

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3993417

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GENERAL INSTRUMENT CORPORATION	04/15/2013
RECEIVING PARTY DATA	
Name:	GENERAL INSTRUMENT HOLDINGS, INC.
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14859599
CORRESPONDENCE DATA	
Fax Number:	(650)938-5200
<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>	
Phone:	415-875-2358
Email:	ldean@fenwick.com
Correspondent Name:	DANIEL R. BROWNSTONE
Address Line 1:	FENWICK & WEST LLP
Address Line 2:	801 CALIFORNIA STREET
Address Line 4:	MOUNTAIN VIEW, CALIFORNIA 94041
ATTORNEY DOCKET NUMBER:	24207-30622/US
NAME OF SUBMITTER:	DANIEL R. BROWNSTONE
SIGNATURE:	/Daniel R. Brownstone 46581/
DATE SIGNED:	08/04/2016
Total Attachments: 29	
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ASSIGNMENT

WHEREAS, General Instrument Corporation, a corporation organized under the laws of Delaware, having a place of business at 101 Tournament Drive, Horsham, PA 19044 ("ASSIGNOR"), is the owner of right, title and interest in and to (a) the patents and/or patent applications listed in the attached Schedule A (the "LISTED PATENTS"), (b) any patents or patent applications (i) to which any of the LISTED PATENTS claims priority, (ii) that include a claim of priority to any patent or patent application to which any of the LISTED PATENTS claims priority, (iii) for which any of the LISTED PATENTS forms a basis for priority, and/or (iv) that form a basis for priority for any patent or patent application for which any of the LISTED PATENTS also forms a basis for priority; (c) reissues, reexaminations, extensions, continuations, continuations in part (if filed by or for ASSIGNEE), continuing prosecution applications, requests for continuing examinations, divisions, and registrations of any item in any of the foregoing categories (a) and (b); (d) patents or patent applications that are subject to a terminal disclaimer with any item in any of the foregoing categories (a) through (c); and (e) national (of any country of origin) and multinational counterparts of any item in any of the foregoing categories (a) through (d), including, without limitation, certificates of invention and utility models; in each case of any item in any of the foregoing categories (b) through (e), whether or not expressly listed as LISTED PATENTS and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, abandoned or the like (the LISTED PATENTS, together with all of the items in the foregoing categories (b)-(e), collectively, the "PATENTS AND PATENT APPLICATIONS").

WHEREAS, General Instrument Holdings, Inc., a corporation organized under the laws of Delaware, having a place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043 ("ASSIGNEE"), desires to obtain the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS.

NOW, THEREFORE, in consideration of the good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby assigns and transfers to ASSIGNEE all of ASSIGNOR's right, title and interest throughout the world in, to and under the PATENTS AND PATENT APPLICATIONS, including the inventions claimed therein, and all rights of action, powers, and benefits arising

from ownership of the PATENTS AND PATENT APPLICATIONS, including without limitation,

(A) the right to sue and recover for damages or other compensation and the right to sue and obtain other legal and equitable remedies in respect of all causes of action arising before, on, or after the date of this agreement (such agreement, the "ASSIGNMENT"), including without limitation in respect of past, present or future infringements, and the right to fully and entirely stand in the place of the ASSIGNOR in all matters related thereto, and ASSIGNOR hereby also assigns and transfers to ASSIGNEE any claims for past use or infringement of the PATENTS AND PATENT APPLICATIONS, including without limitation claims for damages and accounting under applicable law, (B) the right to file and prosecute in its own name, wherever so permitted by law, patent applications, including corresponding applications, based on any of the PATENTS AND PATENT APPLICATIONS and to prosecute, make filings with respect to, defend and maintain the PATENTS AND PATENT APPLICATIONS before any patent office and governmental authority, including without limitation by filing reissues, reexaminations, divisions, continuations, continuations-in-part, substitutes, extensions and all other applications relating thereto, and (C) the right to claim priority to any of the PATENTS AND PATENT APPLICATIONS pursuant to the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.

ASSIGNEE may apply for and receive patents in its own name wherever so permitted by law and ASSIGNOR shall, when requested by ASSIGNEE, execute or cause to be executed all oaths, assignments, and powers of attorney to ASSIGNEE or to agents and legal representatives of ASSIGNEE, and all other papers necessary and proper to carry out the intent and purpose of this ASSIGNMENT and to perfect ASSIGNEE's title in, to and under the PATENTS AND PATENT APPLICATIONS, and ASSIGNOR further agrees:

a. to execute all papers necessary in connection with the PATENTS AND PATENT APPLICATIONS, and any continuing, divisional, reissue, reexamination or other corresponding application thereof and to execute any separate assignment in connection with such application as ASSIGNEE may deem necessary or expedient; and

b. to perform all affirmative acts which may be necessary to obtain a grant of a valid patent to ASSIGNEE on any of the PATENTS AND PATENT APPLICATIONS and on any

continuation, division, reissue or reexamination of any of the PATENTS AND PATENT APPLICATIONS.

Notwithstanding the foregoing, ASSIGNEE shall be solely responsible for all costs whatsoever, including but not limited to attorneys' fees and patent office fees in any jurisdiction, associated with the perfection of ASSIGNEE's right, title, and interest in and to the PATENTS AND PATENT APPLICATIONS and recordation and/or registration of this ASSIGNMENT or any other document evidencing the assignment of the PATENTS AND PATENT APPLICATIONS.

ASSIGNOR retains no ownership rights in the PATENTS AND PATENT APPLICATIONS, the inventions, and the rights transferred to ASSIGNEE hereunder.

ASSIGNEE acknowledges that the PATENTS AND PATENT APPLICATIONS remain subject to covenants applicable to them granted prior to December 19, 2012 or, subject to that certain Acquisition Agreement, dated as of December 19, 2012 by and among ARRIS Group, Inc. and certain of its subsidiaries and ASSIGNOR, ASSIGNEE and/or certain of their affiliates, after December 19, 2012 and prior to the date hereof, in the ordinary course of business consistent with past practice (including in connection with settlement of disputes).

This ASSIGNMENT shall be binding upon and shall inure to the benefit of the parties and their respective successors and assigns.

This ASSIGNMENT shall be governed by, and construed in accordance with, the laws of the United States in respect to patent issues and in all other respects by the laws of the State of California, without giving effect to the conflict of laws rules thereof.

ASSIGNEE ACKNOWLEDGES THAT THE PATENTS AND PATENT APPLICATIONS ARE CONVEYED WITHOUT ANY REPRESENTATION, WARRANTY OR GUARANTY PURSUANT TO THIS ASSIGNMENT, INCLUDING WITHOUT LIMITATION AS TO THE CONDITION OF TITLE, ENFORCEABILITY, SUITABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, MERCHANTABILITY, VALIDITY, REGISTRABILITY OR ANY OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED OR BY OPERATION OF LAW.

This ASSIGNMENT may be signed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, ASSIGNOR has caused this ASSIGNMENT to be executed by its
duly authorized representative on this 15th day of April, 2013.

General Instrument Corporation

By: [Signature]
Printed Name: Brian P. Farley
Title: Assistant Secretary
Date: April 15, 2013

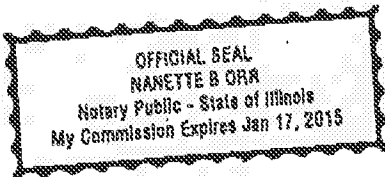
State of ILLINOIS
County of LAKE

On April 15, 2013 before me personally appeared Brian P. Farley
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.

(Seal)



[Signature]
Notary Public

My commission expires: 01/17/2015

ASSIGNEE hereby accepts receipt of the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS.

General Instrument Holdings, Inc.

By:

Katherine Stephens

Printed Name: Katherine Stephens

Title: CEO, President and Secretary

Date: May 22, 2013

State of California

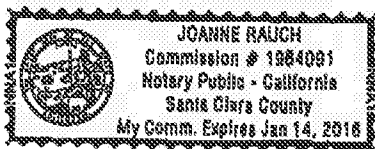
County of Santa Clara

On 5/22/13, before me personally appeared Katherine Stephens, 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.

(Seal)



Joanne Rauch
Notary Public

My commission expires: 1/14/16

SCHEDULE A

No.	Application Number	Filing Date	Patent Number	Issue Date	Country
1	11/636423	12/7/2006	7577915	8/18/2009	USA
2	11/699751	1/29/2007	7680745	3/16/2010	USA
3	12/694007	1/26/2010	7953678	5/31/2011	USA
4	09/663551	9/18/2000	7064772	6/20/2006	USA
5	09/663554	9/18/2000	6904460	6/7/2005	USA
6	09/664179	9/18/2000	6836806	12/28/2004	USA
7	11/077814	3/11/2005	7747772	6/29/2010	USA
8	09/664148	9/18/2000	6879998	4/12/2005	USA
9	09/664509	9/18/2000	6658000	12/2/2003	USA
10	09/664294	9/18/2000	7213062	5/1/2007	USA
11	10/002290	11/28/2001	7035867	4/25/2006	USA
12	10/730748	12/8/2003	7240143	7/3/2007	USA
13	11/143428	6/1/2005	8010985	8/30/2011	USA
14	11/258309	10/25/2005	8144719	3/27/2012	USA
15	11/652924	1/12/2007	7924456	4/12/2011	USA
16	11/652931	1/12/2007	8145869	3/27/2012	USA
17	12/224829	6/3/2007			USA
18	10/978215	10/28/2004	7412149	8/12/2008	USA
19	12/556104	9/9/2009			USA
20	13/708570	12/7/2012			USA
21	11/037446	1/18/2005			USA
22	11/037439	1/18/2005	8351514	1/8/2013	USA
23	10/724943	12/1/2003	7614069	11/3/2009	USA
24	10/933011	9/2/2004	7551738	6/23/2009	USA
25	10/775907	2/10/2004	7418011	8/26/2008	USA
26	10/453211	6/3/2003	8175154	5/8/2012	USA
27	10/714236	11/14/2003	7920623	4/5/2011	USA
28	11/021168	12/23/2004	7818401	10/19/2010	USA
29	10/755429	1/12/2004	7675970	3/9/2010	USA
30	10/719512	11/21/2003	7196734	3/27/2007	USA
31	10/820595	4/8/2004	7502368	3/10/2009	USA
32	10/743246	12/22/2003			USA
33	11/030034	1/6/2005	7447231	11/4/2008	USA
34	10/798706	3/11/2004	7289728	10/30/2007	USA
35	10/937909	9/10/2004	7616654	11/10/2009	USA
36	10/838413	5/4/2004	7765600	7/27/2010	USA
37	10/776982	2/11/2004	7916811	3/29/2011	USA
38	11/026413	12/30/2004	7929483	4/19/2011	USA
39	11/027206	12/30/2004	8156560	4/10/2012	USA

No.	Application Number	Filing Date	Patent Number	Issue Date	Country
40	10/852361	5/24/2004			USA
41	10/899859	7/26/2004	7526001	4/28/2009	USA
42	11/030859	1/7/2005	7454616	11/18/2008	USA
43	11/962880	12/21/2007	8068175	11/29/2011	USA
44	11/025029	12/29/2004	7450180	11/11/2008	USA
45	10/928236	8/27/2004	7414984	8/19/2008	USA
46	10/845000	5/13/2004	7486623	2/3/2009	USA
47	10/889502	7/12/2004	7733919	6/8/2010	USA
48	11/025304	12/29/2004	7386128	6/10/2008	USA
49	10/952116	9/28/2004	7606303	10/20/2009	USA
50	10/999732	11/30/2004	7512138	3/31/2009	USA
51	10/864942	6/10/2004	7916633	3/29/2011	USA
52	10/872688	6/21/2004	7765566	7/27/2010	USA
53	11/025164	12/29/2004	7262811	8/28/2007	USA
54	11/026406	12/30/2004	7746928	6/29/2010	USA
55	10/999670	11/30/2004	7720350	5/18/2010	USA
56	11/142821	6/1/2005	7784071	8/24/2010	USA
57	11/023775	12/28/2004	7653129	1/26/2010	USA
58	11/023741	12/28/2004	7424229	9/9/2008	USA
59	11/201675	8/11/2005	7865723	1/4/2011	USA
60	11/024043	12/28/2004			USA
61	11/302777	12/14/2005	7403838	7/22/2008	USA
62	11/078937	3/11/2005	7706443	4/27/2010	USA
63	11/274653	11/15/2005	7307523	12/11/2007	USA
64	11/302445	12/13/2005	7451361	11/11/2008	USA
65	11/286497	11/23/2005	7555696	6/30/2009	USA
66	11/255113	10/20/2005	7764793	7/27/2010	USA
67	11/433278	5/12/2006	7809282	10/5/2010	USA
68	11/218017	9/1/2005	7742771	6/22/2010	USA
69	11/300905	12/15/2005	7831887	11/9/2010	USA
70	11/207979	8/19/2005			USA
71	11/616348	12/27/2006	7877600	1/25/2011	USA
72	11/321210	12/29/2005			USA
73	11/300117	12/14/2005	7590414	9/15/2009	USA
74	11/313981	12/21/2005	7705874	4/27/2010	USA
75	11/294885	12/2/2005	7634296	12/15/2009	USA
76	11/316235	12/22/2005	7813653	10/12/2010	USA
77	11/257230	10/24/2005	8275003	9/25/2012	USA
78	11/302446	12/13/2005			USA
79	11/338556	1/24/2006	7492253	2/17/2009	USA
80	11/564606	11/29/2006	8050324	11/1/2011	USA
81	11/312219	12/20/2005	7697752	4/13/2010	USA
82	11/301855	12/13/2005	7796550	9/14/2010	USA

No.	Application Number	Filing Date	Patent Number	Issue Date	Country
83	11/609648	12/12/2006			USA
84	11/550027	10/17/2006			USA
85	11/316130	12/22/2005	8406426	3/26/2013	USA
86	11/313462	12/21/2005	7923938	4/12/2011	USA
87	11/358612	2/21/2006			USA
88	11/323517	12/30/2005	8176534	5/8/2012	USA
89	11/301925	12/13/2005			USA
90	11/539786	10/9/2006	7564901	7/21/2009	USA
91	11/616347	12/27/2006	7653130	1/26/2010	USA
92	11/316493	12/22/2005			USA
93	11/300907	12/15/2005	7672539	3/2/2010	USA
94	11/620768	1/8/2007	7843824	11/30/2010	USA
95	11/623783	1/17/2007	8116738	2/14/2012	USA
96	11/294032	12/5/2005	7567664	7/28/2009	USA
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98	11/300118	12/14/2005			USA
99	11/610806	12/14/2006	7634565	12/15/2009	USA
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101	11/616357	12/27/2006	7769370	8/3/2010	USA
102	12/345731	12/30/2008	8384756	2/26/2013	USA
103	11/613868	12/20/2006			USA
104	11/477878	6/29/2006	7636043	12/22/2009	USA
105	11/558243	11/9/2006	7729357	6/1/2010	USA
106	11/471242	6/20/2006	7729273	6/1/2010	USA
107	11/616352	12/27/2006			USA
108	11/561931	11/21/2006	7590886	9/15/2009	USA
109	11/612287	12/18/2006			USA
110	11/617358	12/28/2006	7822973	10/26/2010	USA
111	11/469072	8/31/2006	7788394	8/31/2010	USA
112	11/609139	12/11/2006	7774015	8/10/2010	USA
113	11/566743	12/5/2006			USA
114	11/460121	7/26/2006			USA
115	11/612281	12/18/2006	8045688	10/25/2011	USA
116	11/610180	12/13/2006	7787833	8/31/2010	USA
117	11/470034	9/5/2006	7742697	6/22/2010	USA
118	11/374447	3/13/2006	7672310	3/2/2010	USA
119	11/613823	12/20/2006	7876697	1/25/2011	USA
120	11/446668	6/5/2006	7953668	5/31/2011	USA
121	11/411696	4/26/2006	7724894	5/25/2010	USA
122	11/697061	4/5/2007	7694185	4/6/2010	USA
123	11/468132	8/29/2006	7706414	4/27/2010	USA
124	11/960395	12/19/2007			USA
125	13/677282	11/14/2012			USA

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126	11/614321	12/21/2006	7685617	3/23/2010	USA
127	09/712096	11/14/2000	6731757	5/4/2004	USA
128	10/639146	8/11/2003	7292286	11/6/2007	USA
129	11/935317	11/5/2007	7724309	5/25/2010	USA
130	09/574707	5/18/2000	7003275	2/21/2006	USA
131	11/347327	2/6/2006	7646264	1/12/2010	USA
132	11/609589	12/12/2006	8044989	10/25/2011	USA
133	11/685616	3/13/2007	7389010	6/17/2008	USA
134	11/465011	8/16/2006	7257280	8/14/2007	USA
135	11/468974	8/31/2006	7542422	6/2/2009	USA
136	11/625417	1/22/2007	7397402	7/8/2008	USA
137	11/746370	5/9/2007	8346930	1/1/2013	USA
138	11/614259	12/21/2006	7974404	7/5/2011	USA
139	11/612832	12/19/2006	7271948	9/18/2007	USA
140	11/737813	4/20/2007	7911513	3/22/2011	USA
141	11/753289	5/24/2007	8284761	10/9/2012	USA
142	11/829131	7/27/2007	8159962	4/17/2012	USA
143	11/829134	7/27/2007	8018872	9/13/2011	USA
144	11/616948	12/28/2006			USA
145	11/962953	12/21/2007			USA
146	11/739868	4/25/2007	8140439	3/20/2012	USA
147	12/101950	4/11/2008			USA
148	11/760035	6/8/2007			USA
149	11/969648	1/4/2008			USA
150	11/614330	12/21/2006			USA
151	11/616952	12/28/2006	7362498	4/22/2008	USA
152	11/947902	11/30/2007			USA
153	12/207557	9/10/2008			USA
154	11/608488	12/8/2006			USA
155	13/654327	10/17/2012			USA
156	11/747584	5/11/2007	8316302	11/20/2012	USA
157	11/769002	6/27/2007	8368741	2/5/2013	USA
158	11/734494	4/12/2007	7973721	7/5/2011	USA
159	11/613841	12/20/2006			USA
160	11/735142	4/13/2007			USA
161	11/752781	5/23/2007	7873285	1/18/2011	USA
162	11/766487	6/21/2007			USA
163	11/740690	4/26/2007	7805137	9/28/2010	USA
164	11/782721	7/25/2007			USA
165	11/951815	12/6/2007			USA
166	12/808282	12/16/2008			USA
167	13/571279	8/9/2012			USA
168	12/242150	9/30/2008	8266684	9/11/2012	USA

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169	11/782993	7/25/2007	8077850	12/13/2011	USA
170	11/868194	10/5/2007			USA
171	11/853555	9/11/2007			USA
172	12/023471	1/31/2008			USA
173	12/108719	4/24/2008			USA
174	11/843312	8/22/2007			USA
175	11/864072	9/28/2007	7804770	9/28/2010	USA
176	11/697071	4/5/2007	7920795	4/5/2011	USA
177	12/209833	9/12/2008			USA
178	12/337269	12/17/2008			USA
179	11/948363	11/30/2007			USA
180	12/184228	7/31/2008	8122476	2/21/2012	USA
181	13/356674	1/24/2012			USA
182	12/059081	3/31/2008	7792165	9/7/2010	USA
183	11/969036	1/3/2008			USA
184	12/471852	5/26/2009	8379632	2/19/2013	USA
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200	12/345741	12/30/2008			USA
201	12/549468	8/28/2009			USA
202	12/568787	9/29/2009			USA
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204	12/489005	6/22/2009			USA
205	12/620575	11/17/2009			USA
206	12/342722	12/23/2008	8000254	8/16/2011	USA
207	12/982488	12/30/2010			USA
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218	12/620867	11/18/2009			USA
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221	12/345002	12/29/2008	8185049	5/22/2012	USA
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224	12/895059	9/30/2010			USA
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226	12/847035	7/30/2010			USA
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230	12/643252	12/21/2009			USA
231	12/971161	12/17/2010			USA
232	12/634448	12/9/2009			USA
233	12/982934	12/31/2010			USA
234	12/623516	11/23/2009			USA
235	12/650943	12/31/2009	8321663	11/27/2012	USA
236	12/635196	12/10/2009			USA
237	12/960610	12/6/2010			USA
238	13/253353	10/5/2011			USA
239	12/980432	12/29/2010			USA
240	13/329437	12/19/2011			USA
241	12/761822	4/16/2010			USA
242	12/952792	11/23/2010			USA
243	12/814554	6/14/2010			USA
244	12/974992	12/21/2010			USA
245	12/974972	12/21/2010			USA
246	12/468843	5/19/2009			USA
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439	13/570098	8/8/2012			USA
440	13/588885	8/17/2012			USA
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444	13/593680	8/24/2012			USA
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450	13/681797	11/20/2012			USA
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453	13/517627	6/14/2012			USA
454	13/562274	7/30/2012			USA
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482	13/722625	12/20/2012			USA
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486	13/593740	8/24/2012			USA
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488	13/538108	6/29/2012			USA
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491	61/676817	7/27/2012			USA
492	61/672762	7/18/2012			USA
493	61/676809	7/27/2012			USA
494	61/707947	9/29/2012			USA
495	61/718198	10/25/2012			USA
496	61/707949	9/29/2012			USA
497	61/704651	9/24/2012			USA
498	13/745486	1/18/2013			USA
499	13/745508	1/18/2013			USA
500	13/745660	1/18/2013			USA
501	13/745549	1/18/2013			USA
502	13/791066	3/8/2013			USA
503	13/750650	1/25/2013			USA
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524	13/766676	2/13/2013			USA
525	61/679778	8/5/2012			USA
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527	61/637237	4/23/2012			USA
528	61/668286	7/5/2012			USA
529	61/638480	4/25/2012			USA
530	61/649227	5/18/2012			USA
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532	13/645781	10/5/2012			USA
533	13/568198	8/7/2012			USA
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535	13/528922	6/21/2012			USA
536	61/646731	5/14/2012			USA
537	61/649115	5/18/2012			USA
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541	13/646798	10/8/2012			USA
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