503059535 11/13/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID GIBBON	09/05/2007
LEE BEGEJA	09/05/2007
ZHU LIU	09/05/2007
BERNARD S. RENGER	09/05/2007
BEHZAD SHAHRARAY	09/05/2007

RECEIVING PARTY DATA

Name:	AT&T SERVICES, INC.
Street Address:	175 EAST HOUSTON STREET
City:	SAN ANTONIO
State/Country:	TEXAS
Postal Code:	78205

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14530124

CORRESPONDENCE DATA

Fax Number: (847)510-0710

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: docketing@ggip.com

Correspondent Name: AT&T LEGAL DEPARTMENT - GMG ATTN: PATENT

Address Line 1: ROOM 2A-207 Address Line 2: ONE AT&T WAY

Address Line 4: BEDMINSTER, NEW JERSEY 07921

ATTORNEY DOCKET NUMBER:	7785-0479-01 (1 OF 2)
NAME OF SUBMITTER:	JOSEPH HRUTKA
SIGNATURE:	/Joseph Hrutka/
DATE SIGNED:	11/13/2014

Total Attachments: 8

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ASSIGNMENT

WHEREAS, We, <u>David Gibbon</u>, residing at <u>107 Majestic South</u>, <u>Lincroft</u>, <u>NJ 07738</u>, and <u>Lee Begeja</u>, residing at <u>12 Dunbridge Lane</u>, <u>Gillette</u>, <u>NJ 07933</u>, and <u>Zhu Liu</u>, residing at <u>34 Hummingbird Court</u>, <u>Marlboro</u>, <u>NJ 07746</u>, and <u>Bernard S. Renger</u>, residing at <u>49 Ridge Drive</u>, <u>New Providence</u>, <u>NJ 07974</u>, and <u>Behzad Shahraray</u>, residing at <u>57 Takolusa Drive</u>, <u>Holmdel</u>, <u>NJ 07733</u>, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States entitled <u>METHOD AND SYSTEM FOR INFORMATION QUERYING</u>;

WHEREAS, We hereby authorize and request our attorneys, as listed on the Combined Declaration and Power of Attorney, at Schwegman, Lundberg, Woessner & Kluth, P.A., located at 121 South Eighth Street, Suite 1600, Minneapolis, MN 55402, to insert here in parentheses (Ser. No. 11/85/254; Filing Date: 5 FOTEMBER 6, 2007) the filing date and application number of said application when known.

AND WHEREAS, AT&T Services, Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 175 East Houston Street, San Antonio, TX 78205 (hereinafter "Assignee"), is desirous of acquiring the entire right, priority right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor,

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

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AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

in testimo:	NY WHEREOF, I have hereunto set my hand this day of
	2007.
	Some Siphy
	David Gibbon
First Witness:	Deter L. Gallella 9/5/07 Signature Dock
	Peter J. Ciallella
	Full Name (Printed)
Second Witness:	fulos Pans 3/5/07
	Signature/Date
	CZAS ASS CUX
	Full Name (Printed)

PATENT REEL: 019873 FRAME: 0919

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IN TESTIMONY	WHEREOF, I have hereunto set my hand this day of
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	· · · · · · · · · · · · · · · · · · ·
	Lee Begeja
First Witness:	
	Signature/Date
	Full Name (Printed)
Second Witness:	
	Signature/Date
	Full Name (Printed)
in testimony Sept	WHEREOF, I have hereupto set my hand this 5 day of
g	
	The Line
First Witness:	Signature Date Gallela 9/5/07
	Peter J. Cialle/la Full Name (Printed)
Second Witness:	Signature/Date
	AND REA BASCO Full Name (Printed)

PATENT REEL: 019873 FRAME: 0920

Page 4 of 4	
	HEREOF, I have hereunto set my hand this day of
, 2007.	
	Bernard S. Renger
First Witness:	
	Signature/Date
	Full Name (Printed)
Second Witness:	Signature/Date
	Ful(Name (Printed)
IN TESTIMONY W	THEREOF, I have hereunto set my hand this 5 74 day of
September 2007.	Behan Shehraran
	Behzad Shahiraray
First Witness:	Signature/Date
	Peter J. Cra/le//a Pull Name (Printed)
Second Witness:	Audreo Se 9/5/07 Signature/Date
	AUDREA BASSO
	Full Name (Printed)

PATENT REEL: 019873 FRAME: 0921

ASSIGNMENT

WHEREAS, We, <u>David Gibbon</u>, residing at <u>107 Majestic South</u>, <u>Lincroft</u>, NJ <u>07738</u>, and <u>Lee Begeja</u>, residing at <u>12 Dunbridge Lane</u>, <u>Gillette</u>, NJ <u>07933</u>, and <u>Zhu Lju</u>, residing at <u>34 Hummingbird Court</u>, <u>Marlboro</u>, NJ <u>07746</u>, and <u>Bernard S. Renger</u>, residing at <u>49 Ridge Drive</u>, <u>New Providence</u>, NJ <u>07974</u>, and <u>Behzad Shahraray</u>, residing at <u>57 Takolusa Drive</u>, <u>Holmdel</u>, NJ <u>07733</u>, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States entitled <u>METHOD AND SYSTEM FOR INFORMATION QUERYING</u>;

WHEREAS, We hereby authorize and request our attorneys, as listed on the Combined Declaration and Power of Attorney, at Schwegman, Lundberg, Woessner & Kluth, P.A., located at 121 South Eighth Street, Suite 1600, Minneapolis, MN 55402, to insert here in parentheses (Ser. No. 4/85/254; Filing Date: SEPTEMBERG, 2007) the filing date and application number of said application when known.

AND WHEREAS, AT&T Services, Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 175 East Houston Street, San Antonio, TX 78205 (hereinafter "Assignee"), is desirous of acquiring the entire right, priority right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

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AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMON	Y WHEREOF, I have hereunto set my hand this day of 07.
	David Gibbon
First Witness:	Signature/Date
	Full Name (Printed)
Second Witness;	Signature/Date
	Full Name (Printed)

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in testimony wh	EREOF, I have hereunto set my hand this 5 day of
	- De . D-257
	Lee Begeja
First Witness:	Signature/Date Signature/Date
	ISABEL M. CABRERA
	Full Name (Printed)
Second Witness:	THE Wight Thereon
	Signature/Date
	J-H.6. W. 2164T
	Full Name (Printed)
	,
IN TESTIMONY WH	EREOF, I have hereunto set my hand this day of
	Zhu Liu
First Witness:	
	Signature/Date
	Full Name (Printed)
Second Witness:	
	Signature/Date
	Full Name (Printed)

PATENT REEL: 019873 FRAME: 0924

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IN TESTIMONY WHE	REOF, I have hereunto set my hand this 5 th day of
2007.	Berner & Renger
	Bernard S. Renger
First Witness:	Signature/Date 9/5/07
	ISABEL M. CABRERA
Second Witness:	Full Name (Printed) J. H. G. Wright 5 dep 2007 Signature/Date
	J.H. G. WRIGHT Full Name (Printed)
IN TESTIMONY WHE	REOF, I have hereunto set my hand this day of
	Behzad Shahraray
Web a ware	
First Witness:	Signature/Date
Second Witness:	Full Name (Printed)
	Signature/Date
	Full Name (Printed)

PATENT REEL: 019873 FRAME: 0925

> PATENT REEL: 034161 FRAME: 0496

RECORDED: 11/13/2014