

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5029624

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SANJIV SIRPAL | 09/25/2013 |
| SALVADOR SOTO | 09/25/2013 |
| MOHAMMED SELIM | 01/14/2014 |
| ALEXANDER DE PAZ | 09/25/2013 |
| FUQU WU | 09/25/2013 |
| ROBERT CSIKI | 09/25/2013 |
| EDUARDO DIEGOTORRES MILANO | 09/25/2013 |
| RECEIVING PARTY DATA | |
| Name: | Flextronics AP, LLC |
| Street Address: | 6201 America Center Drive |
| City: | San Jose |
| State/Country: | CALIFORNIA |
| Postal Code: | 95002 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Patent Number: | 9686582 |
| CORRESPONDENCE DATA | |
| Fax Number: | (303)863-0223 |
| <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: | 303-863-9700 |
| Email: | flexpatents-sr@sheridanross.com |
| Correspondent Name: | SHERIDAN ROSS P.C. |
| Address Line 1: | 1560 BROADWAY |
| Address Line 2: | SUITE 1200 |
| Address Line 4: | DENVER, COLORADO 80202 |
| ATTORNEY DOCKET NUMBER: | 6583-454-CON |
| NAME OF SUBMITTER: | DOUGLAS W. SWARTZ |
| SIGNATURE: | /Douglas W. Swartz/ |
| DATE SIGNED: | 06/28/2018 |

PATENT

PATENT ASSIGNMENT

This Patent Assignment (the "Assignment") is made and entered into by and between **Sanjiv Sirpal** of 3264 Stocksbridge Avenue, Oakville, Ontario L6M 0E3, Canada ("ASSIGNOR"), and **Flextronics AP, LLC** ("ASSIGNEE"), a Colorado limited liability company whose address is 6201 America Center Drive, San Jose, California 95002.

WHEREAS, ASSIGNOR has made certain inventions, including but not limited to, U.S. provisional patent applications, U.S. nonprovisional patent applications, PCT patent applications, foreign patent applications, and other inventions as set forth in Appendix A (collectively, "the Inventions"), and

WHEREAS, ASSIGNEE desires to acquire the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, the applications, and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to ASSIGNOR by ASSIGNEE or other good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. ASSIGNOR does hereby sell, assign, transfer, convey, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the subject matter of the Inventions, and to any continuation, continuation-in-part, division, renewal, extension, substitute, re-examination or reissue thereof or any legal equivalent in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under any international conventions and treaties, together with all claims for damages and other remedies by reason of past infringements of the Inventions, whether arising prior to or subsequent to the date of this Assignment, along with the right to sue for and collect such damages and other remedies for the use and benefit of ASSIGNEE and its successors, assigns, and other legal representatives.

2. Authorization. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and, in the case of any patent applications filed with any office of any country or countries foreign to the United States, any officer of such country whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to ASSIGNEE and its successors, assigns, and other legal representatives in accordance with the terms of this Assignment.

3. Assignor's Warranty. ASSIGNOR covenants and agrees that ASSIGNOR has the full right to convey the entire right, title, and interest herein assigned by this Assignment and that ASSIGNOR has not executed and will not execute any assignment or other instrument in conflict with this Assignment.

4. Further Actions. ASSIGNOR further covenants and agrees that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, ASSIGNOR will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to ASSIGNOR regarding the Inventions, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the Inventions in ASSIGNEE, its

successors, legal representatives, and/or assigns, execute all divisional, continuation, continuation-in-part, reissue, reexamination, or any other applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

5. Authorization and Consent. ASSIGNOR hereby authorizes ASSIGNEE, or its attorneys or agents, to insert the correct Application Serial Number and Filing Date into this Assignment, if none is indicated on that date of ASSIGNOR's execution of this Assignment.

6. Governing Law. This Assignment and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California.

7. Severability. In the event that any clause, sub-clause or other provision contained in this Assignment shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

8. Counterparts. This Assignment may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

9. Headings; Construction. The headings to the clauses, sub-clauses and parts of this Assignment are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Assignment.

10. Entire Assignment. This Assignment supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Assignment and constitutes the entire understanding between the parties hereto.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, ASSIGNOR has executed this Assignment on the date indicated below.

Date: September 25 / 2013 By: *Sanjiv Sirpal*
Sanjiv Sirpal

CANADA)
) ss.
PROVINCE OF ONTARIO)

Before me, a Notary Public in and for said County and State, personally appeared Sanjiv Sirpal, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 25 day of SEPTEMBER, 2013.

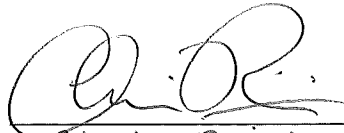
William Howard K...
Notary Public

My Commission Expires: DOES NOT EXPIRE (Seal)

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IN WITNESS WHEREOF, ASSIGNEE has executed this Assignment on the date indicated below.

FLEXTRONICS AP, LLC

By: 
Name: Chris Ricci
Title: Authorized Signor

STATE OF CALIFORNIA)
) SS:
COUNTY OF Santa Clara)

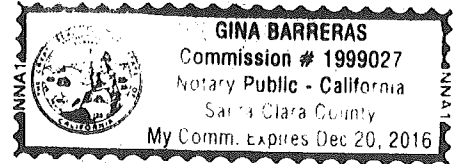
Before me, a Notary Public in and for said County and State, personally appeared Chris Ricci, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20 day of Dec, 2013.


Notary Public

My Commission Expires: 12/20/2016

(Seal)



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APPENDIX A

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|--------------------------------------------------------------------------------|----------------|-------------------|--------------------|
| 6583-417-PROV-3 | SmartTV | US | 61/804,942 | 03/25/2013 |
| 6583-417-PROV-4 | SmartTV | US | 61/804,998 | 03/25/2013 |
| 6583-417-PROV-5 | SmartTV | US | 61/804,971 | 03/25/2013 |
| 6583-417-PROV-6 | SmartTV | US | 61/804,990 | 03/25/2013 |
| 6583-417-PROV-7 | SmartTV | US | 61/805,003 | 03/25/2013 |
| 6583-417-PROV-9 | SmartTV | US | 61/805,030 | 03/25/2013 |
| 6583-417-PROV-8 | SmartTV | US | 61/805,053 | 03/25/2013 |
| 6583-417-PROV-10 | SmartTV | US | 61/805,027 | 03/25/2013 |
| 6583-417-PROV-11 | SmartTV | US | 61/805,042 | 03/25/2013 |
| 6583-417-PROV-12 | SmartTV | US | 61/805,038 | 03/25/2013 |
| 6583-362-PROV | Smart TV | US | 61/684,672 | 08/17/2012 |
| 6583-362-PROV-1 | Smart TV | US | 61/702,650 | 09/18/2012 |
| 6583-396-PROV | Social TV | US | 61/697,710 | 09/06/2012 |
| 6583-410-PROV | Social TV Roadmap | US | 61/700,182 | 09/12/2012 |
| 6583-417-PROV-2 | SmartTV | US | 61/798,821 | 03/15/2013 |
| 6583-424-PCN | Intelligent Television | CN | | 04/16/2013 |
| 6583-424-PCT | Intelligent Television | WO | PCT/US13/36844 | 04/16/2013 |
| 6583-426-PCT | Systems and Methods for Providing User Interfaces in an Intelligent Television | WO | PCT/US13/55494 | 08/18/2013 |
| 6583-427 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,857 | 08/19/2013 |
| 6583-429 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,875 | 08/19/2013 |
| 6583-430-PCN | Methods and Displays for Providing Intelligent Television Badges | CN | | 04/16/2013 |
| 6583-430-PCT | Methods and Displays for Providing Intelligent Television Badges | WO | PCT/US13/36826 | 04/16/2013 |
| 6583-431 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,880 | 08/19/2013 |
| 6583-432 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,884 | 08/19/2013 |
| 6583-434-PCT | Systems and Methods for Providing Social Media with an Intelligent Television | WO | PCT/US13/55342 | 08/16/2013 |

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------|--------------------------------------------------------------------------------|---------|----------------|-------------|
| 6583-436 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,388 | 08/19/2013 |
| 6583-436-PCT | Systems and Methods for Providing Video On Demand in an Intelligent Television | WO | PCT/US13/55589 | 08/19/2013 |
| 6583-439 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,420 | 08/19/2013 |
| 6583-442 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,450 | 08/19/2013 |
| 6583-444 | Method and System for Changing Programming on a Television | US | 13/968,858 | 08/16/2013 |
| 6583-444-PCT | Method and System for Changing Programming on a Television | WO | PCT/US13/55289 | 08/16/2013 |
| 6583-446 | On Screen Header Bar for Providing Program Information | US | 13/968,876 | 08/16/2013 |
| 6583-446-PCT | On Screen Header Bar for Providing Program Information | WO | PCT/US13/55286 | 08/16/2013 |
| 6583-449 | Live Television Application Setup Behavior | US | 13/968,983 | 08/16/2013 |
| 6583-449-PCT | Live Television Application Setup Behavior | WO | PCT/US13/55293 | 08/16/2013 |
| 6583-450 | Electronic Program Guide and Preview Window | US | 13/968,948 | 08/16/2013 |
| 6583-450-PCT | Electronic Program Guide and Preview Window | WO | PCT/US13/55294 | 08/16/2013 |
| 6583-451 | Live Television Application Information Panel | US | 13/968,929 | 08/16/2013 |
| 6583-451-PCT | Live Television Application Information Panel | WO | PCT/US13/55296 | 08/16/2013 |
| 6583-452 | Panel User Interface for an Intelligent Television | US | 13/969,588 | 08/18/2013 |
| 6583-452-PCT | Panel User Interface for an Intelligent Television | WO | PCT/US13/55493 | 08/18/2013 |
| 6583-454 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,505 | 08/17/2013 |
| 6583-454-PCT | Systems and Methods for Managing Data in an Intelligent Television | WO | PCT/US13/55340 | 08/16/2013 |
| 6583-455 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,487 | 08/16/2013 |

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------|--------------------------------------------------------------------------------------|---------|-------------------|-------------|
| 6583-457 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,491 | 08/16/2013 |
| 6583-458 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,492 | 08/16/2013 |
| 6583-459 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,493 | 08/16/2013 |
| 6583-460 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,494 | 08/16/2013 |
| 6583-461 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,499 | 08/16/2013 |
| 6583-464 | Content-Sensitive and Context-Sensitive User Interface for an Intelligent Television | US | 13/970,355 | 08/19/2013 |
| 6583-464-PCT | Content-Sensitive and Context-Sensitive User Interface for an Intelligent Television | WO | PCT/US13/55592 | 08/19/2013 |
| 6583-470-PCN | Media Center | CN | | 04/16/2013 |
| 6583-470-PCT | Method and System for Customizing Televised Content | WO | PCT/US13/36782 | 04/16/2013 |
| 6583-471-PCN | On-Screen Settings Interaction For Interactive Television | CN | | 04/16/2013 |
| 6583-471-PCT | On-Screen Settings Interaction For Interactive Television | WO | PCT/US13/36678 | 04/16/2013 |
| 6583-472-PCN | EPG Aggregation From Multiple Sources | CN | | 04/16/2013 |
| 6583-472-PCT | EPG Aggregation From Multiple Sources | WO | PCT/US13/36804 | 04/16/2013 |
| 6583-477 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,503 | 08/17/2013 |
| 6583-478 | Intelligent Channel Changing | US | 13/969,179 | 08/16/2013 |
| 6583-478-PCT | Intelligent Channel Changing | WO | PCT/US13/55405 | 08/16/2013 |
| 6583-479 | Dynamic Arrangement of an Application Center Based on Usage | US | 13/968,767 | 08/16/2013 |
| 6583-479-PCT | Dynamic Arrangement of an Application Center Based on Usage | WO | PCT/US13/55278 | 08/16/2013 |
| 6583-481 | Global Panel | US | 13/970,374 | 08/19/2013 |
| 6583-481-PCT | Global Panel | WO | PCT/US13/55509 | 08/19/2013 |
| 6583-487-PCT | Reminder Dialog Presentation and Behavior | WO | PCT/CN2013/081639 | 08/16/2013 |

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|-------------------------------------------------------------------------------|----------------|-------------------|--------------------|
| 6583-488 | Panel User Interface for an Intelligent Television | US | 13/968,665 | 08/16/2013 |
| 6583-488-PCT | Panel User Interface for an Intelligent Television | WO | PCT/US13/55303 | 08/16/2013 |
| 6583-489 | Media Center Panels for an Intelligent Television | US | 13/968,897 | 08/16/2013 |
| 6583-489-PCT | Media Center Panels for an Intelligent Television | WO | PCT/US13/55280 | 08/16/2013 |
| 6583-512 | Remote Control Device Icons | US | 29/460,631 | 07/12/2013 |
| 6583-513 | Remote Control Device Icon | US | 29/460,632 | 07/12/2013 |
| 6583-514 | Remote Control Device Icon | US | 29/460,634 | 07/12/2013 |
| 6583-515 | Remote Control Device Icon | US | 29/460,636 | 07/12/2013 |
| 6583-516 | Remote Control Device Icon | US | 29/460,640 | 07/12/2013 |
| 6583-517 | Remote Control Device Icon | US | 29/460,641 | 07/12/2013 |
| 6583-518 | Remote Control Device Icon | US | 29/460,642 | 07/12/2013 |
| 6583-521 | Remote Control Device Icon | US | 29/461,173 | 07/19/2013 |
| 6583-526 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,504 | 08/17/2013 |

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PATENT ASSIGNMENT

This Patent Assignment (the "Assignment") is made and entered into by and between **Salvador Soto** of 3902-25 Capreol Court, Toronto, Ontario M5V 3Z7, Canada ("ASSIGNOR"), and **Flextronics AP, LLC** ("ASSIGNEE"), a Colorado limited liability company whose address is 6201 America Center Drive, San Jose, California 95002.

WHEREAS, ASSIGNOR has made certain inventions, including but not limited to, U.S. provisional patent applications, U.S. nonprovisional patent applications, PCT patent applications, foreign patent applications, and other inventions as set forth in Appendix A (collectively, "the Inventions"), and

WHEREAS, ASSIGNEE desires to acquire the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, the applications, and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to ASSIGNOR by ASSIGNEE or other good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. ASSIGNOR does hereby sell, assign, transfer, convey, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the subject matter of the Inventions, and to any continuation, continuation-in-part, division, renewal, extension, substitute, re-examination or reissue thereof or any legal equivalent in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under any international conventions and treaties, together with all claims for damages and other remedies by reason of past infringements of the Inventions, whether arising prior to or subsequent to the date of this Assignment, along with the right to sue for and collect such damages and other remedies for the use and benefit of ASSIGNEE and its successors, assigns, and other legal representatives.

2. Authorization. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and, in the case of any patent applications filed with any office of any country or countries foreign to the United States, any officer of such country whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to ASSIGNEE and its successors, assigns, and other legal representatives in accordance with the terms of this Assignment.

3. Assignor's Warranty. ASSIGNOR covenants and agrees that ASSIGNOR has the full right to convey the entire right, title, and interest herein assigned by this Assignment and that ASSIGNOR has not executed and will not execute any assignment or other instrument in conflict with this Assignment.

4. Further Actions. ASSIGNOR further covenants and agrees that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, ASSIGNOR will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to ASSIGNOR regarding the Inventions, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the Inventions in ASSIGNEE, its

successors, legal representatives, and/or assigns, execute all divisional, continuation, continuation-in-part, reissue, reexamination, or any other applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

5. Authorization and Consent. ASSIGNOR hereby authorizes ASSIGNEE, or its attorneys or agents, to insert the correct Application Serial Number and Filing Date into this Assignment, if none is indicated on that date of ASSIGNOR's execution of this Assignment.

6. Governing Law. This Assignment and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California.

7. Severability. In the event that any clause, sub-clause or other provision contained in this Assignment shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

8. Counterparts. This Assignment may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

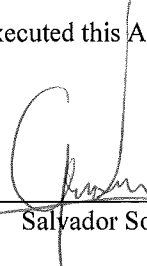
9. Headings; Construction. The headings to the clauses, sub-clauses and parts of this Assignment are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Assignment.

10. Entire Assignment. This Assignment supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Assignment and constitutes the entire understanding between the parties hereto.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, ASSIGNOR has executed this Assignment on the date indicated below.

Date: 25-September-2013

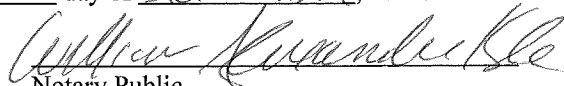
By: 

Salvador Soto

CANADA)
) ss.
PROVINCE OF ONTARIO)

Before me, a Notary Public in and for said County and State, personally appeared Salvador Soto, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 25 day of SEPTEMBER, 2013.



Notary Public

My Commission Expires: DOES NOT EXPIRE (Seal)

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IN WITNESS WHEREOF, ASSIGNEE has executed this Assignment on the date indicated below.

FLEXTRONICS AP, LLC

By: *[Signature]*
Name: Authorized Signatory
Title: Chris Ricci

STATE OF CALIFORNIA)
COUNTY OF Santa Clara) SS:

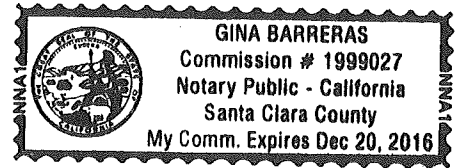
Before me, a Notary Public in and for said County and State, personally appeared Chris Ricci, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20 day of Dec, 2013.

Gina Barreras
Notary Public

My Commission Expires: 12/20/2016

(Seal)



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APPENDIX A

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|--------------------------------------------------------------------------------|----------------|-------------------|--------------------|
| 6583-417-PROV-3 | SmartTV | US | 61/804,942 | 03/25/2013 |
| 6583-417-PROV-4 | SmartTV | US | 61/804,998 | 03/25/2013 |
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| 6583-417-PROV-11 | SmartTV | US | 61/805,042 | 03/25/2013 |
| 6583-417-PROV-12 | SmartTV | US | 61/805,038 | 03/25/2013 |
| 6583-426-PCT | Systems and Methods for Providing User Interfaces in an Intelligent Television | WO | PCT/US13/55494 | 08/18/2013 |
| 6583-429 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,875 | 08/19/2013 |
| 6583-431 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,880 | 08/19/2013 |
| 6583-433 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,887 | 08/19/2013 |
| 6583-454 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,505 | 08/17/2013 |
| 6583-454-PCT | Systems and Methods for Managing Data in an Intelligent Television | WO | PCT/US13/55340 | 08/16/2013 |
| 6583-463 | Content-Sensitive User Interface for an Intelligent Television | US | 13/970,000 | 08/19/2013 |
| 6583-463-PCT | Content-Sensitive User Interface for an Intelligent Television | WO | PCT/US13/55551 | 08/19/2013 |
| 6583-481 | Global Panel | US | 13/970,374 | 08/19/2013 |
| 6583-481-PCT | Global Panel | WO | PCT/US13/55509 | 08/19/2013 |

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PATENT ASSIGNMENT

This Patent Assignment (the "Assignment") is made and entered into by and between **Mohammed Selim** of 2488 Oakhaven Drive, Oakville, Ontario L6M4B9, Canada ("ASSIGNOR"), and **Flextronics AP, LLC** ("ASSIGNEE"), a Colorado limited liability company whose address is 6201 America Center Drive, San Jose, California 95002.

WHEREAS, ASSIGNOR has made certain inventions, including but not limited to, U.S. provisional patent applications, U.S. nonprovisional patent applications, PCT patent applications, foreign patent applications, and other inventions as set forth in Appendix A (collectively, "the Inventions"), and

WHEREAS, ASSIGNEE desires to acquire the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, the applications, and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to ASSIGNOR by ASSIGNEE or other good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. ASSIGNOR does hereby sell, assign, transfer, convey, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the subject matter of the Inventions, and to any continuation, continuation-in-part, division, renewal, extension, substitute, re-examination or reissue thereof or any legal equivalent in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under any international conventions and treaties, together with all claims for damages and other remedies by reason of past infringements of the Inventions, whether arising prior to or subsequent to the date of this Assignment, along with the right to sue for and collect such damages and other remedies for the use and benefit of ASSIGNEE and its successors, assigns, and other legal representatives.

2. Authorization. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and, in the case of any patent applications filed with any office of any country or countries foreign to the United States, any officer of such country whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to ASSIGNEE and its successors, assigns, and other legal representatives in accordance with the terms of this Assignment.

3. Assignor's Warranty. ASSIGNOR covenants and agrees that ASSIGNOR has the full right to convey the entire right, title, and interest herein assigned by this Assignment and that ASSIGNOR has not executed and will not execute any assignment or other instrument in conflict with this Assignment.

4. Further Actions. ASSIGNOR further covenants and agrees that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, ASSIGNOR will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to ASSIGNOR regarding the Inventions, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the Inventions in ASSIGNEE, its

successors, legal representatives, and/or assigns, execute all divisional, continuation, continuation-in-part, reissue, reexamination, or any other applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

5. Authorization and Consent. ASSIGNOR hereby authorizes ASSIGNEE, or its attorneys or agents, to insert the correct Application Serial Number and Filing Date into this Assignment, if none is indicated on that date of ASSIGNOR's execution of this Assignment.

6. Governing Law. This Assignment and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California.

7. Severability. In the event that any clause, sub-clause or other provision contained in this Assignment shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

8. Counterparts. This Assignment may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

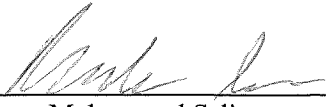
9. Headings; Construction. The headings to the clauses, sub-clauses and parts of this Assignment are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Assignment.

10. Entire Assignment. This Assignment supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Assignment and constitutes the entire understanding between the parties hereto.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, ASSIGNOR has executed this Assignment on the date indicated below.

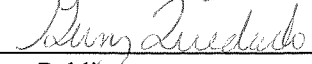
Date: Jan 14 2014

By: 
Mohammed Selim

CANADA)
) ss.
PROVINCE OF Ontario)

Before me, a Notary Public in and for said County and State, personally appeared Mohammed Selim, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 14th day of January, 2013. ^{2014/12}


Notary Public

My Commission Expires: Does not expire


(Seal)

Notary Services Ontario
8 King Street East, Suite 1200
Toronto, ON M5C 1B5
(416) 623-1830

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, ASSIGNEE has executed this Assignment on the date indicated below.

FLEXTRONICS AP, LLC

By: 
Name: Chris Ricci
Title: Authorized Signatory

STATE OF CALIFORNIA)
) SS:
COUNTY OF Santa Clara)

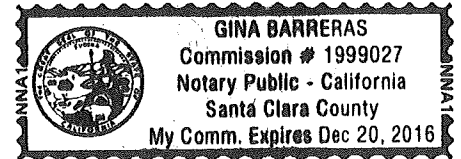
Before me, a Notary Public in and for said County and State, personally appeared Chris Ricci, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 31 day of Jan, 2013.


Notary Public

My Commission Expires: 12/20/2016

(Seal)



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APPENDIX A

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|--------------------------------------------------------------------------------|----------------|-------------------|--------------------|
| 6583-417-PROV-3 | SmartTV | US | 61/804,942 | 03/25/2013 |
| 6583-417-PROV-4 | SmartTV | US | 61/804,998 | 03/25/2013 |
| 6583-417-PROV-5 | SmartTV | US | 61/804,971 | 03/25/2013 |
| 6583-417-PROV-6 | SmartTV | US | 61/804,990 | 03/25/2013 |
| 6583-417-PROV-7 | SmartTV | US | 61/805,003 | 03/25/2013 |
| 6583-417-PROV-9 | SmartTV | US | 61/805,030 | 03/25/2013 |
| 6583-417-PROV-8 | SmartTV | US | 61/805,053 | 03/25/2013 |
| 6583-417-PROV-10 | SmartTV | US | 61/805,027 | 03/25/2013 |
| 6583-417-PROV-11 | SmartTV | US | 61/805,042 | 03/25/2013 |
| 6583-417-PROV-12 | SmartTV | US | 61/805,038 | 03/25/2013 |
| 6583-424-PCN | Intelligent Television | CN | | 04/16/2013 |
| 6583-424-PCT | Intelligent Television | WO | PCT/US13/36844 | 04/16/2013 |
| 6583-426 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,846 | 08/19/2013 |
| 6583-426-PCT | Systems and Methods for Providing User Interfaces in an Intelligent Television | WO | PCT/US13/55494 | 08/18/2013 |
| 6583-428 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,869 | 08/19/2013 |
| 6583-429 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,875 | 08/19/2013 |
| 6583-430-PCN | Methods and Displays for Providing Intelligent Television Badges | CN | | 04/16/2013 |
| 6583-430-PCT | Methods and Displays for Providing Intelligent Television Badges | WO | PCT/US13/36826 | 04/16/2013 |
| 6583-431 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,880 | 08/19/2013 |
| 6583-436 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,388 | 08/19/2013 |
| 6583-436-PCT | Systems and Methods for Providing Video On Demand in an Intelligent Television | WO | PCT/US13/55589 | 08/19/2013 |
| 6583-437 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,398 | 08/19/2013 |

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------|--------------------------------------------------------------------------------|---------|----------------|-------------|
| 6583-438 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,409 | 08/19/2013 |
| 6583-439 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,420 | 08/19/2013 |
| 6583-440 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,427 | 08/19/2013 |
| 6583-441 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,442 | 08/19/2013 |
| 6583-442 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,450 | 08/19/2013 |
| 6583-443 | Systems and Methods for Providing Video On Demand in an Intelligent Television | US | 13/970,453 | 08/19/2013 |
| 6583-444 | Method and System for Changing Programming on a Television | US | 13/968,858 | 08/16/2013 |
| 6583-444-PCT | Method and System for Changing Programming on a Television | WO | PCT/US13/55289 | 08/16/2013 |
| 6583-445 | On Screen Method and System for Changing Television Channels | US | 13/968,884 | 08/16/2013 |
| 6583-445-PCT | On Screen Method and System for Changing Television Channels | WO | PCT/US13/55288 | 08/16/2013 |
| 6583-446 | On Screen Header Bar for Providing Program Information | US | 13/968,876 | 08/16/2013 |
| 6583-446-PCT | On Screen Header Bar for Providing Program Information | WO | PCT/US13/55286 | 08/16/2013 |
| 6583-447 | Method and System for Locating Programming on a Television | US | 13/968,867 | 08/16/2013 |
| 6583-447-PCT | Method and System for Locating Programming on a Television | WO | PCT/US13/55285 | 08/16/2013 |
| 6583-448 | Method and System for Managing Programming on a Television | US | 13/968,913 | 08/16/2013 |
| 6583-448-PCT | Method and System for Managing Programming on a Television | WO | PCT/US13/55284 | 08/16/2013 |
| 6583-449 | Live Television Application Setup Behavior | US | 13/968,983 | 08/16/2013 |
| 6583-449-PCT | Live Television Application Setup Behavior | WO | PCT/US13/55293 | 08/16/2013 |
| 6583-450 | Electronic Program Guide and Preview Window | US | 13/968,948 | 08/16/2013 |
| 6583-450-PCT | Electronic Program Guide and Preview Window | WO | PCT/US13/55294 | 08/16/2013 |
| 6583-451 | Live Television Application Information Panel | US | 13/968,929 | 08/16/2013 |

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------|--------------------------------------------------------------------------------------|---------|-------------------|-------------|
| 6583-451-PCT | Live Television Application Information Panel | WO | PCT/US13/55296 | 08/16/2013 |
| 6583-452 | Panel User Interface for an Intelligent Television | US | 13/969,588 | 08/18/2013 |
| 6583-452-PCT | Panel User Interface for an Intelligent Television | WO | PCT/US13/55493 | 08/18/2013 |
| 6583-454 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,505 | 08/17/2013 |
| 6583-454-PCT | Systems and Methods for Managing Data in an Intelligent Television | WO | PCT/US13/55340 | 08/16/2013 |
| 6583-463 | Content-Sensitive User Interface for an Intelligent Television | US | 13/970,000 | 08/19/2013 |
| 6583-463-PCT | Content-Sensitive User Interface for an Intelligent Television | WO | PCT/US13/55551 | 08/19/2013 |
| 6583-464 | Content-Sensitive and Context-Sensitive User Interface for an Intelligent Television | US | 13/970,355 | 08/19/2013 |
| 6583-464-PCT | Content-Sensitive and Context-Sensitive User Interface for an Intelligent Television | WO | PCT/US13/55592 | 08/19/2013 |
| 6583-470-PCN | Media Center | CN | | 04/16/2013 |
| 6583-470-PCT | Method and System for Customizing Televised Content | WO | PCT/US13/36782 | 04/16/2013 |
| 6583-471-PCN | On-Screen Settings Interaction For Interactive Television | CN | | 04/16/2013 |
| 6583-471-PCT | On-Screen Settings Interaction For Interactive Television | WO | PCT/US13/36678 | 04/16/2013 |
| 6583-472-PCN | EPG Aggregation From Multiple Sources | CN | | 04/16/2013 |
| 6583-472-PCT | EPG Aggregation From Multiple Sources | WO | PCT/US13/36804 | 04/16/2013 |
| 6583-478 | Intelligent Channel Changing | US | 13/969,179 | 08/16/2013 |
| 6583-478-PCT | Intelligent Channel Changing | WO | PCT/US13/55405 | 08/16/2013 |
| 6583-479 | Dynamic Arrangement of an Application Center Based on Usage | US | 13/968,767 | 08/16/2013 |
| 6583-479-PCT | Dynamic Arrangement of an Application Center Based on Usage | WO | PCT/US13/55278 | 08/16/2013 |
| 6583-480 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,506 | 08/17/2013 |
| 6583-481 | Global Panel | US | 13/970,374 | 08/19/2013 |
| 6583-481-PCT | Global Panel | WO | PCT/US13/55509 | 08/19/2013 |
| 6583-487-PCT | Reminder Dialog Presentation and Behavior | WO | PCT/CN2013/081639 | 08/16/2013 |

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|----------------------------------------------------|----------------|-------------------|--------------------|
| 6583-488 | Panel User Interface for an Intelligent Television | US | 13/968,665 | 08/16/2013 |
| 6583-488-PCT | Panel User Interface for an Intelligent Television | WO | PCT/US13/55303 | 08/16/2013 |
| 6583-489 | Media Center Panels for an Intelligent Television | US | 13/968,897 | 08/16/2013 |
| 6583-489-PCT | Media Center Panels for an Intelligent Television | WO | PCT/US13/55280 | 08/16/2013 |
| 6583-512 | Remote Control Device Icons | US | 29/460,631 | 07/12/2013 |
| 6583-513 | Remote Control Device Icon | US | 29/460,632 | 07/12/2013 |
| 6583-514 | Remote Control Device Icon | US | 29/460,634 | 07/12/2013 |
| 6583-515 | Remote Control Device Icon | US | 29/460,636 | 07/12/2013 |
| 6583-516 | Remote Control Device Icon | US | 29/460,640 | 07/12/2013 |
| 6583-517 | Remote Control Device Icon | US | 29/460,641 | 07/12/2013 |
| 6583-518 | Remote Control Device Icon | US | 29/460,642 | 07/12/2013 |
| 6583-521 | Remote Control Device Icon | US | 29/461,173 | 07/19/2013 |

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PATENT ASSIGNMENT

This Patent Assignment (the "Assignment") is made and entered into by and between **Alexander de Paz** of 5444 Valleyhigh Drive, Burlington, Ontario L7L 6Z6, Canada ("ASSIGNOR"), and **Flextronics AP, LLC** ("ASSIGNEE"), a Colorado limited liability company whose address is 6201 America Center Drive, San Jose, California 95002.

WHEREAS, ASSIGNOR has made certain inventions, including but not limited to, U.S. provisional patent applications, U.S. nonprovisional patent applications, PCT patent applications, foreign patent applications, and other inventions as set forth in Appendix A (collectively, "the Inventions"), and

WHEREAS, ASSIGNEE desires to acquire the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, the applications, and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to ASSIGNOR by ASSIGNEE or other good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. ASSIGNOR does hereby sell, assign, transfer, convey, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the subject matter of the Inventions, and to any continuation, continuation-in-part, division, renewal, extension, substitute, re-examination or reissue thereof or any legal equivalent in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under any international conventions and treaties, together with all claims for damages and other remedies by reason of past infringements of the Inventions, whether arising prior to or subsequent to the date of this Assignment, along with the right to sue for and collect such damages and other remedies for the use and benefit of ASSIGNEE and its successors, assigns, and other legal representatives.

2. Authorization. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and, in the case of any patent applications filed with any office of any country or countries foreign to the United States, any officer of such country whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to ASSIGNEE and its successors, assigns, and other legal representatives in accordance with the terms of this Assignment.

3. Assignor's Warranty. ASSIGNOR covenants and agrees that ASSIGNOR has the full right to convey the entire right, title, and interest herein assigned by this Assignment and that ASSIGNOR has not executed and will not execute any assignment or other instrument in conflict with this Assignment.

4. Further Actions. ASSIGNOR further covenants and agrees that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, ASSIGNOR will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to ASSIGNOR regarding the Inventions, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the Inventions in ASSIGNEE, its

successors, legal representatives, and/or assigns, execute all divisional, continuation, continuation-in-part, reissue, reexamination, or any other applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

5. Authorization and Consent. ASSIGNOR hereby authorizes ASSIGNEE, or its attorneys or agents, to insert the correct Application Serial Number and Filing Date into this Assignment, if none is indicated on that date of ASSIGNOR's execution of this Assignment.

6. Governing Law. This Assignment and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California.

7. Severability. In the event that any clause, sub-clause or other provision contained in this Assignment shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

8. Counterparts. This Assignment may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

9. Headings; Construction. The headings to the clauses, sub-clauses and parts of this Assignment are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Assignment.

10. Entire Assignment. This Assignment supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Assignment and constitutes the entire understanding between the parties hereto.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, ASSIGNEE has executed this Assignment on the date indicated below.

FLEXTRONICS AP, LLC

By: *Chris Ricci*
Name: Chris Ricci
Title: Authorized Signatory

STATE OF CALIFORNIA)
) SS:
COUNTY OF Santa Clara)

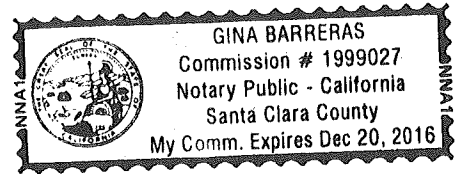
Before me, a Notary Public in and for said County and State, personally appeared Chris Ricci, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20 day of Dec., 2013.

Gina Barreras
Notary Public

My Commission Expires: 12/20/2016

(Seal)



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APPENDIX A

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|--------------------------------------------------------------------------------|----------------|-------------------|--------------------|
| 6583-417-PROV-3 | SmartTV | US | 61/804,942 | 03/25/2013 |
| 6583-417-PROV-4 | SmartTV | US | 61/804,998 | 03/25/2013 |
| 6583-417-PROV-5 | SmartTV | US | 61/804,971 | 03/25/2013 |
| 6583-417-PROV-6 | SmartTV | US | 61/804,990 | 03/25/2013 |
| 6583-417-PROV-7 | SmartTV | US | 61/805,003 | 03/25/2013 |
| 6583-417-PROV-9 | SmartTV | US | 61/805,030 | 03/25/2013 |
| 6583-417-PROV-8 | SmartTV | US | 61/805,053 | 03/25/2013 |
| 6583-417-PROV-10 | SmartTV | US | 61/805,027 | 03/25/2013 |
| 6583-417-PROV-11 | SmartTV | US | 61/805,042 | 03/25/2013 |
| 6583-417-PROV-12 | SmartTV | US | 61/805,038 | 03/25/2013 |
| 6583-424-PCN | Intelligent Television | CN | | 04/16/2013 |
| 6583-424-PCT | Intelligent Television | WO | PCT/US13/36844 | 04/16/2013 |
| 6583-426-PCT | Systems and Methods for Providing User Interfaces in an Intelligent Television | WO | PCT/US13/55494 | 08/18/2013 |
| 6583-429 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,875 | 08/19/2013 |
| 6583-430-PCN | Methods and Displays for Providing Intelligent Television Badges | CN | | 04/16/2013 |
| 6583-430-PCT | Methods and Displays for Providing Intelligent Television Badges | WO | PCT/US13/36826 | 04/16/2013 |
| 6583-431 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,880 | 08/19/2013 |
| 6583-432 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,884 | 08/19/2013 |
| 6583-433 | Systems and Methods for Providing User Interfaces in an Intelligent Television | US | 13/969,887 | 08/19/2013 |
| 6583-434-PCT | Systems and Methods for Providing Social Media with an Intelligent Television | WO | PCT/US13/55342 | 08/16/2013 |
| 6583-444 | Method and System for Changing Programming on a Television | US | 13/968,858 | 08/16/2013 |
| 6583-444-PCT | Method and System for Changing Programming on a Television | WO | PCT/US13/55289 | 08/16/2013 |

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------|--------------------------------------------------------------------------------------|---------|----------------|-------------|
| 6583-449 | Live Television Application Setup Behavior | US | 13/968,983 | 08/16/2013 |
| 6583-449-PCT | Live Television Application Setup Behavior | WO | PCT/US13/55293 | 08/16/2013 |
| 6583-454 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,505 | 08/17/2013 |
| 6583-454-PCT | Systems and Methods for Managing Data in an Intelligent Television | WO | PCT/US13/55340 | 08/16/2013 |
| 6583-455 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969,487 | 08/16/2013 |
| 6583-462 | Systems and Methods for Providing Social Media with an Intelligent Television | US | 13/969/502 | 08/17/2013 |
| 6583-463 | Content-Sensitive User Interface for an Intelligent Television | US | 13/970,000 | 08/19/2013 |
| 6583-463-PCT | Content-Sensitive User Interface for an Intelligent Television | WO | PCT/US13/55551 | 08/19/2013 |
| 6583-464 | Content-Sensitive and Context-Sensitive User Interface for an Intelligent Television | US | 13/970,355 | 08/19/2013 |
| 6583-464-PCT | Content-Sensitive and Context-Sensitive User Interface for an Intelligent Television | WO | PCT/US13/55592 | 08/19/2013 |
| 6583-488 | Panel User Interface for an Intelligent Television | US | 13/968,665 | 08/16/2013 |
| 6583-488-PCT | Panel User Interface for an Intelligent Television | WO | PCT/US13/55303 | 08/16/2013 |

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PATENT ASSIGNMENT

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WHEREAS, ASSIGNOR has made certain inventions, including but not limited to, U.S. provisional patent applications, U.S. nonprovisional patent applications, PCT patent applications, foreign patent applications, and other inventions as set forth in Appendix A (collectively, "the Inventions"), and

WHEREAS, ASSIGNEE desires to acquire the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, the applications, and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

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2. Authorization. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and, in the case of any patent applications filed with any office of any country or countries foreign to the United States, any officer of such country whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to ASSIGNEE and its successors, assigns, and other legal representatives in accordance with the terms of this Assignment.

3. Assignor's Warranty. ASSIGNOR covenants and agrees that ASSIGNOR has the full right to convey the entire right, title, and interest herein assigned by this Assignment and that ASSIGNOR has not executed and will not execute any assignment or other instrument in conflict with this Assignment.

4. Further Actions. ASSIGNOR further covenants and agrees that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, ASSIGNOR will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to ASSIGNOR regarding the Inventions, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the Inventions in ASSIGNEE, its

successors, legal representatives, and/or assigns, execute all divisional, continuation, continuation-in-part, reissue, reexamination, or any other applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

5. Authorization and Consent. ASSIGNOR hereby authorizes ASSIGNEE, or its attorneys or agents, to insert the correct Application Serial Number and Filing Date into this Assignment, if none is indicated on that date of ASSIGNOR's execution of this Assignment.

6. Governing Law. This Assignment and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California.

7. Severability. In the event that any clause, sub-clause or other provision contained in this Assignment shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

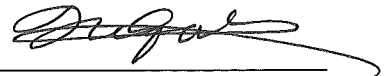
8. Counterparts. This Assignment may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

9. Headings; Construction. The headings to the clauses, sub-clauses and parts of this Assignment are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Assignment.

10. Entire Assignment. This Assignment supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Assignment and constitutes the entire understanding between the parties hereto.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, ASSIGNOR has executed this Assignment on the date indicated below.

Date: September 25, 2013 By: 
Fuqu Wu

CANADA)
) ss.
PROVINCE OF ONTARIO)

Before me, a Notary Public in and for said County and State, personally appeared Fuqu Wu, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 25 day of SEPTEMBER, 2013.


Notary Public

My Commission Expires: 2015 NOV 12 09:10 (Seal)

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, ASSIGNEE has executed this Assignment on the date indicated below.

FLEXTRONICS AP, LLC

By: [Signature]
Name: Chris Ricci
Title: Authorized Signatory

STATE OF CALIFORNIA)
) SS:
COUNTY OF Santa Clara

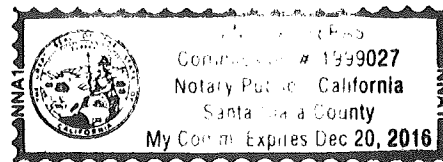
Before me, a Notary Public in and for said County and State, personally appeared Chris Ricci, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20 day of Dec, 2013.

[Signature]
Notary Public

My Commission Expires: 12/20/2016

(Seal)



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APPENDIX A

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|--------------------------------------------------------------------|----------------|-------------------|--------------------|
| 6583-417-PROV-3 | SmartTV | US | 61/804,942 | 03/25/2013 |
| 6583-417-PROV-4 | SmartTV | US | 61/804,998 | 03/25/2013 |
| 6583-417-PROV-5 | SmartTV | US | 61/804,971 | 03/25/2013 |
| 6583-417-PROV-6 | SmartTV | US | 61/804,990 | 03/25/2013 |
| 6583-417-PROV-7 | SmartTV | US | 61/805,003 | 03/25/2013 |
| 6583-417-PROV-9 | SmartTV | US | 61/805,030 | 03/25/2013 |
| 6583-417-PROV-8 | SmartTV | US | 61/805,053 | 03/25/2013 |
| 6583-417-PROV-10 | SmartTV | US | 61/805,027 | 03/25/2013 |
| 6583-417-PROV-11 | SmartTV | US | 61/805,042 | 03/25/2013 |
| 6583-417-PROV-12 | SmartTV | US | 61/805,038 | 03/25/2013 |
| 6583-454-PCT | Systems and Methods for Managing Data in an Intelligent Television | WO | PCT/US13/55340 | 08/16/2013 |
| 6583-471-PCN | On-Screen Settings Interaction For Interactive Television | CN | | 04/16/2013 |
| 6583-471-PCT | On-Screen Settings Interaction For Interactive Television | WO | PCT/US13/36678 | 04/16/2013 |
| 6583-480 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,506 | 08/17/2013 |
| 6583-481 | Global Panel | US | 13/970,374 | 08/19/2013 |
| 6583-481-PCT | Global Panel | WO | PCT/US13/55509 | 08/19/2013 |

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PATENT ASSIGNMENT

This Patent Assignment (the "Assignment") is made and entered into by and between **Robert Csiki** of 131 Major Button's Drive, Markham, Ontario L3P 3X7, Canada ("ASSIGNOR"), and **Flextronics AP, LLC** ("ASSIGNEE"), a Colorado limited liability company whose address is 6201 America Center Drive, San Jose, California 95002.

WHEREAS, ASSIGNOR has made certain inventions, including but not limited to, U.S. provisional patent applications, U.S. nonprovisional patent applications, PCT patent applications, foreign patent applications, and other inventions as set forth in Appendix A (collectively, "the Inventions"), and

WHEREAS, ASSIGNEE desires to acquire the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, the applications, and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to ASSIGNOR by ASSIGNEE or other good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. ASSIGNOR does hereby sell, assign, transfer, convey, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the subject matter of the Inventions, and to any continuation, continuation-in-part, division, renewal, extension, substitute, re-examination or reissue thereof or any legal equivalent in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under any international conventions and treaties, together with all claims for damages and other remedies by reason of past infringements of the Inventions, whether arising prior to or subsequent to the date of this Assignment, along with the right to sue for and collect such damages and other remedies for the use and benefit of ASSIGNEE and its successors, assigns, and other legal representatives.

2. Authorization. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and, in the case of any patent applications filed with any office of any country or countries foreign to the United States, any officer of such country whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to ASSIGNEE and its successors, assigns, and other legal representatives in accordance with the terms of this Assignment.

3. Assignor's Warranty. ASSIGNOR covenants and agrees that ASSIGNOR has the full right to convey the entire right, title, and interest herein assigned by this Assignment and that ASSIGNOR has not executed and will not execute any assignment or other instrument in conflict with this Assignment.

4. Further Actions. ASSIGNOR further covenants and agrees that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, ASSIGNOR will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to ASSIGNOR regarding the Inventions, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the Inventions in ASSIGNEE, its

successors, legal representatives, and/or assigns, execute all divisional, continuation, continuation-in-part, reissue, reexamination, or any other applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

5. Authorization and Consent. ASSIGNOR hereby authorizes ASSIGNEE, or its attorneys or agents, to insert the correct Application Serial Number and Filing Date into this Assignment, if none is indicated on that date of ASSIGNOR's execution of this Assignment.

6. Governing Law. This Assignment and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California.

7. Severability. In the event that any clause, sub-clause or other provision contained in this Assignment shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

8. Counterparts. This Assignment may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

9. Headings; Construction. The headings to the clauses, sub-clauses and parts of this Assignment are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Assignment.

10. Entire Assignment. This Assignment supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Assignment and constitutes the entire understanding between the parties hereto.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, ASSIGNOR has executed this Assignment on the date indicated below.

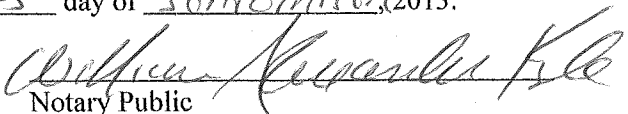
Date: Sept 25th 2013

By: 
Robert Csiki

CANADA)
) ss.
PROVINCE OF ONTARIO)

Before me, a Notary Public in and for said County and State, personally appeared Robert Csiki, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 25 day of SEPTEMBER 2013.

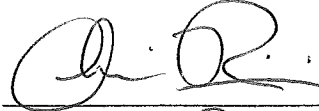

Notary Public

My Commission Expires: 2005 NOV 02 1705 (Seal)

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IN WITNESS WHEREOF, ASSIGNEE has executed this Assignment on the date indicated below.

FLEXTRONICS AP, LLC

By: 
Name: CHRIS RICCI
Title: Authorized Signatory

STATE OF CALIFORNIA)
) SS:
COUNTY OF Santa Clara)

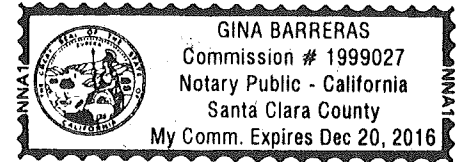
Before me, a Notary Public in and for said County and State, personally appeared Chris Ricci, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20 day of Dec, 2013.


Notary Public

My Commission Expires: 12/20/2016

(Seal)



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APPENDIX A

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|--------------------------------------------------------------------|----------------|-------------------|--------------------|
| 6583-454-PCT | Systems and Methods for Managing Data in an Intelligent Television | WO | PCT/US13/55340 | 08/16/2013 |
| 6583-496 | Sourcing EPG Data | US | 13/970,234 | 08/19/2013 |
| 6583-496-PCT | Sourcing EPG Data | WO | PCT/US13/55564 | 08/19/2013 |
| 6583-508 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,507 | 08/17/2013 |
| 6583-519 | EPG Data Functions | US | 13/970,243 | 08/19/2013 |
| 6583-519-PCT | EPG Data Functions | WO | PCT/US13/55567 | 08/19/2013 |
| 6583-520 | EPG Data Interface | US | 13/970,247 | 08/19/2013 |
| 6583-520-PCT | EPG Data Interface | WO | PCT/US13/55570 | 08/19/2013 |

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PATENT ASSIGNMENT

This Patent Assignment (the "Assignment") is made and entered into by and between **Eduardo Diego Torres Milano** of 629 Marley Road, Burlington, Ontario L7T 3R8, Canada ("ASSIGNOR"), and **Flextronics AP, LLC** ("ASSIGNEE"), a Colorado limited liability company whose address is 6201 America Center Drive, San Jose, California 95002.

WHEREAS, ASSIGNOR has made certain inventions, including but not limited to, U.S. provisional patent applications, U.S. nonprovisional patent applications, PCT patent applications, foreign patent applications, and other inventions as set forth in Appendix A (collectively, "the Inventions"), and

WHEREAS, ASSIGNEE desires to acquire the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, the applications, and any Letters Patents to be granted for the Inventions in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to ASSIGNOR by ASSIGNEE or other good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. ASSIGNOR does hereby sell, assign, transfer, convey, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Inventions listed in the attached Appendix A, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the subject matter of the Inventions, and to any continuation, continuation-in-part, division, renewal, extension, substitute, re-examination or reissue thereof or any legal equivalent in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under any international conventions and treaties, together with all claims for damages and other remedies by reason of past infringements of the Inventions, whether arising prior to or subsequent to the date of this Assignment, along with the right to sue for and collect such damages and other remedies for the use and benefit of ASSIGNEE and its successors, assigns, and other legal representatives.

2. Authorization. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and, in the case of any patent applications filed with any office of any country or countries foreign to the United States, any officer of such country whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to ASSIGNEE and its successors, assigns, and other legal representatives in accordance with the terms of this Assignment.

3. Assignor's Warranty. ASSIGNOR covenants and agrees that ASSIGNOR has the full right to convey the entire right, title, and interest herein assigned by this Assignment and that ASSIGNOR has not executed and will not execute any assignment or other instrument in conflict with this Assignment.

4. Further Actions. ASSIGNOR further covenants and agrees that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, ASSIGNOR will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the Inventions in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to ASSIGNOR regarding the Inventions, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the Inventions in ASSIGNEE, its

successors, legal representatives, and/or assigns, execute all divisional, continuation, continuation-in-part, reissue, reexamination, or any other applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

5. Authorization and Consent. ASSIGNOR hereby authorizes ASSIGNEE, or its attorneys or agents, to insert the correct Application Serial Number and Filing Date into this Assignment, if none is indicated on that date of ASSIGNOR's execution of this Assignment.

6. Governing Law. This Assignment and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California.

7. Severability. In the event that any clause, sub-clause or other provision contained in this Assignment shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

8. Counterparts. This Assignment may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.


9. Headings; Construction. The headings to the clauses, sub-clauses and parts of this Assignment are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Assignment.

10. Entire Assignment. This Assignment supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Assignment and constitutes the entire understanding between the parties hereto.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, ASSIGNOR has executed this Assignment on the date indicated below.


Date: 25 SEPTEMBER 2013

By: 
Eduardo Diego Torres Milano

CANADA)
PROVINCE OF ONTARIO) ss.

Before me, a Notary Public in and for said County and State, personally appeared Eduardo Diego Torres Milano, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 25 day of SEPTEMBER, 2013.


Notary Public

My Commission Expires: DOES NOT EXPIRE (Seal)

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, ASSIGNEE has executed this Assignment on the date indicated below.

FLEXTRONICS AP, LLC

By: [Signature]
Name: Chris Ricci
Title: Authorized Signatory

STATE OF CALIFORNIA)
) SS:
COUNTY OF Santa Clara

Before me, a Notary Public in and for said County and State, personally appeared Chris Ricci, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20 day of Dec, 2013.

[Signature]
Notary Public

My Commission Expires: 12/20/2016

(Seal)



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APPENDIX A

| SR File No. | Title | Country | Serial No. | Filing Date |
|--------------------|--------------------------------------------------------------------|----------------|-------------------|--------------------|
| 6583-417-PROV | SmartTV | US | 61/736,692 | 12/13/2012 |
| 6583-417-PROV-2 | SmartTV | US | 61/798,821 | 03/15/2013 |
| 6583-454-PCT | Systems and Methods for Managing Data in an Intelligent Television | WO | PCT/US13/55340 | 08/16/2013 |
| 6583-487-PCT | Reminder Dialog Presentation and Behavior | WO | PCT/CN2013/081639 | 08/16/2013 |
| 6583-491 | Application Panel Manager | US | 13/968,652 | 08/16/2013 |
| 6583-491-PCT | Application Panel Manager | WO | PCT/US13/55344 | 08/16/2013 |
| 6583-493 | Location-Based Context for UI Components | US | 13/968,709 | 08/16/2013 |
| 6583-493-PCT | Location-Based Context for UI Components | WO | PCT/US13/55371 | 08/16/2013 |
| 6583-498 | Live Television Application on Top of Live Feed | US | 13/968,969 | 08/16/2013 |
| 6583-498-PCT | Live Television Application on Top of Live Feed | WO | PCT/US13/55349 | 08/16/2013 |
| 6583-501 | Library and Resources for Third Party Apps for SmartTV | US | 13/969,777 | 08/19/2013 |
| 6583-501-PCT | Library and Resources for Third Party Apps for SmartTV | WO | PCT/US13/55542 | 08/19/2013 |
| 6583-507-PCT | Management of Program Information and Reminders | WO | PCT/CN2013/081630 | 08/16/2013 |
| 6583-510 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,508 | 08/17/2013 |
| 6583-511 | Systems and Methods for Managing Data in an Intelligent Television | US | 13/969,510 | 08/17/2013 |

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