

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5160212

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LSI CORPORATION	11/14/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTEL CORPORATION
<b>Street Address:</b>	2200 MISSION COLLEGE BLVD.
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14742041
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Email:</b>	stebo@btlaw.com
<b>Correspondent Name:</b>	BARNES & THORNBURG LLP
<b>Address Line 1:</b>	11 S. MERIDIAN STREET
<b>Address Line 4:</b>	INDIANAPOLIS, INDIANA 46204
<b>ATTORNEY DOCKET NUMBER:</b>	P79434D/45631-238456
<b>NAME OF SUBMITTER:</b>	GLEN M. KELLETT
<b>SIGNATURE:</b>	/GLEN M. KELLETT/
<b>DATE SIGNED:</b>	09/26/2018
<b>Total Attachments: 22</b>	
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**PATENT ASSIGNMENT**

This Patent Assignment (this “**Assignment**”), is made and entered into as of November 18, 2014 (“**Effective Date**”), by and between LSI CORPORATION, a Delaware corporation (“**Assignor**”) and INTEL CORPORATION, a Delaware corporation (“**Assignee**”).

**Whereas**, Assignor and Assignee have entered into that certain Asset Purchase Agreement, dated as of August 13, 2014 (the “**Asset Purchase Agreement**”), pursuant to which Assignor has agreed to irrevocably sell, transfer, assign, convey and deliver to Assignee or its designees, and Assignee has agreed to irrevocably purchase, acquire and accept from Assignor, all right, title and interest in, to and under the Purchased Assets (as defined in the Asset Purchase Agreement), including the Assigned Patents (as set forth below).

**Whereas**, the term “**Patents**” means patents or patent applications worldwide of any kind or nature (including industrial designs, utility models that are subject to statutory protection, inventor’s certificates, and any applications and registrations therefor), including any renewals, reissues, reexaminations, extensions, continuations, continuations-in-part, divisions and substitutions relating to any patents and patent applications, as well as all related counterparts to any patents and patent applications and any inventions claimed or covered thereby, wheresoever issued or pending anywhere in the world;

**Now Therefore**, for good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby transfer, assign, and convey to Assignee, and Assignee hereby accepts such transfer, assignment, and conveyance of, all right, title, and interest throughout the world, that may exist today and in the future, in, to and under all of the following (collectively, the “**Assigned Patents**”):

(a) the Patents set forth on Schedule 1 attached hereto and incorporated herein by this reference (“**Listed Patents**”);

(b) all Patents issuing on any applications included in the Listed Patents;

(c) all Patents claiming or entitled to claim priority, directly or indirectly, to any of the Patents covered by any of the foregoing, and all Patents to which any of the Patents covered by any of the foregoing claims or is entitled to claim priority, directly or indirectly;

(d) all divisionals, continuations, continuations-in-part, and foreign counterpart applications related to any of the foregoing;

(e) all reissues, reexaminations, extensions, divisions, renewals, substitutions, confirmations, registrations, revalidations, revisions, and additions of or to any of the foregoing;

(f) all Patents, including foreign counterpart Patents, issuing on any Patents covered by any of the foregoing;

(g) all remedies, claims, causes of action and enforcement rights of any kind, whether known or unknown, under, pursuant to, arising from, or related to any of the above, including all rights to bring actions for past, current or future infringement, misappropriation or other violation thereof and to seek, settle, collect and/or retain, as applicable, injunctive relief, damages, costs, proceeds and other remedies in connection with any such actions, and

(h) all benefits, privileges, powers and rights related to any of the above, including all rights to (i) royalties, income and other payments due thereunder, (ii) apply for, file, register,

maintain, extend and renew in any or all countries of the world intellectual property rights of any kind under, pursuant to, arising from, or related to any of the above, and (iii) transfer and grant licenses, releases, and other rights with respect to any of the above.

In addition, if any Listed Patent is subject to a terminal disclaimer under 37 C.F.R. § 1.321, then all Patents subject to the terminal disclaimer are also Assigned Patents, whether or not they are otherwise covered by the above, except for the Patents listed on Schedule 2.

Assignor shall execute and deliver any instruments, and otherwise reasonably cooperate with Assignee, as may be reasonably necessary or desirable for effecting and recording the transfer, assignment, and conveyance to, and to fully vest in, Assignee and its successors and assigns all Assigned Patents, including the execution, acknowledgment and recordation of any instruments with respect to any jurisdiction.

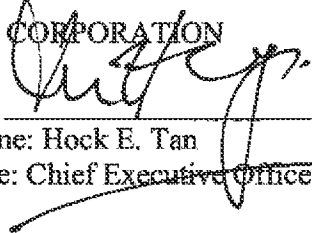
Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks and any other patent office to issue and register any and all Patents pertaining to any of the items assigned hereunder in the name of Assignee.

The assignments and rights pursuant hereto will inure to the benefit of Assignee and its successors, assigns and other legal representatives and is binding upon Assignor and its successors, assigns and other legal representatives.

*[Remainder of page intentionally left blank.]*

In Witness Whereof, Assignor and Assignee have caused this Patent Assignment to be duly executed by an authorized officer on this 14th day of November, 2014

LSI CORPORATION

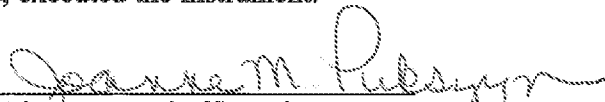
By:   
Name: Hock E. Tan  
Title: Chief Executive Officer

ACKNOWLEDGMENT


STATE OF PENNSYLVANIA  
:SS:  
COUNTY OF LEHIGH )

On November 14, 2014 before me, the undersigned, personally appeared Hock E. Tan, Chief Executive Officer of LSI Corporation personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Joanne M. Pukczyn, Notary Public  
Hanover Twp., Lehigh County  
My Commission Expires Jan. 20, 2018  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

  
(signature and office of individual taking acknowledgment)

INTEL CORPORATION

By:   
Name: Marty M. Linne  
Title: Assistant Secretary

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ )  
                                          ) :SS:  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_ before me, the undersigned, personally appeared

\_\_\_\_\_ personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

\_\_\_\_\_  
(signature and office of individual taking acknowledgment)

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Santa Clara

} ss.

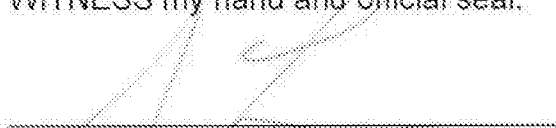
On November 17, 2014, before me, J. Shen, notary public.  
Date

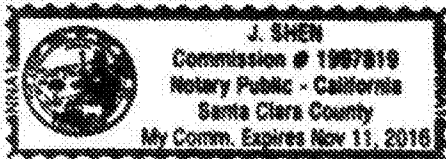
Personally appeared Marty Linne  
Name(s) of Signer(s)

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(ies), 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 under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

  
\_\_\_\_\_  
Signature of Notary Public



**SCHEDULE 1 TO PATENT ASSIGNMENT**  
**LISTED PATENTS**



Country	Application Number	Filing Date	Patent Number	Status	Next Action Required
AU	8837998	10/8/98		Abandoned	N/A
CA	2248915	9/28/98		Abandoned	N/A
CN	98119799X	10/9/98		Abandoned	N/A
FR	983080854	10/5/98		Abandoned	N/A
DE	983080854	10/5/98		Abandoned	N/A
JP	2871531998	10/9/98		Abandoned	N/A
US	08947538	10/11/97	6263443	Issued	
US	10417013	4/16/03	RE40923	Issued	N/A
US	09585476	6/1/00	6717960	Issued	3rd annuity due 10/6/2015
US	09648996	8/28/00	7145908	Issued	3rd annuity due 6/5/2018
US	11393172	3/30/06	7689821	Issued	2nd annuity due 9/30/2017
US	10029703	12/21/01	7043544	Issued	3rd annuity due 11/9/2017
US	11237274	9/28/05	7275117	Issued	2nd annuity due 3/25/2015
US	09798454	3/2/01	7000034	Issued	3rd annuity due 8/14/2017
US	09798472	3/2/01	6850516	Issued	3rd annuity due 8/1/2016
US	10082776	2/25/02	7366884	Issued	2nd annuity due 10/29/2015
US	10993627	11/19/04	7149211	Issued	3rd annuity due 6/12/2018
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US	10081308	2/20/02	7353513	Issued	2nd annuity due 10/1/2015
US	10620045	7/15/03	7822589	Issued	2nd annuity due 4/26/2018
US	11412762	4/27/06	7930691	Issued	1st annuity due 10/19/2014
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GB	022581045	11/25/02	1331757	Issued	
JP	2002364521	12/17/02	4209186	Issued	
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KR	20137025683	9/27/13		Pending	
WO	PCTUS07062201	2/15/07		Expired	N/A
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US	10620258	7/15/03	8433784	Issued	1st annuity due 10/30/2016

US	10723150	11/26/03	8181258	Issued	1st annuity due 11/15/2015
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US	10325701	12/18/02	7408959	Issued	2nd annuity due 2/5/2016
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US	12112988	4/30/08	7899904	Issued	2nd annuity due 9/4/2018
US	13016983	1/29/11	8190738	Issued	1st annuity due 11/29/2015
US	12113083	4/30/08	8156247	Issued	1st annuity due 10/10/2015
US	12167165	7/2/08	8219508	Issued	1st annuity due 1/10/2016
US	12113055	4/30/08	7788206	Issued	2nd annuity due 3/3/2018
CN	2009102082560	10/23/09	101873253	Issued	
EP	091752808	11/6/09		Pending	
JP	2010000313	1/5/10	5537956	Issued	
KR	1020090112679	11/20/09		Pending	
TW	098134398	10/9/09	I390913	Issued	
US	12430438	4/27/09	8352669	Issued	1st annuity due 7/8/16
US	12975823	12/22/10	8505013	Issued	1st annuity due 2/6/2017
US	12861852	8/24/10		Pending	Awaiting next action

US	12854315	8/11/10	8396985	Issued	1st annuity due 9/12/2016
US	12976045	12/22/10		Allowed	Pay issue fee – 10/3/2014
US	12963895	12/9/10	8499137	Issued	1st annuity due 1/30/2017
US	13046726	3/12/11	8537832	Issued	1st annuity due 3/17/2017
US	12974477	12/21/10		Pending	Awaiting next action
US	12980489	12/29/10	8438641	Issued	1st annuity due 11/7/2016
US	12976228	12/22/10		Pending	Awaiting next action
US	13046717	3/12/11	8539199	Issued	1st annuity due 3/17/2017
US	13046719	3/12/11	8321385	Issued	1st annuity due 5/27/2016
US	12975880	12/22/10	8514874	Issued	1st annuity due 2/20/2017
US	12971742	12/17/10		Pending	Awaiting next action
US	13097213	4/29/11	8359466	Issued	1st annuity due 7/22/16
US	12782379	5/18/10		Pending	Awaiting next action
US	12782393	5/18/10	8255644	Issued	1st annuity due 2/28/2016
US	12782411	5/18/10	8407707	Issued	1st annuity due 9/26/2016
US	13232422	9/14/11		Allowed	Awaiting next action
US	13251091	9/30/11	8565250	Issued	1st annuity due 4/22/2017
US	13250927	9/30/11	8619787	Issued	1st annuity due 7/1/2017
US	13250932	9/30/11	8576862	Issued	1st annuity due 5/5/2017
US	13250898	9/30/11		Allowed	Pay issue fee – 10/3/2014
US	13250910	9/30/11		Allowed	Pay issue fee – 9/20/2014
US	13250865	9/30/11		Allowed	Pay issue fee – 9/23/2014
US	13250837	9/30/11	8638805	Issued	1st annuity due 7/28/2017
US	13251035	9/30/11	8547878	Issued	1st annuity due 4/1/2017
US	13250883	9/30/11	8615013	Issued	1st annuity due 6/24/2017
US	13250891	9/30/11		Pending	Awaiting next action
US	13250938	9/30/11		Allowed	Pay issue fee – 10/2/2014
US	13316145	12/9/11		Pending	Awaiting next action
US	13192187	7/27/11		Pending	Response to OA – 9/3/2014
US	13250948	9/30/11	8837501	Allowed	Pay issue fee – 8/22/2014
US	13192104	7/27/11		Pending	Response to OA – 9/16/2014
US	13165852	6/22/11		Abandoned	N/A
US	13189822	7/25/11		Pending	Awaiting next action
US	13192140	7/27/11		Pending	Awaiting next action

US	13359690	1/27/12	8677075	Issued	1st annuity due 9/18/2017
US	13310961	12/5/11		Pending	Awaiting next action
US	13480623	5/25/12	8705531	Issued	1st annuity due 10/22/2017
US	13568365	8/7/12		Pending	Response to OA – 10/2/2014
US	13705822	12/5/12		Pending	Awaiting next action
US	13274726	10/17/11	8683221	Issued	1st annuity due 9/25/2017
US	13463169	5/3/12		Pending	Awaiting next action
US	13474114	5/17/12		Pending	
US	13403468	2/23/12	8515965	Issued	1st annuity due 2/20/2017
US	13944311	7/17/13		Pending	Awaiting next action
US	13405053	2/24/12	8761204	Issued	1st annuity due 12/24/2017
US	13336160	12/23/11	8711882	Issued	1st annuity due 10/29/2017
US	13250954	9/30/11	8843682	Allowed	Pay issue fee – 10/31/2014
US	13687719	11/28/12		Allowed	Pay issue fee – 10/7/2014
US	13687772	11/28/12		Allowed	Pay issue fee – 10/3/2014
US	13687911	11/28/12		Pending	Awaiting next action
US	13687958	11/28/12		Pending	Awaiting next action
US	13687865	11/28/12		Pending	Awaiting next action
US	13687971	11/28/12		Pending	Awaiting next action
US	13646342	10/11/12		Pending	Response to OA – 9/17/2014
US	13646315	10/11/12		Pending	Awaiting next action
US	13659122	10/24/12		Pending	Awaiting next action
US	13656562	10/19/12		Pending	Awaiting next action
US	13669528	11/6/12		Pending	Awaiting next action
US	13551002	7/17/12		Pending	Response to OA – 8/7/2014
US	13746080	1/21/13		Pending	Awaiting next action
US	13756849	2/1/13		Pending	Awaiting next action
US	13746104	1/21/13		Pending	Awaiting next action
US	13737163	1/9/13		Pending	Awaiting next action
US	13795579	3/12/13		Pending	Awaiting next action
US	09156432	9/18/98	6304553	Issued	
US	12565453	9/23/09	8271847	Issued	1st annuity due 3/18/2016
US	13591892	8/22/12	8745461	Issued	1st annuity due 12/3/2017
US	11239273	9/29/05	7624333	Issued	2nd annuity due 5/24/2017
US	11395769	3/31/06	7801144	Issued	2nd annuity due 3/21/2018
US	09821898	3/30/01	7250797	Issued	2nd annuity due 1/31/2015
US	11773344	7/3/07	7724855	Issued	2nd annuity due

					11/27/2017
US	11461181	7/31/06	7724723	Issued	2nd annuity due 11/25/2017
US	08510643	8/3/95	5802287	Expired	N/A
US	08903588	7/31/97	6331988	Issued	
US	10723160	11/26/03	7644085	Issued	2nd annuity due 7/15/2017
FR	999662596	12/14/99	1142242	Issued	
DE	999662596	12/14/99	69936734.4	Issued	
GB	999662596	12/14/99	1142242	Issued	
JP	2000588934	12/14/99	3745229	Issued	
WO	PCTUS9929746	12/14/99		Expired	N/A
US	09460165	12/13/99	6675327	Issued	3rd annuity due 7/6/2015
US	10285069	10/31/02	8780898	Issued	1st annuity due 1/16/2018
US	11382942	5/12/06	7817629	Issued	2nd annuity due 4/19/2018
US	09427961	10/27/99	6895016	Issued	3rd annuity due 11/17/2016
US	09405205	9/24/99	7042895	Issued	3rd annuity due 11/9/2017
US	08612373	3/7/96	5726985	Issued	
US	09036966	3/9/98		Abandoned	N/A
US	09036966	3/9/98	6373846	Issued	
US	08611327	3/8/96	5621773	Issued	
US	08710207	9/13/96	5831980	Issued	
US	08714005	9/13/96	5959993	Issued	
US	09345169	6/30/99		Abandoned	N/A
US	08867249	6/2/97	6075788	Issued	
US	09464267	12/17/99	6839352	Issued	3rd annuity due 7/4/2016
EP	983042383	5/28/98		Abandoned	N/A
US	09885777	6/20/01	7027499	Issued	3rd annuity due 10/11/2017
FR	973010150	2/18/97		Abandoned	N/A
DE	973010150	2/18/97		Abandoned	N/A
GB	973010150	2/18/97		Abandoned	N/A
JP	9037558	2/21/97		Abandoned	N/A
US	08607730	2/27/96	6201807	Issued	
CA	2161359	10/25/95	2161359	Lapsed	
FR	953085354	11/28/95		Abandoned	N/A
DE	953085354	11/28/95		Abandoned	N/A
GB	953085354	11/28/95		Abandoned	N/A
IT	953085354	11/28/95		Abandoned	N/A
JP	07344735	12/7/95	3115813	Issued	
ES	953085354	11/28/95		Abandoned	N/A
US	08350926	12/7/94	5513174	Issued	
US	09471806	12/23/99	6980592	Issued	3rd annuity due 6/27/2017
US	12346296	12/30/08	7940808	Issued	1st annuity due 11/10/14
FR	999652696	12/14/99	1142241	Issued	
DE	999652696	12/14/99	69937201.1	Issued	
GB	999652696	12/14/99	1142241	Issued	



JP	2000588935	12/14/99	3707537	Issued	
WO	PCTUS9929751	12/14/99		Expired	N/A
US	09459848	12/13/99	6678842	Issued	3rd annuity due 7/13/2015
FR	999652662	12/14/99	1142240	Issued	
DE	999652662	12/14/99	69938398.6	Issued	
GB	999652662	12/14/99	1142240	Issued	
JP	2000588933	12/14/99	3707536	Issued	
WO	PCTUS9929744	12/14/99		Expired	N/A
US	09459831	12/13/99	6909727	Issued	3rd annuity due 12/21/2016
US	09459439	12/13/99	6775302	Issued	3rd annuity due 2/10/2016
US	10899078	7/27/04	7486703	Issued	2nd annuity due 8/3/2016
CN	2007800227827	4/24/07	101473611	Issued	
EP	077611788	4/24/07	2067320	Completed	N/A
FR	077611788	4/24/07	2067320	Issued	
DE	077611788	4/24/07	602007016109.6	Issued	
GB	077611788	4/24/07	2067320	Issued	
JP	2009530483	4/24/07	4970543	Issued	
KR	20097006191	4/24/07	10-1301784	Issued	
WO	PCTUS0767281	4/24/07		Completed	N/A
US	11536191	9/28/06	7580426	Issued	2nd annuity due 2/25/2017
US	11839002	8/15/07	7743196	Issued	2nd annuity due 12/22/2017
GB	06246615	12/11/06	2437561	Issued	
JP	2007118018	4/27/07	4856580	Issued	
KR	20070041541	4/27/07	10-1303507	Issued	
US	11412915	4/27/06	7802245	Issued	2nd annuity due 3/21/2018
JP	2009513342	2/23/07	5197583	Issued	
KR	1020087029139	2/23/07	10-1329263	Issued	
WO	PCTUS07062639	2/23/07		Expired	N/A
GB	08193013	2/23/07	2450068	Issued	
US	11443393	5/30/06		Pending	Awaiting next action
US	09798130	3/2/01	6687803	Issued	3rd annuity due 8/3/2015
US	09791139	2/22/01	6810424	Issued	3rd annuity due 4/26/2016
US	10269928	10/11/02	7586909	Issued	2nd annuity due 3/8/2017
US	10270264	10/11/02	7319695	Issued	2nd annuity due 7/15/2015
US	10358678	2/5/03	7426185	Issued	2nd annuity due 3/16/2016
US	11738561	4/23/07	7480246	Issued	2nd annuity due 7/20/2016
US	12120533	5/14/08	7983287	Issued	1st annuity due 1/19/2015
US	10675717	9/30/03	7127547	Issued	3rd annuity due 4/24/2018
US	10675716	9/30/03	7290071	Issued	2nd annuity due

					4/30/2015
US	10895764	7/21/04	7391733	Issued	2nd annuity due 12/24/2015
US	12467228	May 15, 2009	8095700	Issued	
US	10037164	Dec 21, 2001	7159219	Issued	
US	10122997	Apr 12, 2002	7085794	Issued	
FR	3255916.3	Sep 22, 2003	1401129	Abandoned	
DE	3255916.3	Sep 22, 2003	1401129	Issued	
GB	3255916.3	Sep 22, 2003	1401129	Issued	
JP	2003-328142	Sep 19, 2003	4351508	Issued	
US	10378096	Feb 28, 2003	7257329	Issued	
US	60412870	Sep 23, 2002		Expired	
US	11359201	Feb 22, 2006	7328227	Issued	
US	11859437	Sep 21, 2007	8015226	Issued	
US	12187701	Aug 7, 2008	7808329	Issued	
US	13617229	Sep 14, 2012	8515376	Issued	
US	13968939	Aug 16, 2013	8811927	Issued	
US	12365444	Feb 4, 2009	8290462	Issued	
US	12324926	Nov 28, 2008		Pending	
US	12324927	Nov 28, 2008		Pending	
US	12324931	Nov 28, 2008		Pending	
US	12324934	Nov 28, 2008		Pending	
US	12362899	Jan 30, 2009		Pending	
US	12362879	Jan 30, 2009		Pending	
US	12362874	Jan 30, 2009		Pending	
US	9188625	Nov 9, 1998	6584159	Issued	
CA	2284232	Sep 28, 1999		Abandoned	
CN	99123681	Nov 8, 1999		Abandoned	
EP	99308675	Nov 2, 1999		Abandoned	
US	9206519	Dec 7, 1998	6202075	Issued	
GB	227953.7	Nov 29, 2002	2386716	Issued	
JP	2002-364518	Dec 17, 2002		Abandoned	
KR	10-2002-0081619	Dec 20, 2002		Abandoned	
TW	91134655	Nov 28, 2002		Abandoned	
US	10037040	Dec 21, 2001	7246102	Issued	
US	12428494	Apr 23, 2009	8311354	Issued	
US	9364411	Jul 30, 1999	6771695	Issued	
US	10438109	May 14, 2003	7949723	Issued	
US	8906818	Aug 6, 1997	6128370	Issued	
US	8959888	Oct 29, 1997	5953695	Issued	
EP	7757048.9	Feb 15, 2007		Pending	
JP	2009-548230	Feb 15, 2007	4841674	Issued	
KR	2009-7016031	Jul 30, 2009	10-1284963	Issued	
WO	PCT/US07/062210	Feb 15, 2007		Expired	
US	11669559	Jan 31, 2007	7729387	Issued	
US	11762808	Jun 14, 2007	7848242	Issued	
US	60904835	Mar 2, 2007		Expired	
US	12074043	Feb 29, 2008	7787374	Issued	
US	12074031	Feb 29, 2008	7773505	Issued	
US	60904646	Mar 2, 2007		Expired	
US	60904652	Mar 2, 2007		Expired	
US	12074155	Feb 29, 2008	7778171	Issued	
US	60904728	Mar 2, 2007		Expired	
US	12074154	Feb 29, 2008	7778167	Issued	

US	12082348	Apr 10, 2008	8094686	Issued	
US	11536177	Sep 28, 2006	8487947	Issued	
US	11098300	Apr 4, 2005	7206880	Issued	
US	11468838	Aug 31, 2006	8738977	Issued	
US	9821892	Mar 30, 2001	6925514	Issued	
GB	227956	Nov 29, 2002	2383493	Issued	
JP	2002-369110	Dec 20, 2002	4331471	Issued	
KR	10-2002-0082079	Dec 21, 2002	10-0904156	Issued	
TW	91134658	Nov 28, 2002	1286426	Issued	
US	10037067	Dec 21, 2001	8688853	Issued	
US	10074841	Feb 13, 2002	7079486	Issued	
US	8877909	Jun 18, 1997	6035048	Issued	
US	9154991	Sep 17, 1998	6442275	Issued	
US	9952292	Sep 14, 2001	7035397	Issued	
US	12399622	Mar 6, 2009	8171269	Issued	
US	12245437	Oct 3, 2008	8661179	Issued	
US	11409438	Apr 21, 2006	8214868	Issued	
EP	7250531.6	Feb 9, 2007	1853017	Completed	
DE	7250531.6	Feb 9, 2007	1853017	Issued	
GB	7250531.6	Feb 9, 2007	1853017	Issued	
JP	2007-120704	May 1, 2007	5208445	Issued	
KR	2007-0042542	May 2, 2007	10-1384910	Issued	
US	11415831	May 1, 2006	7769038	Issued	
EP	7250442.6	Feb 2, 2007		Pending	
JP	2007-120703	May 1, 2007	5164425	Issued	
KR	2007-0042539	May 2, 2007	10-1303390	Issued	
US	11415546	May 1, 2006	8228920	Issued	
JP	2001-337986	Nov 2, 2001	3880836	Issued	
US	10001654	Oct 31, 2001	7075936	Issued	
US	60245416	Nov 2, 2000		Expired	
US	10609781	Jun 30, 2003	7873506	Issued	
GB	228198.8	Dec 3, 2002	2386718	Issued	
JP	2002-369486	Dec 20, 2002		Abandoned	
KR	10-2002-0082104	Dec 21, 2002		Abandoned	
TW	91134630	Nov 28, 2002		Abandoned	
US	10026350	Dec 21, 2001	6668313	Issued	
US	10026351	Dec 21, 2001	7111289	Issued	
US	12246812	Oct 7, 2008	8160242	Issued	
US	12321643	Jan 23, 2009	8302083	Issued	
US	13628554	Sep 27, 2012		Pending	
US	9968476	Sep 28, 2001	7006627	Issued	
US	10637953	Aug 7, 2003	7283591	Issued	
US	11873328	Oct 16, 2007	7564379	Issued	
US	10884663	Jul 2, 2004	7512592	Issued	
US	12407706	Mar 19, 2009		Abandoned	
US	10831956	Apr 26, 2004	7275069	Issued	
US	11422312	Jun 5, 2006	7512634	Issued	
US	12402447	Mar 11, 2009	8015208	Issued	
US	13191947	Jul 27, 2011	8386530	Issued	
US	12485164	Jun 16, 2009	8488489	Issued	
WO	PCTRU2009000268	May 28, 2009		Abandoned	
US	13124474	Apr 15, 2011	8761916	Pending	
US				Completed	

WO	PCTRU2008000681	Oct 31, 2008		Abandoned
US	12530269	Sep 8, 2009	8515055	Issued
US	12465810	May 14, 2009	7839164	Issued
US	12902376	Oct 12, 2010	8063659	Issued
RU	2009119260	May 22, 2009		Closed
US	12624664	Nov 24, 2009	8397143	Issued
US	12815514	Jun 15, 2010	8381080	Issued
US	12730286	Mar 24, 2010	8411705	Issued
US	61355177	Jun 16, 2010		Expired
US	12845118	Jul 28, 2010	8504603	Issued
US	12768852	Apr 28, 2010	8401025	Issued
US	12910065	Oct 22, 2010	8719323	Issued
RU	2010140334	Oct 1, 2010		Abandoned
US	13163853	Jun 20, 2011	8780983	Issued
US	12822349	Jun 24, 2010	8650146	Issued
US	14156648	Jan 16, 2014		Pending
US	12849142	Aug 3, 2010	8516028	Issued
US	12839566	Jul 20, 2010	8332546	Issued
US	12494459	Jun 30, 2009	8169918	Issued
CN	201010240706.7	Jul 30, 2010	101989908	Issued
EP	10170642.2	Jul 23, 2010		Pending
JP	2010-171249	Jul 30, 2010		Pending
KR	2010-0073956	Jul 30, 2010		Pending
TW	99122756	Jul 9, 2010		Pending
US	12533568	Jul 31, 2009	8553814	Issued
US	13099956	May 3, 2011	8762136	Issued
US	12855201	Aug 12, 2010	8499139	Issued
CN	2011100007596	Jan 5, 2011		Pending
DE	100159540	Dec 22, 2010	602010016388.1	Issued
EP	10015954	Dec 22, 2010	2343844	Completed
FR	100159540	Dec 22, 2010	2343844	Issued
JP	2011-000880	Jan 6, 2011	5123403	Issued
KR	10-2011-0000364	Jan 4, 2011	10-1194596	Issued
TW	99145638	Dec 23, 2010	1427955	Issued
GB	100159540	Dec 22, 2010	2343844	Issued
US	61292534	Jan 6, 2010		Expired
US	12729606	Mar 23, 2010	8462819	Issued
US	12872722	Aug 31, 2010		Pending
RU	2011103938	Feb 3, 2011		Abandoned
US	13222050	Aug 31, 2011	8824667	Issued
US	13165056	Jun 21, 2011	8711941	Issued
RU	2010144450	Oct 29, 2010		Unknown
US	12882515	Sep 15, 2010	8661169	Issued
US	12875400	Sep 3, 2010	8607033	Issued
US	12953405	Nov 23, 2010	8365046	Issued
US	12914070	Oct 28, 2010	8527689	Issued
RU	2011107568	Mar 1, 2011		Pending
US	13231129	Sep 13, 2011		Pending
US	12974039	Dec 21, 2010	8503584	Issued
US	12907204	Oct 19, 2010	8850123	Issued
US	12965969	Dec 13, 2010	8446896	Issued
US	13655783	Oct 19, 2012		Pending
US	13755201	Jan 31, 2013		Pending

US	13247439	Sep 28, 2011	8595604	Issued	
US	12967155	Dec 14, 2010	8583874	Issued	
US	13031766	Feb 22, 2011	8688762	Issued	
US	13162734	Jun 17, 2011	8583993	Issued	
US	13661675	Oct 26, 2012		Pending	
RU	2011107569	Mar 1, 2011		Pending	
US	13233417	Sep 15, 2011	8804946	Issued	
US	13330436	Dec 19, 2011		Allowed	
RU	2011118860	May 12, 2011		Pending	
US	13295385	Nov 14, 2011	8817970	Issued	
US	13088422	Apr 18, 2011	8792511	Issued	
US	13159670	Jun 14, 2011	8595407	Issued	
US	13163198	Jun 17, 2011	8806137	Issued	
US	13453056	Apr 23, 2012		Allowed	
US	13343591	Jan 4, 2012	8798129	Issued	
US	13292377	Nov 9, 2011		Pending	
US	13437537	Apr 2, 2012	8656107	Issued	
US	13285353	Oct 31, 2011		Allowed	
US	13442169	Apr 9, 2012		Pending	
US	13587983	Aug 17, 2012	8842665	Issued	
US	13245098	Sep 26, 2011		Allowed	
US	13307393	Nov 30, 2011		Allowed	
US	13353117	Jan 18, 2012		Pending	
US	13353130	Jan 18, 2012		Allowed	
US	13712391	Dec 12, 2012		Pending	
EP	12842850.5	Oct 26, 2012		Pending	
KR	20147014146	Oct 26, 2012		Pending	
US	13701369	Apr 17, 2013		Pending	
US	14090555	Nov 26, 2013		Pending	
WO	PCTUS1262175	Oct 26, 2012		Pending	
CN	201280060773	Oct 26, 2012		Pending	
CN	201280060978	Oct 26, 2012		Pending	
CN	201280060979	Oct 26, 2012		Pending	
CN	201280060980	Oct 26, 2012		Pending	
CN	201280060981	Oct 26, 2012		Pending	
CN	201280060788	Oct 26, 2012		Pending	
EP	12844423	Oct 26, 2012		Pending	
EP	12842890	Oct 26, 2012		Pending	
EP	12843512	Oct 26, 2012		Pending	
EP	12846556	Oct 26, 2012		Pending	
EP	12843913	Oct 26, 2012		Pending	
US	13661357	Oct 26, 2012	8831133	Issued	
US	13661295	Oct 26, 2012		Pending	
US	13661351	Oct 26, 2012		Pending	
US	13661355	Oct 26, 2012		Pending	
US	13701415	Oct 26, 2012		Pending	
US	13701397	Oct 26, 2012		Pending	
US	13701374	Apr 24, 2013		Pending	
US	13701384	Jun 12, 2013		Pending	
US	13701376	Apr 24, 2013		Pending	
WO	PCT/US2012/062182	Oct 26, 2012		Pending	
WO	PCT/US2012/062186	Oct 26, 2012		Pending	
WO	PCT/US2012/062191	Oct 26, 2012		Pending	

WO	PCT/US2012/062195	Oct 26, 2012		Pending	
WO	PCT/US2012/062179	Oct 26, 2012		Pending	
US	13681328	Nov 21, 2012		Pending	
US	13684922	Nov 26, 2012		Pending	
US	13710582	Dec 11, 2012		Pending	
US	13718948	Dec 18, 2012		Pending	
US	13718966	Dec 18, 2012		Pending	
US	13747538	Jan 23, 2013		Pending	
US	13755215	Jan 31, 2013		Pending	
US	13755252	Jan 31, 2013		Pending	
US	13400212	Feb 20, 2012		Allowed	
US	13444186	Apr 11, 2012	8782504	Issued	
US	14305585	Jun 16, 2014		Pending	
US	13465179	May 7, 2012		Pending	
US	13478561	May 23, 2012		Pending	
US	13456484	Apr 26, 2012		Pending	
US	13466389	May 8, 2012		Pending	
US	13456495	Apr 26, 2012		Allowed	
US	13565083	Aug 2, 2012	8598910	Issued	
US	14052911	Oct 14, 2013		Pending	
US	13692118	Dec 3, 2012		Pending	
US	13748879	Jan 24, 2013		Pending	
US	61773412	Mar 6, 2013		Expired	
US	13795350	Mar 12, 2013		Pending	
CN	2014100855546	Mar 10, 2014		Pending	
EP	14157543.1	Mar 3, 2014		Pending	
JP	2014-014347	Jan 29, 2014		Pending	
KR	10-2014-0027972	Mar 10, 2014		Pending	
TW	103104999	Feb 14, 2014		Pending	
US	61775928	Mar 11, 2013		Expired	
US	13796153	Mar 12, 2013		Pending	
US	61858855	Jul 26, 2013		Expired	
US	13955446	Jul 31, 2013		Pending	
US	61859340	Jul 29, 2013		Expired	
US	13959978	Aug 6, 2013		Pending	
US	14136203	Dec 20, 2013		Pending	
US	61929640	Jan 21, 2014		Pending	
US	14174183	Feb 6, 2014		Pending	
US	9549753	Apr 14, 2000	6526429	Issued	
US	10903954	Jul 30, 2004	7680124	Issued	
US	10998686	Nov 29, 2004	7352752	Issued	
US	11142562	May 31, 2005	7480821	Issued	
GB	0228197	Dec 3, 2002	2384408	Issued	
JP	2002-364523	Dec 17, 2002		Unknown	
KR	10-2002-0081742	Dec 20, 2002		Abandoned	
TW	91134652	Nov 28, 2002		Unknown	
US	10026353	Dec 21, 2001		Abandoned	
US	10672656	Sep 26, 2003	8315567	Issued	
US	12187692	Aug 7, 2008	7944830	Issued	
US	11047387	Jan 31, 2005	7634024	Issued	
US	12117901	May 9, 2008	8331552	Issued	
US	13667331	Nov 2, 2012		Pending	
US	12117943	May 9, 2008	8411846	Issued	

US	10833560	Apr 28, 2004	7831979	Issued	
RU	2011115796	Apr 22, 2011		Pending	
US	13280607	Oct 25, 2011		Pending	
US	13566146	Aug 3, 2012		Pending	
RU	2012102842	Jan 27, 2012		Unknown	
US	13800167	Mar 13, 2013		Pending	
RU	2012137095	Aug 30, 2012		Unknown	
US	11970340	Jan 7, 2008	7903680	Issued	
US	13229774	Sep 12, 2011	8291133	Issued	
US	13227482	Sep 8, 2011	8291138	Issued	
US	12241108	Sep 30, 2008	8041856	Issued	
IN	967MAS99	9/30/1999		Abandoned	N/A
JP	2014539055	10/26/2012		Pending	
JP	2014539057	10/26/2012		Pending	
JP	2014539058	10/26/2012		Pending	
JP	2014539060	10/26/2012		Pending	
JP	2014539061	10/26/2012		Pending	
JP	2014539063	10/26/2012		Pending	
KR	20147014067	10/26/2012		Pending	
KR	20147014118	10/26/2012		Pending	
KR	20147014136	10/26/2012		Pending	
KR	20147014148	10/26/2012		Pending	
KR	20147014151	10/26/2012		Pending	
US	60014264	3/28/1996		Expired	N/A
US	60064082	11/3/1997		Expired	N/A
US	60107096	11/5/1998		Expired	N/A
US	60112379	12/14/1998		Expired	N/A
US	60137542	6/4/1999		Expired	N/A
US	60168989	12/3/1999		Expired	N/A
US	60208755	6/2/2000		Expired	N/A
US	60285930	4/24/2001		Expired	N/A
US	60381870	1/0/1900		Abandoned	N/A
US	60387394	1/0/1900		Expired	N/A
US	60472176	5/21/2003		Expired	N/A
US	60658945	3/4/2005		Expired	N/A
US	60915013	4/30/2007		Expired	N/A
US	61162409	3/23/2009		Expired	N/A
US	61313189	3/12/2010		Expired	N/A
US	61313219	3/12/2010		Expired	N/A
US	61313399	3/12/2010		Expired	N/A
US	61388962	10/1/2010		Expired	N/A
US	61412019	11/10/2010		Expired	N/A
US	61421243	12/9/2010		Expired	N/A
US	61486811	5/17/2011		Expired	N/A
US	61552242	10/27/2011		Expired	N/A
US	61564811	11/29/2011		Expired	N/A
US	61580170	12/23/2011		Expired	N/A
US	61580183	12/23/2011		Expired	N/A
US	61580219	12/24/2011		Expired	N/A
US	61732129	11/30/2012		Expired	N/A
US	61732171	11/30/2012		Expired	N/A
US	61774646	3/8/2013		Expired	N/A
US				Abandoned	N/A

**SCHEDULE 2 TO PATENT ASSIGNMENT**

**DISCLOSED PATENTS**

Listed Patent US5905711 is subject to a terminal disclaimer over patents not owned by Assignor