
| | Date: 11 June 2013 |

APPENDIX A

| Our Case Ref | US Serial No. | WO Serial No. |
|--------------|---------------|-------------------|
| 811282-US-NP | 13/470833 | PCT/CA2013/050340 |
| 811321-US-NP | 13/482728 | NA |
| 811427-US-NP | 13/483567 | NA. |
| 811757-US-NP | 13/475236 | NA NA |
| 811857-US-NP | 13/483150 | PCT/CA2013/050325 |
| 811877-US-NP | 13/482109 | PCT/CA2013/050373 |
| 811883-US-NP | 13/482690 | PCT/CA2013/050409 |
| 811904-US-NP | 13/482597 | PCT/CA2013/050407 |

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