503704033 02/23/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHIN HORNG WONG	11/04/2015
SEAU SIAN LIM	02/03/2016
DAVID BHATOOLAUL	02/11/2016

RECEIVING PARTY DATA

Name:	ALCATEL LUCENT TELECOM LTD.
Street Address:	CHRISTCHURCH WAY, GREENWICH
City:	LONDON
State/Country:	GREAT BRITAIN
Postal Code:	SE10 OAG

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	14690444		

CORRESPONDENCE DATA

Fax Number: (703)668-8200

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.

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ATTORNEY DOCKET NUMBER:	29250-002796-US
NAME OF SUBMITTER:	ANDREW M. WAXMAN
SIGNATURE:	/Andrew M. Waxman/
DATE SIGNED:	02/23/2016

Total Attachments: 6

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PATENT 503704033 REEL: 037792 FRAME: 0975

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PATENT REEL: 037792 FRAME: 0976

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

RANDOM ACCESS RESPONSE POSITION INDICATION FOR COVERAGE ENHANCED LOW COMPLEXITY MACHINE TYPE COMMUNICATION

for wh patent	ich Ass	ignor is	about to make or has made United States or International application for
	(a)		executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
	(b)		executed on,; or
	(c)	\boxtimes	was filed on April 19, 2015, and assigned Serial No. 14/690,444;

WHEREAS, ALCATEL LUCENT TELECOM LTD., with address at Christchurch Way, Greenwich, London, Great Britain SE10 OAG, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW. THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights:

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable

PATENT

Page 1 of 2

in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Sunlan
Shin Horng WONG
4 Nov 2015
Dated
Seau Sian LIM
Dated
David BHATOOLAUL
Dated

Page 2 of 2

PATENT **REEL: 037792 FRAME: 0978**

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

RANDOM ACCESS RESPONSE POSITION INDICATION FOR COVERAGE ENHANCED LOW COMPLEXITY MACHINE TYPE COMMUNICATION

for who		signor is	s about to make or has made United States or International application for
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	(b)		executed on,; or
	(c)	\boxtimes	was filed on April 19, 2015, and assigned Serial No. 14/690,444;

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Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

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Page 1 of 2

in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.	

Shin Horng WONG
Dated
Imsteartan
Seau Sian LIM
3 Feb 2016
Dated
David BHATOOLAUL

Dated

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for wh patent	ich As	signor i	s about to make or has made United States or International application for .
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Shin Horng WONG		
Dated		
Seau Sian LIM	 	
Dated		

David BHATOOLAUL

11-FOB-16

Dated