

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM374861

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	Security Agreement		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Hillcrest Laboratories, Inc.		10/02/2014	CORPORATION: DELAWARE
RECEIVING PARTY DATA			
Name:	Multiplier Capital, LP		
Street Address:	2 Wisconsin Circle		
Internal Address:	Suite 700		
City:	Chevy Chase		
State/Country:	MARYLAND		
Postal Code:	20815		
Entity Type:	LIMITED PARTNERSHIP: DELAWARE		
PROPERTY NUMBERS Total: 5			
Property Type	Number	Word Mark	
Registration Number:	3500162	FREESPACE	
Registration Number:	3765461	HILLCREST HOME	
Registration Number:	3753329	HILLCREST LABORATORIES	
Registration Number:	3895426	KYLO	
Serial Number:	86282317	MAGNICAL	
CORRESPONDENCE DATA			
Fax Number:	8004947512		
<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:	202-370-4750		
Email:	ipteam@nationalcorp.com		
Correspondent Name:	Dwayne C. Houston		
Address Line 1:	1025 Vermont Avenue NW, Suite 1130		
Address Line 2:	National Corporate Research, Ltd.		
Address Line 4:	Washington, D.C. 20005		
ATTORNEY DOCKET NUMBER:	F161527		
NAME OF SUBMITTER:	Robin Dunn		
SIGNATURE:	/Robin Dunn/		
DATE SIGNED:	02/29/2016		

OP \$140.00 3500162

Total Attachments: 20

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of October 2, 2014, by and between **Multiplier Capital, LP** ("Multiplier") and **Hillcrest Laboratories, Inc.**, a Delaware corporation ("Grantor"), with reference to the following facts:

A. Multiplier and Grantor are parties to that certain Loan and Security Agreement dated October 2, 2014 (as amended from time to time, the "Loan Agreement"). (Capitalized terms used herein have the meaning assigned in the Loan Agreement.)

B. Pursuant to the Loan Agreement, Grantor has granted to Multiplier a security interest in all of the Collateral. The Collateral includes without limitation all Intellectual Property (including without limitation the Intellectual Property described herein).

Grantor agrees as follows:

1. To secure performance of all of its "Obligations" as defined in the Loan Agreement, Grantor grants to Multiplier a security interest in all of Grantor's right, title and interest in Grantor's Intellectual Property, including without limitation (i) the trademarks and servicemarks listed on Schedule A hereto, whether registered or not, and all applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, and (ii) the patents and patent applications listed on Schedule B hereto and all like protections including, without limitation, all improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same, and (iii) all copyrights, maskworks, software, computer programs and other works of authorship, including without limitation those registered with the United States Copyright Office and listed on Schedule C hereto, and all extensions and renewals thereof, and (iv) all rights to recover for past or future infringement of any of the foregoing, and (v) all right, title and interest in and to any and all present and future license agreements with respect to any of the foregoing, and (vi) all present and future accounts, accounts receivable and other rights to payment arising from, in connection with or relating to any of the foregoing; provided that the foregoing shall not include any Collateral excluded under Section 2.1 of the Loan Agreement.

2. Grantor represents and warrants that (i) listed on Schedule A hereto are all trademark registrations and pending registrations owned by Grantor or licensed to Grantor, (ii) listed on Schedule B are all patents and patent applications owned by Grantor or licensed to Grantor (excluding the Patent Licensing Agreement between Grantor and Thomson Licensing SAS dated as of July 1, 2006), and (iii) listed on Schedule C are all copyrights, software, computer programs, mask works, and other works of authorship owned by Grantor which are registered with the United States Copyright Office.

3. Grantor shall not, hereafter, register any maskworks, software, computer programs or other works of authorship subject to United States copyright protection with the United States Copyright Office without first complying with the following: (i) providing Secured Party with at least 15 days prior written notice thereof, (ii) providing Secured Party with a copy of the application for any such registration and (iii) executing and filing such other instruments, and taking such further actions as Secured Party may reasonably request from time to time to perfect or continue the perfection of Secured Party's interest in the Collateral, including without limitation the filing with the United States Copyright Office, simultaneously with the filing by Grantor of the application for any such registration, of a copy of this

Agreement or a Supplement hereto in form acceptable to Secured Party identifying the maskworks, software, computer programs or other works of authorship being registered and confirming the grant of a security interest therein in favor of Secured Party.

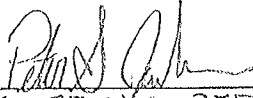
4. This Agreement is being executed and delivered pursuant to the Loan Agreement; nothing herein limits any of the terms or provisions of the Loan Agreement, and Multiplier's rights hereunder and under the Loan Agreement are cumulative. This Agreement, the Loan Agreement and the other Loan Documents set forth in full all of the representations and agreements of the parties with respect to the subject matter hereof and supersede all prior discussions, oral representations, oral agreements and oral understandings between the parties. This Agreement may not be modified or amended, nor may any rights hereunder be waived, except in a writing signed by the parties hereto. In the event of any litigation between the parties based upon, arising out of, or in any way relating to this Agreement, the prevailing party shall be entitled to recover all of his costs and expenses (including without limitation attorneys' fees) from the non-prevailing party. This Agreement and all acts, transactions, disputes and controversies arising hereunder or relating hereto, and all rights and obligations of Multiplier and Grantor shall be governed by, and construed in accordance with the internal laws (and not the conflict of laws rules) of the State of New York.

[NO FURTHER TEXT ON THIS PAGE]

Address of Grantor:

15245 Shady Grove Road, #400
Rockville, MD 20850

Hillcrest Laboratories, Inc., a Delaware
corporation

By 
Title TREASURER

Address of Multiplier:

2 Wisconsin Circle, Suite 700
Chevy Chase, MD 20815

Multiplier Capital, LP

By: Multiplier Capital GP, LLC,
Its General Partner


By _____
Title _____

[Signature Page---Intellectual Property Security Agreement]

Address of Grantor:

15245 Shady Grove Road, #400
Rockville, MD 20850

Hillcrest Laboratories, Inc., a Delaware
corporation

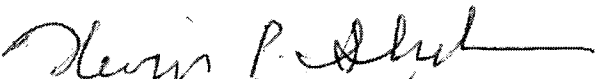
By 
Title Managing Member

Address of Multiplier:

2 Wisconsin Circle, Suite 700
Chevy Chase, MD 20815

Multiplier Capital, LP

By: Multiplier Capital GP, LLC,
Its General Partner

By 
Title Authorized Signatory

[Signature Page—Intellectual Property Security Agreement]

SCHEDULE A

Trademarks

<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
Application for MAGNICAL	86282317	05/15/2014
Registration for FREESPACE	3500162	09/09/2008
Registration for HOME	3577897	02/17/2009
Registration for HILLCREST HOME	3765461	03/23/2010
Registration for HILLCREST LABORATORIES	3753329	02/23/2010
Registration for KYLO	3895426	12/21/2010

SCHEDULE B

Patents and Patent Applications

<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
001CN	Chinese Patent for “Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items”	ZL200480012477.6	01/21/2009
001CN.DIV	Chinese Divisional Patent for “Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items”	ZL200810181100.3	05/30/2012
001EP	European Application for “Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items”	04 760 954.0	11/02/2005
001EP.DIV	European Divisional Application for “Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items”	13 005 551.0	11/18/2013
001IN	Indian Patent for “Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items”	233754	04/06/2009
001IN.DIV	Indian Divisional Application for “Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items”	9300/DELNP/2008	11/06/2008
001 KR	Korean Patent for “Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items”	10-0817394	03/20/2008
001 KR.DIV	Korean Patent for “Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items”	10-0994011	11/05/2010
002	U.S. Patent for “Methods and Systems for Generating a Zoomable Graphical User Interface”	8,555,165	10/08/2013

<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
003	U.S. Patent for "Systems and Methods for Node Tracking and Notification in a Control Framework Including a Zoomable Graphical User Interface"	8,601,396	12/03/2013
003CON	U.S. Application for "Systems and Methods for Node Tracking and Notification in a Control Framework Including a Zoomable Graphical User Interface"	14/089,030	11/25/2013
004	U.S. Patent for "Systems and Methods for Resolution Consistent Semantic Zooming"	8,046,705	10/25/2011
005	U.S. Patent for "Metadata Brokering Server"	7,493,341	02/17/2009
005CON1	U.S. Patent for "Metadata Brokering Server"	8,161,082	04/17/2012
005CON2	U.S. Patent for "Metadata Brokering Server"	8,412,748	04/02/2013
005CON3	U.S. Application for "Metadata Brokering Server"	13/847,114	03/19/2013
005CN	Chinese Patent for "Metadata Brokering Server"	ZL200580002649.6	12/14/2011
005CN.DIV	Chinese Divisional Application for "Metadata Brokering Server"	200910215510.X	12/29/2009
005EP	European Application for "Metadata Brokering Server"	05 705 760.6	07/14/2006
005EP.DIV	European Divisional Application for "Metadata Brokering Server"	10 011 832.2	09/29/2010
005IN	Indian Application for "Metadata Brokering Server"	4024/DELNP/2006	07/12/2006
005IN.DIV	Indian Divisional Application for "Metadata Brokering Server"	7453/DELNP/2013	08/23/2013
005JP	Japanese Patent for "Metadata Brokering Server"	4981454	04/27/2012
005JP.DIV	Japanese Divisional Application for "Metadata Brokering Server"	2012-32541	02/17/2012
005KR	Korean Patent for "Metadata Brokering Server"	10-1141393	04/23/2012
005KR.DIV	Korean Divisional Patent for "Metadata Brokering Server"	10-1167827	07/16/2012
007	US Patent for "User Interface Device Employing Accelerometers"	7,489,299	02/10/2009
009DIV	US Divisional Application for "Keyboardless Text Entry"	13/079,255	04/04/2011
016	US Patent for "Method of Real Time Incremental Zooming"	7,260,789	08/21/2007

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<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
016CON2	US Application for "Method of Real Time Incremental Zooming"	14/173,116	02/05/2014
016CN	Chinese Patent for "Method of Real Time Incremental Zooming"	ZL200580008109.9	12/30/2009
016EP	European Application for "Method of Real Time Incremental Zooming"	05 713 848.9	09/11/2006
039	U.S. Patent for "3D Pointing Devices and Methods"	7,239,301	07/03/2007
039DIV1	U.S. Divisional Patent for "3D Pointing Devices and Methods"	7,489,298	02/10/2009
039DIV2	U.S. Divisional Application for "3D Pointing Devices and Methods"	11/820,525	06/20/2007
039CON1	U.S. Continuation Patent for "3D Pointing Devices and Methods"	8,766,917	07/01/2014
039CN	Chinese Patent for "3D Pointing Devices and Methods"	ZL200580021162.2	01/18/2012
039CN.DIV	Chinese Divisional Application for "3D Pointing Devices and Methods"	201110369736.2	11/15/2011
039EP	European Application for "3D Pointing Devices and Methods"	05 760 711.1	10/31/2006
039IN	Indian Application for "3D Pointing Devices and Methods"	6377/DELNP/2006	10/30/2006
039JP.DIV	Japanese Divisional Patent for "3D Pointing Devices and Methods"	5363533	12/11/2013
039KR	Korean Patent for "3D Pointing Devices and Methods"	10-0937572	01/11/2010
039KR.DIV	Korean Divisional Patent for "3D Pointing Devices and Methods"	10-0985364	09/28/2010
039TW	Taiwan Patent for "3D Pointing Devices and Methods"	I 376520	11/11/2012
042	US Design Patent for "Remote Control"	D550,633	09/11/2007
042CN	Chinese Design Patent for "Remote Control"	ZL200530005104.3	02/08/2006
042EP	European Design Patent for "Remote Control"	000298963	05/03/2005
042JP	Japanese Design Patent for "Remote Control"	1251001	08/05/2005
042KR	Korean Design Patent for "Remote Control"	391194	08/30/2005
042TW	Taiwanese Design Patent for "Remote Control"	D 112782	09/01/2006
044	US Patent for "Method and Apparatus for Metadata Organization for Video on Demand (VOD) Systems"	8,073,862	12/06/2011

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<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
044CN	Chinese Patent for "Method and Apparatus for Metadata Organization for Video on Demand (VOD) Systems"	ZL200580017125.4	08/10/2011
044IN	Indian Application for "Method and Apparatus for Metadata Organization for Video on Demand (VOD) Systems"	7103/DELNP/2006	11/27/2006
045	US Patent for "Zoomable User Interfaces for Personal Video Recorder Architectures"	7,634,793	12/15/2009
045CN	Chinese Patent for "Zoomable User Interfaces for Personal Video Recorder Architectures"	ZL200580017859.2	07/01/2009
045EP	European Application for "Zoomable User Interfaces for Personal Video Recorder Architectures"	05757363.6	12/08/2006
045IN	Indian Application for "Zoomable User Interfaces for Personal Video Recorder Architectures"	7107/DELNP/2006	11/27/2006
045JP	Japanese Patent for "Zoomable User Interfaces for Personal Video Recorder Architectures"	4955544	03/23/2012
045KR	Korean Patent for "Zoomable User Interfaces for Personal Video Recorder Architectures"	10-1193698	10/16/2012
046	US Patent for "Graphical Cursor Navigation Methods"	7,484,184	01/27/2009
057	US Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	7,158,118 ¹	01/02/2007
057CON1	US Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	7,262,760	08/28/2007
057CON2	US Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	7,414,611	08/19/2008
057CON3	US Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	8,072,424	12/06/2011
057CON4	US Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	8,629,836	01/14/2014

¹ U.S. Patent 7,158,118 is the subject of an inter partes reexamination proceeding in which the initial Examiner rejected the claims. The Examiner's rejection is on appeal before the Board of Patent Appeals. As of October 2, 2014, no decision has been issued by the Board.

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<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
057CON5	US Application for "3D Pointing Devices with Orientation Compensation and Improved Usability"	14/090,050	11/26/2013
057CN	Chinese Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	ZL200580021163.7	12/03/2008
057CN.DIV	Chinese Application for "3D Pointing Devices with Orientation Compensation and Improved Usability"	200810095047.5	04/23/2008
057EP	European Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057BE	Benelux Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057TR	Turkey Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	2012/06789	03/21/2012
057FI	Finland Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057NL	Netherlands Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057ES	Spain Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057FR	France Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057GB	Great Britain Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057PL	Poland Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057CH	Switzerland Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012

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<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
057CZ	Czechoslovakia Regional Phase "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057SE	Sweden Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057IE	Ireland Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057IT	Italy Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	1741088	03/21/2012
057DE	Germany Regional Phase for "3D Pointing Devices with Orientation Compensation and Improved Usability"	602005033265.0	04/25/2012
057EP.DIV	European Divisional Application for "3D Pointing Devices with Orientation Compensation and Improved Usability"	10 014 911.1	11/23/2010
057DE-2	German Utility Model Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	202005022038	05/22/2012
057IN	Indian Patent Application for "3D Pointing Devices with Orientation Compensation and Improved Usability"	6379/DELNP/2006	10/30/2006
057JP	Japanese Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	5053078	10/17/2012
057JP.DIV	Japanese Divisional Application for "3D Pointing Devices with Orientation Compensation and Improved Usability"	2012-126909	06/04/2012
057KR.DIV	Korean Divisional Patent for "3D Pointing Devices with Orientation Compensation and Improved Usability"	10-1192514	10/11/2012
058	US Patent for "Methods and Devices for Removing Unintentional Movement in 3D Pointing Devices"	7,535,456	05/19/2009
058CON	US Continuation Patent for "Methods and Devices for Removing Unintentional Movement in 3D Pointing Devices"	8,237,657	08/07/2012

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<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
058EP.DIV	European Divisional Application for "Methods and Devices for Removing Unintentional Movement in 3D Pointing Devices"	10011316.6	09/28/2010
059	US Design Patent for "Remote Control Device (Mako)"	D527,006	08/22/2006
060	US Patent for "Methods and Systems for Securing Data Processing Devices"	7,478,247	01/13/2009
062	US Patent for "Semantic Gaming and Application Transformation"	8,137,195	03/20/2012
062CON1	US Continuation Patent for "Semantic Gaming and Application Transformation"	8,795,079	07/16/2014
062CON2	US Continuation Application for "Semantic Gaming and Application Transformation"	14/218,156	03/18/2014
063	US Patent for "Control Framework with a Zoomable Graphical User Interface for Organizing, Selecting and Launching Media Items"	7,834,849	11/16/2010
065CN	Chinese Patent for "Distributed Software Construction for User Interfaces"	ZL200680001581.4	11/10/2010
065IN	Indian Application for "Distributed Software Construction for User Interfaces"	4647/DELNP/2007	06/18/2007
066	US Patent for "Scaling and Layout Methods and Systems for Handling One-To-Many Objects"	7,386,806	06/10/2008
066CON	US Continuation Application for "Scaling and Layout Methods and Systems for Handling One-To-Many Objects"	12/134,486	06/06/2008
066CN	Chinese Application for "Scaling and Layout Methods and Systems for Handling One-To-Many Objects"	200680001582.9	06/26/2007
066EP	European Application for "Scaling and Layout Methods and Systems for Handling One-To-Many Objects"	06717457.3	06/23/2007
066IN	Indian Application for "Scaling and Layout Methods and Systems for Handling One-To-Many Objects"	4720/DELNP/2007	06/19/2007
066KR	Korean Patent for "Scaling and Layout Methods and Systems for Handling One-To-Many Objects"	10-1190462	10/05/2012
069	US Patent for "Dynamic Hyperlinking"	8,555,166	10/08/2013

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<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
069CON 070	US Application for "Dynamic Hyperlinking" US Patent for "Distributed Software Construction for User Interfaces"	14/029,082 7,839,385	09/17/2013 11/23/2010
070CON1	US Continuation Patent for "Distributed Software Construction for User Interfaces"	8,169,405	05/01/2012
070CON2	US Continuation Patent for "Distributed Software Construction for User Interfaces"	8,432,358	04/30/2013
070CON3	US Continuation Application for "Distributed Software Construction for User Interfaces"	13/863,023	04/15/2013
070CN	Chinese Patent for "Distributed Software Construction for User Interfaces"	ZL200680006189.9	01/29/2014
070EP	European Application for "Distributed Software Construction for User Interfaces"	06734988.6	08/10/2007
070IN	Indian Application for "Distributed Software Construction for User Interfaces"	6312/DELNP/2007	08/13/2007
071	US Patent for "Methods and Devices for Identifying Users Based on Tremor"	7,236,156	06/26/2007
071DIV1	US Divisional Application for "Methods and Devices for Identifying Users Based on Tremor"	11/820,515	06/20/2007
071DIV2	US Divisional Application "Methods and Devices for Identifying Users Based on Tremor"	11/821,018	06/20/2007
071EP	European Application for "Methods and Devices for Identifying Users Based on Tremor"	05757855.1	10/31/2006
071JP	Japanese Patent for "Methods and Devices for Identifying Users Based on Tremor"	4685095	02/18/2011
072	US Design Patent for "Remote Control"	D528,510	09/19/2006
072CN	Chinese Design Patent for "Remote Control"	ZL20053012930.X	10/04/2006
072EP	European Design Patent for "Remote Control"	00407606	01/24/2006
072JP	Japanese Design Patent for "Remote Control"	1286565	10/06/2006
072KR	Korean Design Patent for "Remote Control"	411986	04/13/2006
072TW	Taiwanese Design Patent for "Remote Control"	D113965	11/21/2006
073	US Application for "Methods and Systems for Scrolling and Pointing in User Interfaces"	11/417,764	05/04/2006
073CN	Chinese Patent for "Methods and Systems for Scrolling and Pointing in User Interfaces"	ZL200680018850.8	05/19/2010

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110275797 v3

<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
073EP	European Application for "Methods and Systems for Scrolling and Pointing in User Interfaces"	06758910.1	11/29/2007
073IN	Indian Application for "Methods and Systems for Scrolling and Pointing in User Interfaces"	8455/DELNP/2007	11/02/2007
073JP	Japanese Patent for "Methods and Systems for Scrolling and Pointing in User Interfaces"	5553987	06/06/2014
073JP.DIV	Japanese Divisional Patent for "Methods and Systems for Scrolling and Pointing in User Interfaces"	5536140	05/09/2014
073KR	Korean Patent for "Methods and Systems for Scrolling and Pointing in User Interfaces"	10-1307716	09/05/2013
077	US Design Patent for "User Interface for a Display Screen"	D589,521	03/31/2009
078CN	Chinese Patent for "3D Pointing Devices"	ZL200680023922.8	11/08/2011
078IN	Indian Application for "3D Pointing Devices"	10190/DELNP/2007	12/28/2007
078KR	Korean Patent for "3D Pointing Devices"	10-1288186	07/15/2013
079	US Design Patent for "Remote Control (proto3)"	D586,331	02/10/2009
080	US Patent for "Interactive Content Guide for Television Programming"	7,139,983	12/21/2006
080CON2	US Continuation Patent for "Interactive Content Guide for Television Programming"	7,844,987	11/30/2010
080DIV5	US Divisional Patent for "Interactive Content Guide for Television Programming"	8,046,804	10/25/2011
080CON3	US Continuation Application for "Interactive Content Guide for Television Programming"	13/230,268	09/12/2011
082	US Application for "3D Pointing Devices and Methods with Tremor Reduction"	12/228,912	08/18/2008
084CON	US Continuation Application for "Methods and Systems for Gesture Classification in Free-Space Pointing Devices"	14/256,542	04/18/2014
085	US Application for "3D Pointing Devices with Keyboards"	11/700,507	01/31/2007
086	US Patent for "Methods and Systems for Calibrating a Sensor Using a Vector Field"	7,719,261	05/18/2010
088	US Application for "Home Multimedia Environment"	8,850,478	12/04/2006
088EP	European Application for "Home Multimedia Environment"	06844806.7	06/30/2008

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<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
089	US Patent for "Systems and Methods for Placing Advertisements"	8,180,672	05/15/2012
089CON1	US Continuation Patent for "Systems and Methods for Placing Advertisements"	8,521,587	08/27/2013
089CON2	US Continuation Application for "Systems and Methods for Placing Advertisements"	13/949,689	07/24/2013
089EP	European Application for "Systems and Methods for Placing Advertisements"	07751289.5	09/12/2008
092	US Design Patent for "Remote Control (Loop)"	D547,304	07/24/2007
092CN	Chinese Design Patent for "Remote Control (Loop)"	ZL 200730008107.1	08/06/2008
092EP	European Design Patent for "Remote Control (Loop)"	000715693-0001	08/07/2007
092KR	Korean Design Patent for "Remote Control (Loop)"	470496	11/20/2007
092TW	Taiwanese Design Patent for "Remote Control (Loop)"	D124418	08/21/2008
093	US Design Patent for "Remote Control (Bridge)"	D551,660	09/25/2007
094	US Design Patent for Remote Control (Cee)"	D550,214	09/04/2007
097	US Application for "Scene Transitions Using Zoomable Markup Language (ZML)"	11/633,325	12/05/2006
100	US Design Patent for "Set Top Box"	D552,567	10/09/2007
105	US Patent for "Real-Time Dynamic Tracking of a Bias"	7,860,676	12/28/2010
105CON1	US Continuation Patent for "Real-Time Dynamic Tracking of a Bias"	8,407,022	04/02/2013
105CON2	US Continuation Patent for "Real-Time Dynamic Tracking of a Bias"	8,683,850	04/01/2014
105CON3	US Continuation Application for "Real-Time Dynamic Tracking of a Bias"	14/218,009	03/18/2014
106	US Application for "Methods and Systems for Analyzing Parts of an Electronic File"	13/122,748	04/06/2011
108	US Patent for "Fast and Smooth Scrolling of User Interfaces Operating on Thin Clients"	8,359,545	01/22/2013
108CON1	US Continuation Application for "Fast and Smooth Scrolling of User Interfaces Operating on Thin Clients"	13/742,445	01/16/2013

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<u>Ref. No.</u>	<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
108KR	Korean Application for "Fast and Smooth Scrolling of User Interfaces Operating on Thin Clients"	10-2010-7010689	05/14/2010
110	US Application for "Playlist Creation Tools for Television User Interfaces"	11/895,410	08/24/2007
111DIV1	US Divisional Application for "Pointing Capability and Associated User Interface Elements for Television User Interfaces"	13/112,803	05/20/2011
112	US Application for "Augmenting Client-Server Architectures and Methods with Personal Computers to Support Media Applications"	12/349,913	01/07/2009
114	US Application for "Tracking Determination Based on Relative Intensity Angular Gradient"	12/424,090	04/15/2009
117	US Application for "3D Pointer Mapping"	13/000,889	12/22/2010
117CN	Chinese Application for "3D Pointing Mapping"	200980128320.2	01/19/2011
117EP	European Application for "3D Pointer Mapping"	0977447.8	12/23/2010
117IN	Indian Application for "3D Pointer Mapping"	9344/DELNP/2010	12/29/2010
117JP	Japanese Application for "3D Pointer Mapping"	2011-516853	12/28/2010
117KR	Korean Application for "3D Pointer Mapping"	10-2011-7002668	02/01/2011
117KR.CON	Korean Continuation Application for "3D Pointer Mapping"	10-2014-7018229	07/01/2014
120	US Patent for "Methods and Systems for Transmitting Synchronized Visual and Audio Media"	8,522,298	08/27/2013
120CON	US Continuation Application for "Methods and Systems for Transmitting Synchronized Visual and Audio Media"	13/950,436	07/25/2013
121	US Application for "Zooming and Panning Widget for Internet Browsers"	13/143,898	07/08/2011
130	US Application for "TV Internet Browser"	13/518,058	06/21/2012
131	US Design Patent for "Presenter"	D620,925	08/03/2010
132	US Patent for "Method for Determining the Zero Rate Output of a Sensor"	8,649,999	12/27/2010
132CON	US Continuation Application for "Method for Determining the Zero Rate Output of a Sensor"	14/176,464	02/10/2014

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133	US Application for "Embedding ARGB Data in a RGB Stream"	13/575,464	07/26/2012
135	US Application for "Overlay Device, System and Method"	13/518,394	06/22/2012
138	US Application for "TV Internet Browser"	13/053,548	03/22/2011
139	US Design Patent for "TV Internet Browser"	D658,196	04/24/2012
141	US Application for "Television Sign-On for Personalization in a Multi-User Environment"	13/703,399	12/11/2012
142	US Application for "Method of Computing a Dynamic Forward Direction"	13/701,156	11/30/2012
142CN	Chinese Application for "Method of Computing a Dynamic Forward Direction"	201180035248.6	01/17/2013
142EP	European Application for "Method of Computing a Dynamic Forward Direction"	11790455.7	12/03/2012
142KR	Korean Application for "Method of Computing a Dynamic Forward Direction"	10-2013-70000093	01/02/2013
143	US Application for "Apparatuses And Methods For Estimating The Yaw Angle Of A Device In A Gravitational Reference System Using Measurements Of Motion Sensors And A Magnetometer Attached To The Device"	13/824,538	03/18/2013
143CN	Chinese Application for "Apparatuses And Methods For Estimating The Yaw Angle Of A Device In A Gravitational Reference System Using Measurements Of Motion Sensors And A Magnetometer Attached To The Device"	201180046886.8	03/28/2013
143EP	European Application for "Apparatuses And Methods For Estimating The Yaw Angle Of A Device In A Gravitational Reference System Using Measurements Of Motion Sensors And A Magnetometer Attached To The Device"	11 829 985.8	04/30/2013
143KR	Korean Application for "Apparatuses And Methods For Estimating The Yaw Angle Of A Device In A Gravitational Reference System Using Measurements Of Motion Sensors And A Magnetometer Attached To The Device"	10-2013-7011278	04/30/2013
144	US Patent for "Apparatuses and Methods to Suppress Unintended Motion of a Pointing Device"	8,704,766	04/22/2014

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145	US Application for "Apparatuses and Methods for Magnetometer Alignment Calibration without Prior Knowledge of the Local Magnetic Field"	13/885,246	05/14/2013
146	US Application for "Apparatuses And Methods For Calibrating Magnetometer Attitude-Independent Parameters"	13/885,248	05/14/2013
147	US Application for "Apparatuses And Methods For Dynamic Tracking And Compensation Of Magnetic Near Field"	13/885,251	05/14/2013
147CN	Chinese Application for "Apparatuses And Methods For Dynamic Tracking And Compensation Of Magnetic Near Field"	201180064789.1	07/11/2013
147EP	European Application for "Apparatuses And Methods For Dynamic Tracking And Compensation Of Magnetic Near Field"	11 841 850.8	06/13/2013
147KR	Korean Application for "Apparatuses And Methods For Dynamic Tracking And Compensation Of Magnetic Near Field"	10-2013-7015607	06/17/2013
148	US Application for "3D Pointing Device With Up-Down-Left-Right Mode Switching And Integrated Swipe Detector"	13/628,505	09/27/2012
148CON	US Continuation Patent for "3D Pointing Device With Up-Down-Left-Right Mode Switching And Integrated Swipe Detector"	8,581,841	11/12/2013
148CN	Chinese Application for "3D Pointing Device With Up-Down-Left-Right Mode Switching And Integrated Swipe Detector"	201180064937.X	07/12/2013
148EP	European Application for "3D Pointing Device With Up-Down-Left-Right Mode Switching And Integrated Swipe Detector"	11 843 994.2	06/13/2013
148KR	Korean Application for "3D Pointing Device With Up-Down-Left-Right Mode Switching And Integrated Swipe Detector"	10-2013-7016357	06/24/2013
149	US Application for "Interaction Architecture for the TV"	13/326,989	12/15/2011
152PC	International Application for "Context Awareness For Smart Televisions"	PCT/US2013/67024	10/28/2013
153	US Application for "Gyroscope Stabilizer Filter"	14/266,134	04/30/2014

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154PC	International Application for "Method and Device for Smoothing Evolution of a Variable Mapped on Orientation of a Device"	PCT/US14/36142	04/30/2014
155	US Application for "Latency Masking Systems and Methods"	14/298,009	06/06/2014
156	US Provisional Application for "Dynamic Guide For Video Broadcasts And Streams"	61/918,021	12/19/2013
159	US Provisional Application for	61/950,307	03/10/2014
161	US Provisional Application for "Systems and Methods for Touch Screens Associated with a Display"	61/974,043	04/02/2014
162	US Provisional Application for "Quaternion Smoothing Method and Magnetometer Calibration"	61/938,897	02/12/2014
163	US Design Application for "Remote Control Device"	29/491,088	05/16/2014
164	US Provisional Application for "Audio and Motion Synergies"	62/040,579	08/22/2014

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Visual Material for Hillcrest HoME product framerwork	VAu000599177	08/22/2003
Visual Material for Hillerest home	VAu000654975	05/01/2005