

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3524087

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
ARRIS SOLUTIONS, INC.		09/14/2015
RECEIVING PARTY DATA		
Name:	ARRIS ENTERPRISES, INC.	
Street Address:	3871 LAKEFIELD DRIVE	
City:	SUWANEE	
State/Country:	GEORGIA	
Postal Code:	30024	
PROPERTY NUMBERS Total: 175		
Property Type	Number	
Application Number:	11262729	
Application Number:	13566666	
Patent Number:	4863393	
Patent Number:	4863398	
Patent Number:	4729095	
Patent Number:	5068630	
Patent Number:	5189256	
Patent Number:	5281933	
Patent Number:	5424770	
Patent Number:	5499046	
Patent Number:	5594490	
Patent Number:	5909063	
Patent Number:	5973489	
Patent Number:	5995393	
Patent Number:	5113523	
Patent Number:	5841468	
Patent Number:	6574389	
Patent Number:	6580319	
Patent Number:	6687432	
Patent Number:	6724791	

PATENT

Property Type	Number
Patent Number:	6757910
Patent Number:	6788169
Patent Number:	6304356
Patent Number:	6434141
Patent Number:	6445474
Patent Number:	6484317
Patent Number:	6611526
Patent Number:	6619864
Patent Number:	6632008
Patent Number:	6674804
Patent Number:	6738536
Patent Number:	6754085
Patent Number:	6813270
Patent Number:	6826195
Patent Number:	6836898
Patent Number:	6853680
Patent Number:	6873195
Patent Number:	6879634
Patent Number:	6879641
Patent Number:	6907158
Patent Number:	6907159
Patent Number:	6909726
Patent Number:	6914936
Patent Number:	6937619
Patent Number:	6938198
Patent Number:	6944372
Patent Number:	6947998
Patent Number:	6959153
Patent Number:	6993257
Patent Number:	6996836
Patent Number:	6999477
Patent Number:	7196840
Patent Number:	7208992
Patent Number:	7433598
Patent Number:	7831729
Patent Number:	7844015
Patent Number:	7031259
Patent Number:	7031301

Property Type	Number
Patent Number:	7058087
Patent Number:	7061861
Patent Number:	7068716
Patent Number:	7113502
Patent Number:	7116717
Patent Number:	7120142
Patent Number:	7127182
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Patent Number:	7162733
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Patent Number:	7200718
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Patent Number:	7366239
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Patent Number:	7535888
Patent Number:	7653090
Patent Number:	7653740
Patent Number:	7660328
Patent Number:	7676720
Patent Number:	7702877
Patent Number:	7721317
Patent Number:	7764863
Patent Number:	7787439
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Patent Number:	7809264
Patent Number:	7817672
Patent Number:	7948416
Patent Number:	7971215

Property Type	Number
Patent Number:	7986702
Patent Number:	7999631
Patent Number:	8000475
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Patent Number:	8627390

Property Type	Number
Patent Number:	8693849
Patent Number:	8706894
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Patent Number:	8824509
Patent Number:	8824855
Patent Number:	8855139
Patent Number:	8862765
Patent Number:	8879591
Patent Number:	8917986
Patent Number:	8953646
Patent Number:	9014576
Patent Number:	9065566
Patent Number:	9066138
Patent Number:	9083995
Patent Number:	9094703
Application Number:	10639006
Application Number:	13905684
Application Number:	13451566
Application Number:	14201305
Application Number:	11860638
Application Number:	12098459
Application Number:	09995056
Application Number:	14507329
Application Number:	13947462
Application Number:	11936835
Application Number:	12503086
Application Number:	13774489
Application Number:	12565792
Application Number:	12348006
Application Number:	11217346
Application Number:	11698266
Application Number:	13947415
Application Number:	13905704
Application Number:	10579214
Application Number:	14201682
Application Number:	13763601
Application Number:	12001930
Application Number:	13728550

Property Type	Number
Application Number:	10683141
Application Number:	14307569
Application Number:	12371356

CORRESPONDENCE DATA

Fax Number: (678)473-8095

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.

Phone: 6784738593

Email: arris.docketing@arris.com

Correspondent Name: ARRIS ENTERPRISES, INC.

Address Line 1: 3871 LAKEFIELD DR

Address Line 4: SUWANEE, GEORGIA 30024

ATTORNEY DOCKET NUMBER:	VARIOUS
NAME OF SUBMITTER:	DENISE MOTLEY
SIGNATURE:	/Denise Motley/
DATE SIGNED:	09/14/2015

Total Attachments: 5

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ASSIGNMENT

WHEREAS, ARRIS Solutions, Inc., a corporation formed under the laws of Delaware, having a principal place of business at 3871 Lakefield Drive, Suite 300, Suwanee, Georgia 30024 (hereinafter referred to as ASSIGNOR), owns by previous assignment all right, title, and interest in and to certain inventions disclosed in the patent applications and patents identified on Exhibit A attached hereto and incorporated herein by reference; and

WHEREAS, ARRIS Enterprises, Inc., a corporation formed under the laws of Delaware, having a principal place of business at 3871 Lakefield Drive, Suite 300, Suwanee, Georgia 30024 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said inventions and the Letters Patent in the United States and foreign countries to be obtained therefore:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said inventions and all Letters Patent of the United States to be obtained therefore on said applications or any continuation, division, renewal, substitute or reissue thereof and in and to all Letters Patent and all Convention and Treaty rights of all kinds, in all countries throughout the world for said inventions for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said applications, said inventions and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said applications, said inventions and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

[Signatures on Next Page]

ASSIGNMENT

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 14th day of September, 2015.

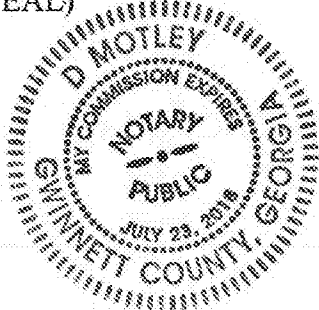
ARRIS Solutions, Inc.

By: 
Name: Patrick W. Macken
Title: Senior Vice President

STATE OF GEORGIA)
COUNTY OF FORSYTH)

I hereby certify that Patrick W. Macken, on behalf of ARRIS Solutions, Inc., as Senior Vice President, before me personally appeared and acknowledged that the foregoing assignment was duly signed, sealed and delivered by him as his free and voluntary act on this 14th day of September, 2015.

(SEAL)



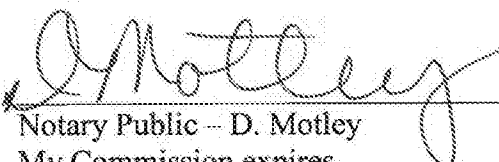

Notary Public -- D. Motley
My Commission expires _____

EXHIBIT A

File Number	Jurisdiction	PTO Status	Filing Date	Application #	Issue/Grant D Patent #
20005-CA1	CA	Issued	5/26/2000	CA 2371795	2/7/2012 CA2371795
9526	US	Published	11/1/2005	11/262,729	
20005-DIV4	US	Allowed	8/3/2012	13/566,666	
9534	US	Published	8/11/2003	10/639,006	
9539	US	Filed	5/30/2013	13/905,684	
20078	US	Published	4/20/2012	13/451,566	
21006	US	Published	3/7/2014	14/201305	
20089	US	Filed	9/25/2007	11/860,638	
20087	US	Filed	4/7/2008	12/098,459	
17024	US	Allowed	11/26/2001	09/995,056	
20069-CON2	US	Published	10/6/2014	14507329	
14014-DIV1	US	Published	7/22/2013	13/947,462	
20108-1	US	Filed	11/8/2007	11/936,835	
20075	US	Published	7/15/2009	12/503,086	
CS40187	US	Allowed	2/22/2013	13/774489	
20112	US	Published	9/24/2009	12/565,792	
20113	US	Filed	1/1/2009	12/348,006	
9520	US	Published	9/2/2005	11/217,346	
9528	US	Published	1/25/2007	11/698,266	
14014-CON1	US	Published	7/22/2013	13/947,415	
9555	US	Filed	5/30/2013	13/905,704	
9501-US3	US	Published	11/24/2008	10/579,214	
14050	US	Published	3/7/2014	14/201682	
20090	US	Published	2/8/2013	13/763,601	
9530-US2	US	Published	12/12/2007	12/001,930	
21004	US	Filed	12/27/2012	13/728,550	
20076	US	Allowed	10/9/2003	10/683,141	
9561	US	Published	6/18/2014	14/307569	
14008	US	Published	2/13/2009	12/371,356	
3355	US	Issued	5/25/1988	07/198,227	9/5/1989 4,863,393
3360	US	Issued	1/30/1989	07/303,903	9/5/1989 4,863,398
9531	US	Issued	5/19/1986	06/864,596	3/1/1988 4729095
17027-US	US	Issued	2/14/1989	07/450,759	11/26/1991 5,068,630
3365	US	Issued	1/30/1989	07/793,205	2/23/1993 5,189,256
17028	US	Issued	10/29/1991	07/784,285	1/25/1994 5,281,933
17013-CON	US	Issued	9/15/1994	08/305,312	6/13/1995 5,424,770
9545	US	Issued	5/23/1994	08/247,967	3/12/1996 5,499,046
9547	US	Issued	5/23/1994	08/247,834	1/14/1997 5,594,490
17032	US	Issued	12/30/1996	08/774,766	6/1/1999 5,909,063
17033	US	Issued	12/8/1998	09/207,723	10/26/1999 5,973,489
17010	US	Issued	7/31/1998	09/127,002	11/30/1999 5,995,393
9548	US	Issued	5/6/1985	06/731,170	5/12/1992 5,113,523
17021	US	Issued	4/26/1996	08/638,280	11/24/1998 5,841,468
14037-2	US	Issued	6/30/1999	09/343,909	6/3/2003 6,574,389
14016	US	Issued	4/19/2001	09/838,687	6/17/2003 6,580,319
14037-CON1	US	Issued	4/2/2002	10/114,641	2/3/2004 6,687,432
14015	US	Issued	7/2/2002	10/188,944	4/20/2004 6,724,791
17034	US	Issued	6/8/2000	09/590,933	6/29/2004 6,757,910
14038	US	Issued	12/29/1999	09/474,295	9/7/2004 6,788,169
17030-US	US	Issued	10/27/1998	09/179,285	10/16/2001 6,304,355
20005-2	US	Issued	5/26/2000	09/579,551	8/13/2002 6,434,141
17011-US	US	Issued	5/27/1999	09/321,326	9/3/2002 6,445,474
17021-CON1	US	Issued	8/11/1998	09/137,448	11/19/2002 6,484,317
20008	US	Issued	5/8/2000	09/566,540	8/26/2003 6,611,526
17019	US	Issued	3/15/2001	09/808,222	9/16/2003 6,619,864
20037	US	Issued	11/9/2001	10/008,651	10/14/2003 6,632,008
20038	US	Issued	11/12/2001	10/011,341	1/6/2004 6,674,804

17015	US	Issued	12/20/2001 10/022,360	5/18/2004 6738536
20036	US	Issued	11/1/2001 10/002,218	6/22/2004 6754085
20005-CIP4	US	Issued	7/23/2001 09/911,930	11/2/2004 6813270
20006	US	Issued	12/28/1999 09/474,039	11/30/2004 6826195
14039	US	Issued	2/21/1998 09/217,430	12/28/2004 6836898
20009	US	Issued	5/10/2000 09/568,628	2/8/2005 6853680
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20005-1	US	Issued	12/15/1999 09/461,859	4/12/2005 6879634
20042	US	Issued	6/13/2002 10/170,770	4/12/2005 6879641
17039	US	Issued	11/4/2002 10/286,975	6/14/2005 6907158 B2
17040	US	Issued	2/21/2003 10/370,113	6/14/2005 6907159 B1
9535	US	Issued	10/27/2000 09/699,236	6/21/2005 6909726
20017	US	Issued	7/19/2001 09/909,490	7/5/2005 6914936
20015	US	Issued	5/29/2001 09/870,056	8/30/2005 6937619
17036	US	Issued	10/5/2001 09/972,007	8/30/2005 6938198
17038	US	Issued	9/21/2001 09/957,022	9/13/2005 6944372
17007	US	Issued	3/7/2002 10/094,035	9/20/2005 6947998
17045	US	Issued	12/20/2001 10/022,516	10/25/2005 6959153 B2
17042	US	Issued	8/15/2001 09/929,339	1/31/2006 6993257 B2
17021-CON2	US	Issued	11/19/2002 10/298,509	2/7/2006 6996836
20005-CIP1	US	Issued	4/23/2001 09/841,579	2/14/2006 6999477
14027	US	Issued	11/25/2002 10/303,050	3/27/2007 7,196,840
17009	US	Issued	11/8/2001 10/010,615	4/24/2007 7,208,992
14030	US	Issued	6/29/2001 09/896,547	10/7/2008 7,433,598
20073	US	Issued	2/26/2008 12/037,103	11/9/2010 7,831,729
20071	US	Issued	12/18/2006 11/612,331	11/30/2010 7,844,015
20005-CIP7	US	Issued	3/6/2002 10/093,210	4/18/2006 7031259
20005-DIV1	US	Issued	8/23/2001 09/938,338	4/18/2006 7031301
20016	US	Issued	5/29/2001 09/870,069	6/6/2006 7058087
17037	US	Issued	7/6/2000 09/611,180	6/13/2006 7061861
20012	US	Issued	3/15/2001 09/810,154	6/27/2006 7068716
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20005-CIP2	US	Issued	5/29/2001 09/870,708	10/3/2006 7116717
20005-DIV2	US	Issued	8/23/2001 09/938,352	10/10/2006 7120142
17020	US	Issued	10/16/2002 10/270,726	10/24/2006 7127182
20066	US	Issued	8/9/2005 11/126,021	12/19/2006 7151782
002598	US	Issued	10/2/2001 09/968824	1/9/2007 7162733
20005-CIP3	US	Issued	7/11/2001 09/903,980	2/20/2007 7181759
20005-CIP6	US	Issued	12/27/2001 10/033,488	2/27/2007 7184433
20014	US	Issued	4/19/2001 09/839,955	3/6/2007 7187697
9519	US	Issued	4/26/2004 10/832,489	4/3/2007 7200718 B2
20007	US	Issued	3/2/2000 09/517,818	6/26/2007 7237251
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20061	US	Issued	4/21/2004 10/828,722	9/11/2007 7267568
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20065	US	Issued	1/26/2005 11/045,671	4/29/2008 7366239
20016-CON1	US	Issued	6/13/2005 11/151,477	7/1/2008 7395321
20050	US	Issued	7/14/2003 10/619,900	7/8/2008 7397822
20005-3	US	Issued	6/16/2000 09/595,624	11/11/2008 7451475
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14038-DV1	US	Issued	5/19/2004 10/847,866	1/6/2009 7474150
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20054-CON1	US	Issued	10/14/2003 10/685,958	7/27/2010 7764863 B1

20005-CIP8	US	Issued	7/1/2002 10/187,917	8/31/2010 7787439
14026-CON	US	Issued	5/13/2004 10/846,297	9/7/2010 7792023
14025	US	Issued	2/9/2006 11/350,105	10/5/2010 7809264
20004-2	US	Issued	12/28/2006 11/617,637	10/19/2010 7817672
14010	US	Issued	3/17/2009 12/406,101	5/24/2011 7948416
20072	US	Issued	7/8/2007 11/774,601	6/28/2011 7971215 B1
20074-1	US	Issued	11/26/2008 12/323,486	7/26/2011 7986702 B1
14013	US	Issued	3/17/2009 12/406,045	8/16/2011 7999631 B2
20057	US	Issued	12/23/2003 10/746,616	8/16/2011 8000475 B1
20000	US	Issued	10/24/2003 10/693,509	10/11/2011 8036250 B1
20002-CON1	US	Issued	2/9/2005 11/055,507	11/29/2011 8068516 B1
20004	US	Issued	3/21/2006 11/277,110	12/20/2011 8081657 B2
20005-CON3	US	Issued	1/6/2006 11/326,779	1/31/2012 8107526 B2
20003	US	Issued	4/13/2005 11/106,388	1/31/2012 8108896
14012	US	Issued	3/17/2009 12/406,094	3/27/2012 8145066 B2
14011	US	Issued	3/17/2009 12/406,107	3/27/2012 8145068B2
9501-US2	US	Issued	5/18/2007 10/579,097	3/27/2012 8146123
20077	US	Issued	12/31/2007 11/967,421	5/1/2012 8171166B1
20102-2	US	Issued	3/29/2007 11/692,939	5/8/2012 8175175 B1
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20004-3	US	Issued	2/28/2007 11/680,172	7/10/2012 8218651 B1
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20005-CON2	US	Issued	1/5/2006 11/327,077	8/7/2012 8238441 B2
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20069	US	Issued	8/9/2005 11/200,754	8/21/2012 8249114 B2
14005	US	Issued	4/7/2009 12/420,049	9/4/2012 8260138B2
20094	US	Issued	11/27/2008 12/324,865	10/16/2012 8291103 B1
9503	US	Issued	11/17/2008 12/272,773	10/30/2012 8301776 B2
20114	US	Issued	10/9/2008 12/248,892	1/15/2013 8355450 B1
20083	US	Issued	9/7/2008 12/205,878	2/26/2013 8386630 B1
20115	US	Issued	1/5/2010 12/652,080	2/26/2013 8387105 B1
9533	US	Issued	1/12/2001 09/759,935	4/9/2013 8418214 B2
20079	US	Issued	5/30/2011 13/118,482	4/9/2013 8418216 B2
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14014	US	Issued	12/15/2008 12/335,436	7/23/2013 8493853 B2
17008-DIV1	US	Issued	4/27/2010 12/768,579	7/23/2013 8495696 B1
20106	US	Issued	7/8/2007 11/774,604	8/20/2013 8516517 B1
BC504842	US	Issued	7/30/2008 12/183,055	9/3/2013 8526489
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20086	US	Issued	4/7/2008 12/098,461	1/7/2014 8627347 B1
20004-1	US	Issued	10/16/2006 11/549,909	1/7/2014 8627390 B2
17004	US	Issued	12/28/2007 12/005,986	4/8/2014 8693849 B2
20004-4	US	Issued	3/27/2007 11/691,543	4/22/2014 8706894 B1
20094-CON1	US	Issued	10/16/2012 13/653,050	8/12/2014 8806052 B1
20004-CON1	US	Issued	12/20/2011 13/331,476	9/2/2014 8824509 B1
9502	US	Issued	12/15/2008 12/335,446	9/2/2014 8824855 B2
20069-CON1	US	Issued	8/21/2012 13/591,015	10/7/2014 8855139 B1
9506	US	Issued	10/20/2008 12/254,828	10/14/2014 8862765 B2
14032	US	Issued	9/29/2005 11/237,846	11/4/2014 8879591 B2
17005	US	Issued	12/6/2007 11/999,761	12/23/2014 8917986 B2
20000-CON1	US	Issued	10/11/2011 13/270,877	2/10/2015 8953646 B2
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