

## 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>Vaneet Aggarwal</td> <td>09/05/2012</td> </tr> <tr> <td>Rittwik Jana</td> <td>09/06/2012</td> </tr> <tr> <td>Christopher W. Rice</td> <td>09/06/2012</td> </tr> <tr> <td>Nemmara K. Shankaranarayanan</td> <td>09/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Vaneet Aggarwal	09/05/2012	Rittwik Jana	09/06/2012	Christopher W. Rice	09/06/2012	Nemmara K. Shankaranarayanan	09/05/2012
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Nemmara K. Shankaranarayanan	09/05/2012										
RECEIVING PARTY DATA											
Name:	AT&T Intellectual Property I, LP										
Street Address:	675 W. Peachtree Street										
Internal Address:	Suite 4000										
City:	Atlanta										
State/Country:	GEORGIA										
Postal Code:	30375										
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>13618096</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13618096						
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Application Number:	13618096										
CORRESPONDENCE DATA											
Fax Number:	4105101433										
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ATTORNEY DOCKET NUMBER:	2011-2186										
NAME OF SUBMITTER:	Quy Le										

OP \$40.00 13618096

**Total Attachments: 5**

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**ASSIGNMENT AND AGREEMENT**

For value received, we, **Vaneet AGGARWAL**, of 889 Edwards Road #C-10, Parsippany, in the County of Morris and State of New Jersey 07054; **Rittwik JANA**, of 69 Albert Court, Parsippany, in the County of Morris and State of New Jersey 07054; **Christopher W. RICE**, of 3 Pinecrest Lane, Parsippany, in the County of Morris and State of New Jersey 07054; and **Nemmara K. SHANKARANARAYANAN**, of 18 Kershaw Court, Bridgewater, in the County of Somerset and State of New Jersey 08807, hereby sell, assign and transfer to **AT&T INTELLECTUAL PROPERTY I, L.P.**, a partnership organized under the laws of the State of Nevada, having a place of business at 675 W. Peachtree Street, Suite 4000, Atlanta, Georgia 30375, 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 **SYSTEM AND METHOD FOR FULL-DUPLEX MEDIA ACCESS CONTROL USING REQUEST-TO-SEND SIGNALING** described in an application for Letters Patent of the United States, executed by us 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 we also concurrently hereby sell, assign and transfer to **AT&T INTELLECTUAL PROPERTY I, LP.** 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.

We authorize **AT&T INTELLECTUAL PROPERTY I, LP.** 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 us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We 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 **AT&T INTELLECTUAL PROPERTY I, LP.** to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to **AT&T INTELLECTUAL PROPERTY I, LP.** in the United States and in all countries foreign to the United States, or to such nominees as **AT&T INTELLECTUAL PROPERTY I, LP.** may designate.

We agree that, when requested, we shall, without charge to AT&T INTELLECTUAL PROPERTY I, L.P. 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.

Vaneet  
Vaneet AGGARWAL

Date: 9/5/2012

United States of America )

State of New Jersey

County of Monmouth )

On this 5th day of September, 2012, before me personally came Vaneet AGGARWAL, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Nancy L. Ridge  
Notary Public  
Nancy L. Ridge  
Notary Public  
New Jersey  
My Commission Expires 6-13-2015

*Rittwik JANA*  
Rittwik JANA

Date: 9/6/2012

United States of America )

State of NJ )

County of Union )

On this 6th day of September, 2012, before me personally came Rittwik JANA, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

*Ingrid Filannino*  
Notary Public

INGRID FILANNINO  
ID # 2226569  
NOTARY PUBLIC OF NEW JERSEY  
Term Expires 6/15/2014

  
Christopher W. RICE

Date: 9/6/2012

United States of America )

State of   NJ   )

County of   UNION   )

On this 6<sup>TH</sup> day of September, 2012, before me personally came Christopher W. RICE, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

INGRID FILANNINO  
ID # 2226569  
NOTARY PUBLIC OF NEW JERSEY  
Commission Expires 6/15/2014

Nemmara  
Nemmara

K.

SHANKARANARAYANAN

Date: 09/05/2012

United States of America )

State of New Jersey)

County of Morris )

On this 5th day of September 2012, before me personally came Nemmara K. SHANKARANARAYANAN, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Nancy L. Ridge  
Notary Public

Nancy L. Ridge  
Notary Public  
New Jersey  
My Commission Expires 6-13-2015

Correspondence Address:  
AT&T Services, Inc.  
One AT&T Way  
Bedminster, New Jersey 07921