503546976 10/29/2015

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| MOSTAFA TOFIGHBAKHSH | 12/13/2010 |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14927460 |

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| NAME OF SUBMITTER: | THOMAS E. WATSON |
| SIGNATURE: | /Thomas E. Watson/ |
| DATE SIGNED: | 10/29/2015 |

Total Attachments: 2

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PATENT 503546976 REEL: 036918 FRAME: 0918

ASSIGNMENT AND AGREEMENT

For value received, I, Mostafa Tofigh of Cupertino CA, USA, hereby sell, assign and transfer to AT&T Intellectual Property I, L.P., having an office 645 Plumb Lane, Reno Nevada, 89502, and its successors, assigns and legal representatives (Assignee), the entire right, title and interest, for the United States of America, in and to certain inventions related to Collaborative Radio Resources Allocations to applications of Mobile Units 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 said Assignee 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 said Assignee 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 said Assignee 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 Assignee in the United States and in all countries foreign to the United States, or to such nominees as said Assignee may designate.

PATENT REEL: 036918 FRAME: 0919

papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection. Mostafa Tofighbakhsh United States of America State of California)ss.: County of Santa clava On this 13 day of Dec , 20 io , before me personally came Mostafa Tofighbakhsh, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same. Document attached! Assignment and Agree went Notary Public State of California County of SANTA CON DEC 13 1010 before me NUM Notary Public, personally appeared Mosta-la who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(les), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY

I agree that, when requested, I shall, without charge to said Assignee but at its expense, sign all

SUNITA SINGH
Commission # 1819169
Notary Public - California
Santa Clara County
My Comm. Expires Nov 18, 2012

RECORDED: 10/29/2015

under the laws of the State of California that the foregoing paragraph is true and correct. WiTNESS my hand and official seal.

PATENT REEL: 036918 FRAME: 0920