

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Saeed S. Ghassemzadeh</td> <td>11/16/2009</td> </tr> <tr> <td>Jason Vincent Bellorado</td> <td>11/19/2009</td> </tr> <tr> <td>Ashley B. Tarokh</td> <td>11/19/2009</td> </tr> </tbody> </table>		Name	Execution Date	Saeed S. Ghassemzadeh	11/16/2009	Jason Vincent Bellorado	11/19/2009	Ashley B. Tarokh	11/19/2009		
Name	Execution Date										
Saeed S. Ghassemzadeh	11/16/2009										
Jason Vincent Bellorado	11/19/2009										
Ashley B. Tarokh	11/19/2009										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>AT&T Intellectual Property I, L.P.</td> </tr> <tr> <td>Street Address:</td> <td>645 E. Plumb Lane</td> </tr> <tr> <td>City:</td> <td>Reno</td> </tr> <tr> <td>State/Country:</td> <td>NEVADA</td> </tr> <tr> <td>Postal Code:</td> <td>89502</td> </tr> </table>		Name:	AT&T Intellectual Property I, L.P.	Street Address:	645 E. Plumb Lane	City:	Reno	State/Country:	NEVADA	Postal Code:	89502
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Street Address:	645 E. Plumb Lane										
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13848845</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13848845						
Property Type	Number										
Application Number:	13848845										
CORRESPONDENCE DATA											
Fax Number:	5123386301										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	5123386300										
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ATTORNEY DOCKET NUMBER:	037-0111-1										
NAME OF SUBMITTER:	Peggy S. Pepitone										
Total Attachments: 12 source=Assignment_037-0111-1#page1.tif											

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ASSIGNMENT OF INVENTION

For good and valuable consideration, the receipt of which is hereby acknowledged,
I, an ASSIGNOR named below,

Saeed S. Ghassemzadeh of Andover, NJ
Jason Vincent Bellorado of Santa Clara, CA
Ashley B. Tarokh of Brookline, MA

hereby sell, assign and transfer to

ASSIGNEE: AT&T Intellectual Property I, L.P., a Nevada limited partnership,
having a place of business at 645 E. Plumb Lane, Reno, NV 89502,

its successors, assigns and legal representatives, my entire right, title and interest throughout
the world, including all rights to claim priority, in and to the invention(s) disclosed in:

- U.S. Patent Application executed on or about the date of this Assignment,
- U.S. Patent Application executed on _____, or
- U.S. Provisional Application
- U.S. Application No.: _____, filed on _____
- International Application No.: PCT/_____, filed on _____

ENTITLED: **NARROWBAND INTERFERENCE REJECTION FOR
ULTRA-WIDEBAND SYSTEMS**, and naming as

INVENTOR(S): Saeed S. Ghassemzadeh, Jason Vincent Bellorado, and
Ashley B. Tarokh

including without limitation, my entire right, title and interest in and to U.S. Provisional
Application 61/182,803, filed June 1, 2009 and, more generally in and to, any and all United
States and foreign applications (including any and all provisional, international, regional and
foreign national applications) for said invention(s), including divisions, continuations,
continuations-in-part, renewals, substitutes and extensions thereof, and in and to any and all
patents of every country or region that may be granted or have been granted for said
invention(s), including any reissues and reexaminations thereof.

To comply with 37 C.F.R. § 3.21 for recording this Assignment, I authorize and request that
the application number and filing date be inserted here, if not already shown above,
(12 / 622,493 , filed November 20, 2009) when they become known.

I authorize ASSIGNEE to apply for patents of foreign countries for said invention(s), and to
claim all rights of priority without further authorization from me.

I agree to execute any and all papers useful in connection with any and all United States and
foreign applications (including international, regional, and foreign national applications), and
generally to do everything possible to aid ASSIGNEE, its successors, assigns and nominees,
at their request and reasonable expense, in obtaining and enforcing patents for said
invention(s) in all countries.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or
will be made or entered into that would conflict with this Assignment.

ASSIGNMENT OF INVENTION

I authorize and request the Commissioner of Patents and Trademarks to issue any U.S. Letters Patent that may be granted for said invention(s) to ASSIGNEE, its successors or assigns.

Executed on Nov 16, 2009 by Saeed S. Ghassemzadeh
 Saeed S. Ghassemzadeh

----- Notary Use Below -----

ACKNOWLEDGMENT

State of New Jersey
 County of Atlantic

On 11/16/09, before me, Saeed S. Ghassemzadeh, personally appeared
 (Date) (Printed Name of Notary)

Saeed S. Ghassemzadeh, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of New Jersey that the foregoing paragraph is true and correct.

ROBIN L. BADDERS
ID # 2220046
NOTARY PUBLIC OF NEW JERSEY
 Commission Expires 11/30/2013

WITNESS my hand and official seal.

Robin L. Badders
 Signature of Notary

ASSIGNMENT OF INVENTION

Executed on _____, 200__ by _____
Jason Vincent Bellorado

----- Notary Use Below -----

ACKNOWLEDGMENT

State of _____)
County of _____)

On _____, before me, _____, personally appeared
(Date) (Printed Name of Notary)

Jason Vincent Bellorado, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SEAL

Signature of Notary

ASSIGNMENT OF INVENTION

Executed on _____, 200__ by _____
Ashley B. Tarokh

----- Notary Use Below -----

ACKNOWLEDGMENT

State of _____)
County of _____)

On _____, before me, _____, personally appeared
(Date) (Printed Name of Notary)

Ashley B. Tarokh, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SEAL

Signature of Notary

ASSIGNMENT OF INVENTION

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Saeed S. Ghassemzadeh of Andover, NJ
Jason Vincent Bellorado of Santa Clara, CA
Ashley B. Tarokh of Brookline, MA

hereby sell, assign and transfer to

ASSIGNEE: AT&T Intellectual Property I, L.P., a Nevada limited partnership, having a place of business at 645 E. Plumb Lane, Reno, NV 89502,

its successors, assigns and legal representatives, my entire right, title and interest throughout the world, including all rights to claim priority, in and to the invention(s) disclosed in:

- U.S. Patent Application executed on or about the date of this Assignment,
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- U.S. Application No.: _____, filed on _____
- International Application No.: PCT/ _____, filed on _____

ENTITLED: **NARROWBAND INTERFERENCE REJECTION FOR ULTRA-WIDEBAND SYSTEMS**, and naming as

INVENTOR(S): Saeed S. Ghassemzadeh, Jason Vincent Bellorado, and Ashley B. Tarokh

including without limitation, my entire right, title and interest in and to U.S. Provisional Application 61/182,803, filed June 1, 2009 and, more generally in and to, any and all United States and foreign applications (including any and all provisional, international, regional and foreign national applications) for said invention(s), including divisions, continuations, continuations-in-part, renewals, substitutes and extensions thereof, and in and to any and all patents of every country or region that may be granted or have been granted for said invention(s), including any reissues and reexaminations thereof.

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I agree to execute any and all papers useful in connection with any and all United States and foreign applications (including international, regional, and foreign national applications), and generally to do everything possible to aid ASSIGNEE, its successors, assigns and nominees, at their request and reasonable expense, in obtaining and enforcing patents for said invention(s) in all countries.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

ASSIGNMENT OF INVENTION

I authorize and request the Commissioner of Patents and Trademarks to issue any U.S. Letters Patent that may be granted for said invention(s) to ASSIGNEE, its successors or assigns.

Executed on _____, 200__ by _____
Saeed S. Ghassemzadeh

----- Notary Use Below -----

ACKNOWLEDGMENT

State of _____)
County of _____)

On _____, before me, _____, personally appeared
(Date) (Printed Name of Notary)

Saeed S. Ghassemzadeh, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SEAL

Signature of Notary

ASSIGNMENT OF INVENTION

Executed on Nov. 19, 2009 by Jason Vincent Bellorodo
Jason Vincent Bellorodo

----- Notary Use Below -----

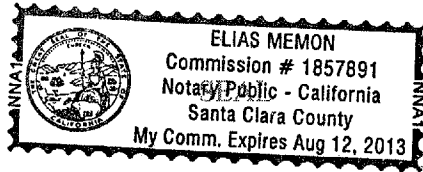
ACKNOWLEDGMENT

State of CALIFORNIA)
County of SANTA CLARA)

On 11/19/2009, before me, ELIAS MEMON, NOTARY PUBLIC, personally appeared
(Date) (Printed Name of Notary)

Jason Vincent Bellorodo, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of CALIFORNIA that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.

Elias Memon
Signature of Notary

ASSIGNMENT OF INVENTION

Executed on _____, 200__ by _____
Ashley B. Tarokh

----- Notary Use Below -----

ACKNOWLEDGMENT

State of _____)
County of _____)

On _____, before me, _____, personally appeared
(Date) (Printed Name of Notary)

Ashley B. Tarokh, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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WITNESS my hand and official seal.

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I, an ASSIGNOR named below,

Saeed S. Ghassemzadeh of Andover, NJ
Jason Vincent Bellorado of Santa Clara, CA
Ashley B. Tarokh of Brookline, MA

hereby sell, assign and transfer to

ASSIGNEE: AT&T Intellectual Property I, L.P., a Nevada limited partnership,
having a place of business at 645 E. Plumb Lane, Reno, NV 89502,

its successors, assigns and legal representatives, my entire right, title and interest throughout
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- U.S. Application No.: _____, filed on _____
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INVENTOR(S): Saeed S. Ghassemzadeh, Jason Vincent Bellorado, and
Ashley B. Tarokh

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ASSIGNMENT OF INVENTION

I authorize and request the Commissioner of Patents and Trademarks to issue any U.S. Letters Patent that may be granted for said invention(s) to ASSIGNEE, its successors or assigns.

Executed on _____, 200__ by _____
Saeed S. Ghassemzadeh

----- Notary Use Below -----

ACKNOWLEDGMENT

State of _____)
County of _____)

On _____, before me, _____, personally appeared
(Date) (Printed Name of Notary)

Saeed S. Ghassemzadeh, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SEAL

Signature of Notary

ASSIGNMENT OF INVENTION

Executed on _____, 200__ by _____
Jason Vincent Bellorado

----- Notary Use Below -----

ACKNOWLEDGMENT

State of _____)
County of _____)

On _____, before me, _____, personally appeared
(Date) (Printed Name of Notary)

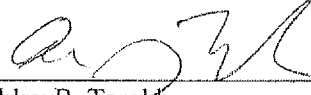
Jason Vincent Bellorado, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SEAL

Signature of Notary

Executed on November 19, 2009 by 
Ashley B. Tarokh

----- Notary Use Below -----

ACKNOWLEDGMENT

State of MASSACHUSETTS
County of Middlesex

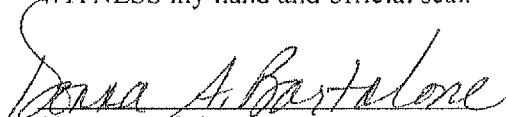
On 11/19/09, before me, Donna A. Bartolone, personally appeared
(Date) (Printed Name of Notary)

Ashley B. Tarokh, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of MASSACHUSETTS that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SEAL


Signature of Notary

Donna A. Bartolone
Notary Public
My Commission Expires
April 16, 2010